Welcome to IJCAI 2015!

We are delighted to welcome you to the Twenty-Fourth International Joint Conference on AI (IJCAI-15).

The two years since IJCAI-13 in Beijing have been a tremendously exciting time for AI. Scarcely a week has passed without news items about new advances in AI research, or exciting new applications for AI research, in areas ranging from autonomous vehicles to social media. Researchers across the globe report huge interest in AI, particularly in areas like machine learning. But of course, this excitement has been tempered by concern from well-known scientists about the potential dangers posed by AI. We look forward to discussing all these issues with you throughout IJCAI-15.

The current intense interest in AI was reflected in an extraordinary number of submissions to the conference. The technical program of the conference broke IJCAI's previous record, attracting 1,996 submissions in total. After rigorous reviewing, some 571 papers (28.6 percent) were accepted for presentation at the conference. All accepted papers are included as full-length papers in the proceedings and are invited to present as posters. Authors of all papers are invited to give oral presentations, where a distinction is made between long talks and short talks based on the papers' quality, clarity, and potential relevance to a wider audience.

Besides the main technical track, we also introduced a number of special area tracks to allow the program committee to pay particular attention in identifying highly innovative papers in these areas. These are the Machine Learning Track, Knowledge Representation Track and Computational Sustainability Track. Track chairs were encouraged to be innovative in designing their programs. A new-problem paper type is introduced in the Machine Learning Track, for example, to allow researchers who report on novel AI and Machine Learning 'problems' to have a voice. Special 'integrated solution' sessions were also reserved for papers that address problems in machine learning while being integrated with other techniques in AI.

Of course, IJCAI would not be IJCAI without an extensive workshop and tutorial program, and we are delighted to have more than 40 workshops, on topics as diverse as AI in Space to Algorithmic Game Theory, and nearly 30 tutorials, from internationally renowned researchers.

The topic of "AI and the Arts" was designated as a special theme for IJCAI-15. As such, the conference includes a special track on this theme, with technical papers reviewed in the same was papers for the main tracks, as well as an exhibition/project demonstrations, and of course some AI and the Arts related activities throughout the week, which we hope will entertain and intrigue you. A key component of these activities is an exciting exhibition showing ongoing interactions between AI and the Arts. The exhibition will be held in the Centro Cultural Borges (close to the main conference site) from Saturday 25 July until 30 July 2015. The vernissage (with live performances) is on Sunday 26 July at 7 pm and the finissage on 30 July at 7 pm.

IJCAI-15 is the first time that the IJCAI conference has been held in South America, and we firmly believe Buenos Aires will be a fantastic venue. The city has enormous opportunities for sightseeing and other leisure activities. Take the time while you are here to enjoy a glass of justly famous Argentinian malbec wine, and to check out some of the endless shows and varied nightlife that the city has to offer. In terms of gastronomy, steak lovers are of course in for a treat, but whatever your taste, Buenos Aires will surely be able to accommodate it.

We trust you will also enjoy the social events planned for the main conference. We look forward to seeing you at the opening reception, in the Salón de Actos in the School of Law, which will be followed by a reception and unique performance by a Marching Band. The band will play tunes inspired by Latin rhythms and specifically written for the occasion – the lyrics are about the daily struggles of AI researchers. The conference banquet will be held at Señor Tango, and will include a range of typical Argentine dishes and an exclusive selection of wines, followed by a 90 minute tango show, by some of Argentina's leading exponents of the art. Tango reflects the heart and soul of Argentina, and we can think of no more fitting and enjoyable way to celebrate what we are sure will be a truly memorable IJCAI.

Guillermo Simari (Local Arrangements Chair)
Ricardo Oscar Rodriguez (Local Arrangements Chair)
Michael Wooldridge (Conference Chair)
Qiang Yang (Program Chair)

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Department of Computer Science, University of Oxford, UK

Program Chair

Qiang Yang
Hong Kong University of Science and Technology, Hong Kong

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IJCAI 2015 opening and reception

School of Law, Monday, July 27, 2015. 19:00-22:00 (Open from 18:30hs. on; opening ceremony starts at 19:00h)
Address: Av. Figueroa Alcorta 2263 (http://www.uba.ar/recorridos/derecho/derecho_fachada.html)
Free for IJCAI-15 attendees

The IJCAI-15 Opening Ceremony will begin at 19:00 hours on Salón de Actos in the School of Law and will be followed by a reception and unique performance by a Marching Band. Michael Wooldridge, IJCAI-15 Conference Chair, will chair the Opening Ceremony. During the ceremony, the following awards will be given: IJCAI-15 Donald E. Walker Distinguished Service Award, the IJCAI-15 Research Excellence Award, and the IJCAI/JAIR award. In addition, the following awards will be announced: the IJCAI-15 Computers and Thought Award, and the IJCAI-15 John McCarthy Award.
The first part of the ceremony will be brought to a close with a performance-based on AI music. Next, the Opening Ceremony will be turned into a Fiesta thanks to an appearance of the IJCAI-2015 Praise Marching Band. The band will play tunes inspired by Latin rhythms and specifically written for the occasion. The lyrics are about the daily struggles of AI researchers. Attendees will enjoy a lunch and taste typical Argentine wines.
The conference badge gives access to the Opening Ceremony. **DON'T FORGET YOUR BADGE!**
We will provide transportation from the Sheraton and W&T Venue. This shuttle bus service will start operating between 18:00 and 18:45. Attendees will return to the Sheraton by themselves.

IJCAI 2015 conference banquet

It will take place on Wednesday, July 29, 2015 at 20:30, at Señor Tango.
Free for IJCAI-15 attendees

We will provide return transportation to the venue shuttle buses from the Sheraton will start operating at 19:30.

Dinner will include typical Argentine dishes and an exclusive selection of wines.

After dessert, you will enjoy a one and a half hour tango show with a live orchestra, dancing, and professional singers. You will be witness to the evolution of the "Tango" through history (milonga, arrabalero and modern tango) with beautiful scenery and an incredible atmosphere. The show entertains all five senses: it is a lavish display of light, colour, and sound with state-of-the-art technology to enhance the most dazzling show in the history of tango. It was created, directed and produced by Fernando Soler; it boasts over forty artists on stage, and throughout the two-hour show, it goes from traditional tango - played by the orchestra of Maestro Ernesto Franco, who was Juan Darienzo's first bandoneon for 24 years, during the golden years - to the most contemporary Tango of the late Maestro Astor Piazzolla, played by the "Juventango" orchestra. The show includes performer twins Marcela and Fernanda Pereyra; and Sangre Andina, musical amusement in the hands of Coquena Lamas and his group, and has nine dancing couples who create individual and group choreographies, boasting impressive skills and impersonating renowned personalities tangoing to the appropriate music in their typical attire. Among them, "Escondite", a rendering of "Apache" tango, a European flamenco-inspired ballroom tango; and "Roxanne", the very first choreography to connect Tango with Hollywood, created and musicalized by Mariano Mores combining lyrics by Sting. The show ends with the performance of "Don't cry for Me Argentina", a second-nature anthem for our country. All artists on stage participate and their roles bear witness to our true national identity, and our deep love for the light blue-and-white national colors.

Dinner and Tango Show are included in the registration fee. You will need your banquet ticket to board the bus. Please don't forget your banquet ticket!

Student only reception

IJCAI-15 will hold a Student Reception on Thursday, July 30, 20:00-24:00 in TAZZ SOHO (Armenia 1744), an Excellent Entertainment Bar located a few meters away from the famous Plaza Armenia in Palermo Soho. This 3-level restaurant offers a variety of options to have fun. From comfortable sofas, private meeting rooms and 8 pool tables to a great dance-floor on the roof with the best music! Although all its bars are top quality, the best one is on the ground floor. It offers special menus for birthdays, meetings or events, ranging from pizza, Mexican food to more sophisticated and expensive cuisine.
We hope the reception may be an ideal venue for student to network with fellows students from all around the world, exchange experience, learn about research opportunities and enjoy a great moment strengthen the social links of their generation.
You will need your Student Reception ticket to enter to Tazz. Please don't forget your Student Reception ticket!

Exhibition

The Exhibits will be located in the San Telmo Room at 1st floor of Sheraton Convention Center.

Exhibit hours:
Wednesday, July 29: 10:00 - 17:00
Thursday, July 30: 10:00 - 17:00
Friday, July 31: 10:00 - 15:00

The IJCAI 2015 Exhibits Programme will provide companies and academic institutions an excellent way to reach the leading scientists and practitioners in artificial intelligence. Whether you want to showcase your intelligent technology services to the AI community, to make visible your position in the field, or provide conference participants with examples of the current uses, needs and opportunities for Artificial Intelligence, IJCAI-15 is the premier venue to accomplish these goals. The exhibition area will be co- located at coffee break area. Exhibitors with available booths are: Alibaba, Adobe, Baidu, bigML, Co-Invent, Essence, Facebook, Huawei, IBM, Insight, Medallia, Microsoft, Praise, Tencent, Yahoo, Elsevier, Springer, and IJCAI-17.

ARTE@IJCAI Exhibition

Centro Cultural Borges
Viamonte 525
Mon– Sat 10 a 21hs
Sun 12 a 21hs.

The theme of IJCAI 2015 is AI and the Arts, and this is realized through an invited talk, a music performance based on AI at the opening, a special track of accepted papers and demos, and an exhibition at the Borges Cultural Centre, one of the most renowned art centers of Buenos Aires. The exhibition is intended to show to the people of Buenos Aires as well as conference attendees the exciting interactions that have been taking place between AI and the Arts.

The artists contributing to this exhibition are:
1. Jon Mccormack (Australia):
   The Unknowable
2. Patrick Tresset (France):
   5 robots named Paul
3. Karl Sims (USA):
   Dual bodies
4. Olafur Eliasson (Germany):
   Look into the box
5. Annemarie Maes (Belgium):
   The scaffolded sound beehive
6. Alexander Berman and Valencia James (Sweden):
   Kinetic dialogues
7. Leo Nuñez (Argentina):
   Game of life

The exhibition will be held in the Centro Cultural Borges (close to the main conference site) from Saturday 25 July until 30 July 2015. The vernissage (with live performances) is on Sunday 26 July at 7 pm and the finissage on 30 July at 7 pm.

IJCAI 2015 Awards

The IJCAI Organization is proud to announce the IJCAI-15 Awards!

The IJCAI-15 Award for Research Excellence, the IJCAI John McCarthy Award, and the Computers and Thought Award are awarded by the IJCAI Board of Trustees, upon recommendation by the IJCAI-15 Awards Selection Committee, which consists of:

- Tom Dietterich, Oregon State University (USA)
- Craig Knoblock, University of Southern California, ISI (USA) (Chair)
- Hector Levesque, University of Toronto (CANADA)
- Peter Stone, University of Texas at Austin (USA), and
- Sebastian Thrun, Udacity, Google and Stanford University (USA).

The IJCAI Awards Selection Committee receives advice from members of the IJCAI-15 Awards Review Committee, who comment on the accuracy of the nomination material and provide additional information about the nominees. The IJCAI-15 Awards Review Committee is the union of the former Conference Chairs of IJCAI, the IJCAI-15 Advisory Committee, the Program Chairs of the last three IJCAI conferences, and the past recipients of the IJCAI Award for Research Excellence and the IJCAI Distinguished Service Award, with nominees excluded.

IJCAI–15 AWARD FOR RESEARCH EXCELLENCE

The Research Excellence award is given to a scientist who has carried out a program of research of consistently high quality throughout an entire career yielding several substantial results. Past recipients of this honor are the most illustrious group of scientists from the field of Artificial Intelligence.
They are: John McCarthy (1985), Allen Newell (1989), Marvin Minsky (1991), Raymond Reiter (1993), Herbert Simon (1995), Aravind Joshi (1997), Judea Pearl (1999), Donald Michie (2001), Nils Nilsson (2003), Geoffrey E. Hinton (2005), Alan Bundy (2007), Victor Lesser (2009, Robert Anthony Kowalski (2011), and Hector Levesque (2013).

The winner of the 2015 Award for Research Excellence is **Barbara Grosz**, Higgins Professor of Natural Sciences at the School of Engineering and Natural Sciences,Harvard University. Professor Grosz is recognized for her pioneering research in Natural Language Processing and in theories and applications of Multiagent Collaboration.

IJCAI–15 COMPUTERS AND THOUGHT AWARD

The Computers and Thought Award is presented at IJCAI conferences to outstanding young scientists in artificial intelligence. The award was established with royalties received from the book, Computers and Thought, edited by Edward Feigenbaum and Julian Feldman. It is currently supported by income from IJCAI funds. Past recipients of this honor have been: Terry Winograd (1971), Patrick Winston (1973), Chuck Rieger (1975), Douglas Lenat (1977), David Marr (1979), Gerald Sussman (1981), Tom Mitchell (1983), Hector Levesque (1985), Johan de Kleer (1987), Henry Kautz (1989), Rodney Brooks (1991), Martha Pollack (1991), Hiroaki Kitano (1993), Sarit Kraus (1995), Stuart Russell (1995), Leslie Kaelbling (1997), Nicholas Jennings (1999), Daphne Koller (2001), Tuomas Sandholm (2003), Peter Stone (2007), Carlos Guestrin (2009), Andrew Ng (2009),Vincent Conitzer (2011), Malte Helmert (2011), and Kristen Grauman (2013).

The winner of the 2015 IJCAI Computers and Thought Award is **Ariel Procaccia**, Assistant Professor at the Computer Science Department, Carnegie Mellon University. Professor Procaccia is recognized for his contributions to the fields of computational social choice and computational economics, and for efforts to make advanced fair division techniques more widely accessible.

IJCAI–15 JOHN MCCARTHY AWARD

The Trustees of the International Joint Conferences on Artificial Intelligence (IJCAI) are pleased to announce the John McCarthy research award. This award is intended to recognize established mid-career researchers that have built up a major track record of research excellence in artificial intelligence. Recipients of the award will have made significant contributions to the research agenda in their area and will have a first-rate profile of influential research results.
The award is named for John McCarthy (1927-2011), who is widely recognized as one of the founders of the field of artificial intelligence. As well as giving the discipline its name, McCarthy made fundamental contributions of lasting importance to computer science in general and artificial intelligence in particular, including time-sharing operating systems, the LISP programming languages, knowledge representation, common-sense reasoning, and the logicist paradigm in artificial intelligence.
The award was established with the full support and encouragement of the McCarthy family.

The winner of the 2015 inaugural John McCarthy Award is **Bart Selman** , Professor at the Department of Computer Science, Cornell University. Professor Selman is recognized for expanding our understanding of problem complexity and developing new algorithms for efficient inference.

DONALD E. WALKER DISTINGUISHED SERVICE AWARD

The IJCAI Distinguished Service Award was established in 1979 by the IJCAI Trustees to honor senior scientists in AI for contributions and service to the field during their careers. Previous recipients have been: Bernard Meltzer (1979), Arthur Samuel (1983), Donald Walker (1989), Woodrow Bledsoe (1991), Daniel G. Bobrow (1993), Wolfgang Bibel (1999), Barbara Grosz (2001), Alan Bundy (2003), Raj Reddy (2005), Ronald J. Brachman (2007), Luigia Carlucci Aiello (2009), Raymond C. Perrault (2011), and Wolfgang Wahlster (2013).

At IJCAI-15, the Donald E. Walker Distinguished Service Award will be given to **Anthony G. Cohn**, Professor of Automated Reasoning at the University of Leeds. As a pioneering researcher in Knowledge Representation and Reasoning, Professor Cohn is recognized for his substantial contributions, as well as his outstanding service to the international, European and UK AI communities, including terms as President of IJCAI, ECCAI, KR Inc., and AISB, and as Editor-in-chief of the AI journal, where he made significant contributions to the success of the journal and to the wider dissemination of AI into the scientific community.

IJCAI-JAIR Best paper prize

Tuesday, July 28th
10:20-10:40 in Room LB2

The 2015 IJCAI-JAIR Best Paper Prize is awarded to an outstanding paper published in JAIR in the preceding five calendar years.
Funding for this award is provided by the IJCAI organisation.

The LAMA Planner: Guiding Cost-Based Anytime Planning with Landmarks Silvia Richter and Matthias Westphal JAIR volume 39, pages 127-177

This paper gives a comprehensive description and analysis of the award winning LAMA planner. LAMA's use of landmarks in combination with cost-sensitive heuristics is presented, and the performance of the planner in different configurations is evaluated and analyzed in a detailed and insightful experimental study. This excellently written paper has been very influential and has helped to establish the use of landmarks as a key technique in classical planning.

ECCAI Thesis Award

Tuesday, July 28th
11:10-12:10 in Room C

The 2014 ARTIFICIAL INTELLIGENCE DISSERTATION AWARD sponsored by ECCAI, the European Coordinating Committee for Artificial Intelligence goes to Dr Benjamin Kaufmann, from the University of Potsdam, for his thesis "High Performance Answer Set Solving". This Award includes a certificate signed by the ECCAI Chair and 1.500 Euros.

AI Journal Awards

AI Journal Classic Paper Award:
"Fusion, propagation, and structuring in belief networks" by Judea Pearl

AI Journal Prominent Paper Award:
"Label ranking by learning pairwise preferences" by Eyke Hüllermeier, Johannes Fürnkranz, Weiwei Cheng and Klaus Brinker

Conference at a glance

Day	Morning	Afternoon	Evening
25-July	Registration Workshops Tutorials	Registration Workshops Tutorials	
26-July	Registration Workshops Tutorials	Registration Workshops Tutorials	
27-July	Registration Workshops Tutorials Doctoral Consortium	Registration Workshops Tutorials Doctoral Consortium	Speed Dating and Opening Ceremony
28-July	Registration IJCAI technical program (Computers and Thought award talk, papers, posters) AI&Arts Demos IJCAI 2015 Distinguished Papers Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Registration IJCAI technical program (invited talks, papers, posters) AI&Arts Demos Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Games Night
29-July	Registration IJCAI technical program (papers, posters) AI&Arts Demos Industry Track Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Registration IJCAI technical program (invited talks, papers, posters, panel on 'Future of AI') AI&Arts Demos Industry Track Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Banquet
30-July	Registration IJCAI technical program (papers, posters) AI&Arts Demos Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Registration IJCAI technical program (invited talks, papers, posters) AI&Arts Demos IJCAI Community Meeting Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Student Reception
31-July	Registration IJCAI technical program (John McCarthy Award Talk, papers, posters) AI&Arts Demos Best Papers in Sister Conferences Track Journals Track Angry Birds Award, Robot Exhibition Video Competition	Registration IJCAI technical program (invited talks, papers, posters, Panel) AI&Arts Demos Best Papers in Sister Conferences Track Journals Track Angry Birds Award Robot Exhibition Video Competition Closing Event	

Events/Activities included in the registration fee

29 tutorials
Opening reception
Banquet
Exhibition program
Special Events
Angry Birds AI competition

Invited speakers

USING CONSTRAINT-BASED SEARCH TO SCHEDULE SCIENCE CAMPAIGNS FOR THE ROSETTA ORBITER

Dr. Steve Chien
The Jet Propulsion Laboratory, California Institute of Technology

Friday, July 31
14:00-15:00
Libertador Plenary Room: LB

TOWARDS GENERAL ARTIFICIAL INTELLIGENCE

Dr. Julien Cornebise
Google DeepMind, Towards General Artificial Intelligence

Tuesday, July 28
14:00-15:00
Retiro Pleanry Room: R

IN KNOWLEDGE WE TRUST

Dr. Evgeniy Gabrilovich
Google

Wednesday, July 29
14:00-15:00
Libertador Plenary Room: LB

CONSCIOUSNESS IN BIOLOGICAL AND ARTIFICIAL BRAINS

Christof Koch
Allen Institute for Brain Science in Seattle

Tuesday, July 28
14:00-15:00
Retiro Plenary Room: R

PROGRAMMING AGENTS VIA REWARDS

Michael L. Littman
Computer Science at Brown University

Friday, July 31
14:00-15:00
Libertador Pleanry Room: LB

ART IS A SYSTEM

Jon McCormack
Faculty of Information technology at Monash University in Melbourne

Thursday, July 30
14:00-15:00
Retiro Pleanry Room: R

MAKING INTELLIGENT MOBILE SERVICE ROBOTS A REALITY

Manuela M. Veloso
Computer Science Department at Carnegie Mellon University

Thursday, July 30
14:00-15:00
Libertador Pleanry Room: LB

AI AND ROBOTICS: TALES FROM KIVA SYSTEMS

Pete Wurman
Kiva Systems, the Boston-based company

Wednesday, July 29
14:00-15:00
Retiro Pleanry Room: R

Special events

IJCAI-15 Panel: who speaks for AI?

Wednesday
July 29th
15:10-16:30
Room Catalinas

Panelists:
– Maria Gini (Minnesota)
– Barbara Grosz (Harvard)
– Francesca Rossi (Padua)
– Stuart Russell (Berkeley)
– Manuela Veloso (CMU)

Chair:
– Michael Wooldridge (Oxford)

These are boom times for AI. Articles celebrating the success of AI research appear frequently in the international press. Millions of people every day routinely use AI-based systems that the founders of our field would hail as miraculous. And there is a palpable sense of excitement about impending applications of AI technologies. But while all this is cause for celebration, it could be argued that the discipline of AI is fragmented and largely uncoordinated – and that the entire AI community suffers as consequence.

We have a bewildering array of different organisations at national and international level representing us (AAAI, IJCAI, ECCAI, PRICAI, KR, ...), and a byzantine collection of specialised conferences and journals, with very little coordination or communication between them. The results are obvious. Researchers in distinct sub-fields often work in silos, unaware of work that is going on in other sub-fields of AI, and the development of the field is hindered by endless fragmentation.

Moreover, in the public arena, the lack of any authoritative voice for AI creates a vacuum, where ill-informed speculation about the potential of AI is rife, and attention-seeking claims in the popular press receive unwarranted attention, with nobody in a position to speak for the field, and give an authoritative, informed, and balanced response. In this panel, we want to discuss these issues, and how best we, as AI researchers, can address them.

The panelists are invited to present their views on this subject, and to constructively discuss how we, as the AI research community, can best move forward.

To motivate the discussion, some questions for the panel are as follows:

– Is it possible to de-fragment the AI community? For example, could NIPS and IJCAI ever be seen as companion events, or is the nature of our field such that fragmentation is inevitable?

– What kind of professional organisation would work best for the field of AI? (Member organisation a la AAAI, ACM, or other...?)

– What public activities should an AI professional association undertake (beyond the scientific mission of organising conferences etc)? Press releases on AI? Responding to ill-informed pronouncements about AI?

– What role should we as individual AI researchers, and our AI associations play in informing public opinion, for example about the future benefits or potential existential risks that AI presents?

IJCAI15 Academic Speed Dating

Monday,
July 27
17:00-18:30 (just before to go to the conference reception)
Salón de Actos. Ground floor at New Building of Facultad de Ciencias Económicas

Meet IJCAI attendees from senior researchers to student newcomers! It surely will be a great opportunity to network, and to receive or give mentoring and career advice. Doors open at 5:00 PM sharp. There will be no admittance after 5:10 PM, and admittance is on a first-come basis. One lucky participant will win a free Nexus 7 in the door raffle.

IJCAI15 Games night

Tuesday
July 28
19:30- 21:30
Sheraton, Room Golden Horn

Come to spend an evening playing games with other IJCAI participants at the new proposal of IJCAI Games Night. There will be AI-themed games organized with prizes to be won for the lucky. Bring your own games to play afterward.

AI Non-technical Talks Track

Tuesday to Friday
July 28–31
14:00-15:00
Room C Tuesday and Wednesday, Room GH Thursday and Friday

– Tuesday
"The Economic Implications of Machine Intelligence: Lessons from the Second Machine Age", Erik Brynjolfsson (remotely). We should be optimistic about the future because technological progress, 'the only free lunch that economists believe in,' is accelerating quickly past our intuitions and expectations. But we should also be mindful of our values and our choices: as technology races ahead, it may leave a lot of people, organizations and institutions behind.

– Wednesday
"Killer robots, the end of humanity, and all that: What should a good AI researcher do?" Stuart Russell. Hear an update on the campaign to ban lethal autonomous weapons, as well as the fears that AI poses an existential threat to mankind.

– Thursday
"100 year AI project", Barbara Grosz, Chair of the AI100 Standing Committee. The One Hundred Year Study on Artificial Intelligence, or AI100, is a 100-year effort to study and anticipate how the effects of artificial intelligence will ripple through every aspect of how people work, live and play.

– Friday
"Panel on Countering Discrimination". This interactive panel will explore how different communities within AI face discrimination and how we might counter this. Please come, share and learn.

Press conference

Every day
8:00-8:30
Ombú 2nd floor

IJCAI Fellow / Student Lunches

Tuesday to Friday
July 28–31
Lunch time.
For the first time in an IJCAI, we are providing an opportunity for students to chat with an AAAI or ECCAI Fellow over an informal lunch during the conference. Students should meet their designated Fellow at the onsite registration desk on their assigned day.

Woman's breakfast

Tuesday
July 27
8:00-8:30

A networking breakfast will be offered on a place TBA for an informal discussion on issues facing women in AI and CS, with particular emphasis in possible solutions, tying up with themes discussed in the workshop Women in IA and CS.

Panel: Rethinking Turing Test

Friday, July 31, 10:40-12:10
Room R1

The Turing test was considered a grand goal to be achieved by generations of Artificial Intelligence researchers. It has helped inspire many new ideas and has also been the subject of many debates. Now over 60 years old, we wish to take a fresh look at the test given the current surge of interest and achievement in artificial intelligence, examining its origin and projecting beyond the horizon. The panel consists of researchers with different perspectives on what artificial intelligence has achieved so far and what more needs to be done. In particular, the debate will be centered on whether the Turing test will continue to serve as the signpost for developing intelligent machines, or perhaps other candidates are emerging to serve that purpose.

General tutorial/workshop timetable

Tutorials and Workshops timetable	
8:00–8:45	Registration
8:45–10:30	Morning sessions
10:30–11:00	Coffee break
11:00–12:45	Morning sessions
12:45–13:45	Lunch*
13:45–15:30	Afternoon sessions
15:30–16:00	Coffee break
16:00–17:45	Afternoon sessions

* There are many nice and affordable restaurants near the venue. Please, consult the recommendations included in the IJCAI2015 package.

Tutorial program

TRACK 1: AGENTS AND DECISION MAKING		
	Title	Tutors
T-5 (HD)	Automated composition and agent programming	Giuseppe De Giacomo, Fabio Patrizi and Sebastian Sardina
T-6 (HD)	Multi-agent programming	Olivier Boissier, Rafael H. Bordini, Jomi Fred Hübner, Alessandro Ricci, and Jaime Simao Sichman
T-12 (HD)	Crowd computing	Mark Klein and Ana Cristina B. Garcia
T-19 (FD)	Diffusion in social networks	Paulo Shakarian
T-15 (HD)	Multi-objective decision making	Shimon Whiteson and Diederik M. Roijers

TRACK 2: KNOWLEDGE REPRESENTATION AND REASONING		
	Title	Tutors
T-2 (FD)	Argumentation	Federico Cerutti
T-3 (HD)	Logic Programming	Sergio Greco and Cristian Molinaro
T-7 (HD)	Temporal Logic	Jose Aguilar
T-10 (HD)	Constraint logic programming	Roman Bartak
T-18 (FD)	Answer set programming	Martin Gebser, Roland Kaminski, Javier Romero, and Torsten Schaub
T-24 (HD)	Tweety system	Matthias Thimm
T-26 (FD)	Logic-based Merging	Ramon Pino Pérez

TRACK 3: REASONING UNDER UNCERTAINTY		
	Title	Tutors
T-8 (HD)	Combinatorial optimization in graphical models	Rina Dechter, Radu Marinescu, Alexander Ihler, Lars Otten
T-4 (HD)	Probabilistic programming	Luc De Raedt and Angelika Kimmig
T-22 (HD)	Sensitivity Analysis in Graphical Models	Cassio de Campos, Alessandro Antonucci, and Giorgio Corani

TRACK 4: SEMANTIC WEB AND KNOWLEDGE ENGINEERING		
	Title	Tutors
T-11 (HD)	Foundations of Web Personalization and Recommender Systems	Jill Freyne and Shlomo Berkovsky
T-20 (HD)	Internet of things	Munindar P. Singh and Amit K. Chopra
T-23 (HD)	Formal Concept Analysis	Sergei O. Kuznetsov and Amedeo Napoli
T-28 (HD)	Collaborative Knowledge	Nada Matta, Jason DAI and Francois Rauscher

TRACK 5: NATURAL LANGUAGE PROCESSING		
	Title	Tutors
T-14 (HD)	Evolutionary semantics for language grounding in robotics	Luc Steels
T-17 (HD)	Natural language understanding	Nicolae Duta
T-25 (HD)	Visual Text Analytics	Evangelos Milios and Axel Soto

TRACK 6: MACHINE LEARNING		
	Title	Tutors
T-9 (HD)	Lifelong machine learning	Zhiyuan Chen and Bing Liu
T-27 (HD)	Weakly Supervised Classification Problems	Jose A. Lozano, I. Inza, and J. Hernandez-Gonzalez
T-29 (FD)	System, algorithm, and theory foundations of scalable machine	Eric P. Xing and Qirong Ho

TRACK 7: AI APPLICATIONS		
	Title	Tutors
T-1 (HD)	Smart cities	Biplav Srivastava
T-16 (FD)	Musical metacreation	Philippe Pasquier, Arne Eigenfeldt, Oliver Bown
T-21 (HD)	Context awareness	Juan Carlos Augusto

Tutorials' location and dates

	Room	Morning	Afternoon
Saturday, July 25th	460	T26	
	465	T16	
	430	T9	T10
	435	T3	T5
	436	T15	T20
	438	T11	
Sunday, July 26th	430	T29	
	435	T19	
	436	T2	
	438	T4	T24
	460	T28	T23
	465	T14	T22
Monday, July 27th	430	T18	
	460	T8	T1
	435	T6	T7
	436	T17	T12
	465		T27
	438	T21	T25

Workshop program

	Title	Date	Room
W1 + W37	Joint Workshop on Preferences and Personalization	Full day, July 27	440
W2	The Fourth IJCAI International Workshop on Graph Structures for Knowledge Representation and Reasoning (GKR 2015)	Full day, July 25	440
W3	Behavioral, Economic and Computational Intelligence for Security	Full day, July 25	442
W4	Third International Workshop on Theory and Applications of Formal Argumentation (TAFA-15)	One and a half days, July 25-26	445
W5	Computer Games Workshop at IJCAI 2015	Full day, July 26	442
W6	Workshop at IJCAI 2015 "What can FCA do for Artificial Intelligence?"	Full day, July 25	443
W7	AI in Space	One and a half days, July 25-26	446
W8	International Workshop on Planning and Scheduling for Space (IWPSS)	One and a half days, July 26-27	446
W9	Worskshop on Synergies between Multiagent Systems, Machine Learning, and Complex Systems	Full day, July 27	442
W10	2nd International Workshop on Smart Simulation and Modelling for Complex Systems (SSMCS2015)	Full day, July 25	452
W11	Advances in Bioinformatics and Artificial Intelligence : Bridging the Gap	Full day, July 27	443
W12	General Intelligence in Game-Playing Agents	Full day, July 27	458
W13	Ontologies and logic programming for query answering	Full day, July 25	448
W14	Proposal of Chance Discovery, Data Synthesis, Curation and Data Market	Full day, July 26	440
W15 + W40	Replicability and Reproducibility in Natural Language Processing: adaptive methods, resources and software.	Full day, July 26	448
W16	Second International Workshop on Defeasible and Ampliative Reasoning (DARe)	Full day, July 27	457
W17	Hybrid Reasoning	Full day, July 26	443
W19	10th International Workshop on Artificial Intelligence Techniques for Ambient Intelligence (AITAmI'15)	Afternoon, July 26	452
W20 + W36	Coordination, Organizations, Institutions and Norms in Agent Systems (COIN@IJCAI 2015)	Full day, July 26	450
W22	10th International Workshop on Neural-Symbolic Learning and Reasoning (NeSy'15)	Full day, July 27	456
W23 + W26	Modular Ontologies, Belief Change and Non Monotonic Reasoning in Ontologies and Databases.	Full day, July 26	453
W24	IJCAI-15 workshop on innovative applications of game theory and market design	Full day, July 26	455
W25	WL4AI'15: Weighted Logics for Artificial Intelligence	Full day, July 27	453
W28 + W35	Cognitive Knowledge Acquisition, Cognitive Computing and Applications for Augmented Human Intelligence	Full day, July 25	450
W29	Workshop on Social Influence Analysis (SocInf'2015)	Full day, July 27	455
W30	Women in AI and CS	Morning, July 26	452
W31	Formal Ontologies for Artificial Intelligence (FOfAI)	Full day, July 27	452
W34	Fuzzy Logic in AI	Full day, July 25	453
W38	Artificial Intelligence for Knowledge Management	Full day, July 27	450
W39	Spatio-Temporal Dynamics	Full day, July 26	456
W41	IJCAI-15 Workshop on Algorithmic Game Theory	Full day, July 27	445
W42	AI and Feedback	Morning, July 26	457
W43	3rd Workshop on Heterogeneous Information Network Analysis (HINA)	Full day, July 25	455
DC	Doctoral Consortium	Full day, July 27	448

Workshops' location

	25th July *morning*	25th July *afternoon*	26th July *morning*	26th July *afternoon*	27th July *morning*	27th July *afternoon*
W1+W37					Room 440	
W2	Room 440					
W3	Room 442					
W4	Room 445					
W5			Room 442			
W6						
W7	Room 446					
W8				Room 446		
W9					Room 442	
W10	Room 452					
W11					Room 443	
W12					Room 458	
W13	Room 448					
W14			Room 440			
W15+W40			Room 448			
W16					Room 457	
W17			Room 443			
W19				Room 452		
W20+W36			Room 450			
W22					Room 456	
W23+W26			Room 453			
W24			Room 455			
W25					Room 453	
W28+W35	Room 450					
W29					Room 455	
W30			Room 452			
W31					Room 452	
W34	Room 453					
W38					Room 450	
W39			Room 456			
W41					Room 445	
W42			Room 457			
W43	Room 455					
DC					Room 448	

Sessions and posters

The IJCAI technical program consists of both oral presentations by accepted authors and poster presentations during the half day of the presentations. The posters of each author are required to put up their posters before each half day starts. They will also be present to discuss their posters at breaks with the audience. We hope both the oral presentations and the posters will give the attendees a full picture of the scientific advances of AI.

Doctoral Consortium

July 27, 2015
08:45
Room 448 (New Building – Facultad de Ciencias Económicas)

The doctoral consortium at IJCAI provides an opportunity for Ph.D. students to discuss their research interests and career objectives with established researchers in AI, network with other participants, and receive mentoring about career planning and career options. The doctoral consortium will expose students to different areas of research within AI and help building professional connections within the international community of AI researchers. Below there is a tentative schedule for activities.

Timetable	Activity
7:30 – 8:45	Registration
8:45 – 9:00	Introduction
9.00 – 10:00	Invited Talk
10:00 – 10:30	Poster advertisements
10:30 – 11:00	Coffee Break
11:00 – 11:45	Posters
11:45 – 12:45	Career Panel
12:45 – 14:00	Lunch
14:00 – 15.30	Invited Talk: Gabriela Llaneza
15:00 – 15:30	Poster advertisements
15:30 – 16:00	Coffee Break
16:00 – 17:00	Posters
17:00 – 17.45	Wrapping Up

IJCAI 2015 Distinguished Papers

July 28, 2015
9:40-10:40
Room GH

IJCAI-2015 Distinguished Paper Award
- Recursive Decomposition for Nonconvex Optimization
Abram L. Friesen and Pedro Domingos
(Main Track #75)

- Bayesian Active Learning for Posterior Estimation
Kirthevasan Kandasamy, Jeff Schneider, Barnabas Poczos
(ML Track #112)

IJCAI-2015 Honorable Mention
- Reasonable Highly Expressive Query Languages
Pierre Bourhis, Markus Krötzsch, and Sebastian Rudolph
(KR Track#297)

Repeat Buyers Prediction Competition

IJCAI is pleased to announce a large-scale machine learning competition, hosted by Alibaba Group, a gold sponsor. This competition aims to promote applications of advanced techniques from AI research to real-world problems. Contestants will have access to vast amount of data provided by Tmall.com, the largest B2C platform in China. Top three winners will be invited to present their results at an IJCAI workshop and get a chance to test their algorithms online.

In April 2015, participants all over the world was invited to play with real transaction data from Tmall.com. The goal was to apply advanced and sophisticated machine learning and data mining techniques to predict which shoppers would become repeat buyers after sales promotion. The top 3 teams may present their solutions at the IJCAI workshop *"Social Influence Analysis"* (Afternoon of Monday July 27, Room 455). In addition, there are a lot of prizes.

AI Video Competition

IJCAI 2015 is pleased to continue the AI Video Competition that was an integral part of the IJCAI technical programs from IJCAI-89 until IJCAI-97 and reinstated in 2011. A total of 14 submissions were accepted and will be screened in common areas during the conference. Additionally, a number of awards will be given to the best videos in several categories. Thus, awards will be given to the best long video, best short video, best application video, most entertaining video, most educational video, most societally beneficial video, and best robotics video.

The accepted videos are:

The Kognit Storyboard: Cognitive Models and Mixed Reality for Dementia Patients
Daniel Sonntag (DFKI); Marina Böllig (HBK); Martha Bayer (HBK); Muriel Serf (HBK).

Practice and Performance Analysis Inspiring Social Education
Josep Lluis Arcos (IIIA-CSIC); Harry Brenton (Goldsmiths University of London); Ismel Brito Rodriguez (IIIA-CSIC); Anna Enciso (IIIA-CSIC); Marco Gillies (Goldsmiths University of London); Patricia Gutierrez (IIIA-CSIC); Mark d'Inverno (Goldsmiths University of London); Dave de Jonge (IIIA-CSIC); Maria Krivenski (Goldsmiths University of London); Lissette Lemus (IIIA-CSIC); Johan Loeckx (VUB); Ramon Lopez de Mantaras (IIIA-CSIC); Daniel Martin Martinez (Sony CLS); Nardine Osman (IIIA-CSIC); François Pachet (Sony CLS); Mathieu Ramona (Sony CLS); Bruno Rosell (IIIA-CSIC); Tatiana Schofield (Goldsmiths University of London); Joan Serrà (IIIA-CSIC); Carles Sierra (IIIA-CSIC); Luc Steels (VUB); Matthew Yee-King (Goldsmiths University of London).

Deep Neural Networks are Easily Fooled: High Confidence Predictions for Unrecognizable Images
Anh Nguyen (University of Wyoming); Jason Yosinski (Cornell University); Jeff Clune (University of Wyoming).

Neural modularity helps organisms evolve to learn new skills without forgetting old skills
Kai Olav Ellefsen (University of Science and Technology, Trondheim); Jean-Baptiste Mouret (Sorbonne Université UPMC Univ Paris VI); Jeff Clune (University of Wyoming).

Unshackling Evolution: Evolving Soft Robots with Multiple Materials and a Generative Encoding
Nick Cheney (Cornell University); Robert MacCurdy (Cornell University); Jeff Clune (University of Wyoming); Hod Lipson (Cornell University).

ObViz: Opinion-balanced News Delivery
Claudiu Musat (EPFL); Maxime Darcot (EPFL); Boi Faltings (EPFL); Audrey Loeffel (EPFL); Gaylor Bosson (EPFL); Alexandru Ardelean (EPFL); Marina Boia (EPFL).

Learning of Human Motion Feedback with Neural Self-Organization
Florian von Stosch (University of Hamburg); German Parisi (University of Hamburg); Sven Magg (University of Hamburg); Stefan Wermter (University of Hamburg).

Intelligent Agent Supporting Human-Multi-Robot Team Collaboration
Ariel Rosenfeld (Bar-Ilan University); Oleg Maksimov (Bar-Ilan University); Sarit Kraus (Bar-Ilan University).

Humanoidly Speaking – Learning about the world and language with a humanoid friendly robot
Xavier Hinaut (University of Hamburg); Johannes Twiefel (University of Hamburg); Marcelo Borghetti Soares (University of Hamburg); Pablo Barros (University of Hamburg); Luiza Mici (University of Hamburg); Stefan Wermter (University of Hamburg).

Can you play that? A humanoid robot actively learning how to play an unknown musical instrument
Arturo Ribes Sanz (IIIA-CSIC); Jesus Cerquides (IIIA-CSIC); Ramon Lopez de Mantaras (IIIA-CSIC); Yiannis Demiris (Imperial College London).

Goal Oriented Teachable Agent in Virtual Learning Environment
Ailiya Borjigin (Nanyang Technological University); Chunyan Miao (Nanyang Technological University); Zhiqi Shen (Nanyang Technological University); Han Yu (Nanyang Technological University); Su Fang Lim (Nanyang Technological University); Toh Hsiang Benny Tan (Nanyang Technological University); Zeng Zhiwei (Nanyang Technological University); Yuxi Guo (Nanyang Technological University); Simon Fauvel (Nanyang Technological University); Yang Qiu (Nanyang Technological University); Kah Hoe Pang (Nanyang Technological University); Jun Ji (Nanyang Technological University).

Smooth Handling of Human Interrupts in Team Oriented Plans
Nathan Brooks (Carnegie Mellon); Paul Scerri (Platypus); Alessandro Farinelli (University of Verona); Nicolo' Marchi (University of Verona); Masoume Raeissi (University of Verona).

Autonomous Multi-Vehicle Coordination
James Guo Ming Fu (Singapore-MIT Alliance for Research and Technology); Xiaotong Shen (Nanyang Technological University); Hans Andersen (Nanyang Technological University); Wei Liu (Nanyang Technological University); Scott Pendleton (Nanyang Technological University); Baoxing Qin (Singapore-MIT Alliance for Research and Technology); Zhuang Jie Chong (Singapore-MIT Alliance for Research and Technology); Cody Kamin (Singapore-MIT Alliance for Research and Technology); Mark Adam Ang (Singapore-MIT Alliance for Research and Technology); Tawit Uthaicharoenpong (Singapore-MIT Alliance for Research and Technology); Zhiyong Weng (Singapore-MIT Alliance for Research and Technology); Mengdan Feng (Nanyang Technological University); Marcelo Ang (Nanyang Technological University); Daniela Rus (MIT); Emilio Frazzoli (MIT).

Multi-vehicle Motion Coordination Using V2V Communication
Xiaotong Shen (Nanyang Technological University); James Guo Ming Fu (Singapore-MIT Alliance for Research and Technology); Scott Pendleton (Nanyang Technological University); Wei Liu (Nanyang Technological University); Hans Andersen (Nanyang Technological University); Zhuang Jie Chong (Singapore-MIT Alliance for Research and Technology); Baoxing Qin (Singapore-MIT Alliance for Research and Technology); Cody Kamin (MIT); Mark Adam Ang (Singapore-MIT Alliance for Research and Technology); Tawit Uthaicharoenpong (Singapore-MIT Alliance for Research and Technology); Zhiyong Weng (Singapore-MIT Alliance for Research and Technology); Mengdan Feng (Nanyang Technological University); Marcelo Ang (Nanyang Technological University); Daniela Rus (MIT); Emilio Frazzoli (MIT).

Angry birds AI competition

Room Ombú 2nd Floor. Sheraton Convention Center
July 29-30, 2015. 9:00-18:00
Near Registration Desk Sheraton Convention Center
July 31, 2015. 10:00-18:00

The goal of the Angry Birds AI Competition is to build AI agents that can play the popular game "Angry Birds" as good as the best human players. In qualification rounds on July 29, the agents who qualify for the final rounds on July 30 will be determined. The highlight will be the Grand Final of the best AI agents at 18:00 on July 30. During the competition, there will also be a number of paper presentations. Further details and a complete schedule can be found at http://aibirds.org.

This year for the first time there will be a new competitive track where agents play the same levels with alternating shots. The agent scoring the winning shot gets all the points, but agents can bid points for the right of first or second shot.

In the Angry Birds' Man vs Machine Challenge on July 31, IJCAI participants and the general public have the chance to challenge the winning AI agents to see if humans are still better at playing Angry Birds than AI. Human players can compete from 10:00 onwards. The best AI agents will then play the same game levels at the final match at 18:00. The winner of the challenge, man or machine, will be awarded with a prize of USD 250. Registration for the Man vs. Machine Challenge opens at 10:00 on July 28 at http://aibirds.org.

Best Papers in Sister Conferences Track

In continuation of the tradition started at IJCAI 2011, this track celebrates excellence in the field by featuring 15 presentations of award-winning papers from AI-related conferences. The track will run throughout the whole technical program.

The best papers that will be presented at IJCAI 2015 are from the following conferences:
AAMAS 2013, AAMAS 2014, HCOMP 2014, ICAPS 2014, ICCBR 2014, KR 2013, KR 2014, RecSys 2014, RR 2013, SoCS 2014, UAI 2014, and UMAP 2014.

Journal Track

July 28-31, 2015
Within the main program, various rooms (papers tagged "Journal Track")

For the third time, throughout the technical program, IJCAI 2015 has a special track including 12 presentations of research results that have been published in the AI Journal or JAIR, ACM TIST, ACM TiiS, IEEE Intelligent Systems and KRR in 2013 or 2014 and have never been presented at a conference before. This track is intended to give this work exposure to a large AI audience in a highly interactive setting. These papers will also be presented as posters and are accompanied by a 4-page extended abstract in the conference proceedings.

Closing event

July 31, 2015
18:30-20:00
Room LB

The closing event will include the award ceremony for the Angry Birds competitions, as well as the Best Presentation Award and the Best Poster Award. Moreover, you will listen to the plans for IJCAI 2016 in New York, USA. You will then be able to say goodbye to all your friends and colleagues while enjoying food and drinks.

IJCAI-15 schedule on your smartphone

The IJCAI schedule is available on your smartphone (iPhone or Android) via the "eventbase" app.

To use this, download the free eventbase app from the Apple or Android store, then click on "Conferences" and search for "IJCAI-15". When it finds the event, click on it and launch the event guide. You can use the app to create a personal schedule with reminders.

Eventbase is widely used by conferences and other similar events - you can use the same app for other conferences in the future.

To download Eventbase:

Participant registration for IJCAI 2015

Onsite registration will be located from Saturday, July 25 to Monday Morning, July 27 at New Building of Facultad de Ciencias Económicas and from Monday Afternoon, July 27 to Friday, July 31 at the Conference Desk at the second floor of the Sheraton Convention Center. All attendees must pick up their registration packets for admittance to programs. **Please note that new onsite registrations will be processed only online with credit card payment option!**

Registration Desk Schedule

DAY	LOCATION	TIME
Saturday July 25	New Building, Facultad de Ciencias Económicas (Workshop Site)	7:30–17:30
Sunday July 26	New Building, Facultad de Ciencias Económicas (Workshop Site)	7:30–17:30
Monday July 27	New Building, Facultad de Ciencias Económicas (morning only) and Sheraton Convention Center (afternoon only)	7:30–12:30 15:30–18:30
Tuesday July 28	Sheraton Convention Center (Conference Desk)	8:00–17:30
Wednesday July 28	Sheraton Convention Center (Conference Desk)	8:00–17:30
Thursday July 30	Sheraton Convention Center (Conference Desk)	8:00–17:30

Tour information

The services described on this page (airport pick-up, accommodation, tours during and after the convention) are provided by the IJCAI-15 tour operator- TIPGROUP (which is the most important in Argentina).
Please send payment for services provided here directly to TIPGROUP.

AIRPORT PICK-UP SERVICE

Car (1-2 pers)	USD 60
Utility (3-4 pers)	USD 75
Van (5-8 pers)	USD 120

** Committee representative will hold a sign with IJCAI-15 logo at the exit, where clients have finished all procedures at Immigration and Customs, and have de-clared their luggage.
** Clients taking irregular-size luggage or more than one big suitcase per person had better order a bigger size vehicle.
** Groups with more than 8 people please send enquiries to tour-ijcai2015@tipgrouptravel.com
** Payment for the above service should arrive at the Tipgroup account before 30th, Jun.

BUENOS AIRES HALF DAY TOURS

City Tour

– Tour code: CITYT
– Highlights: Plaza de Mayo, San Telmo, La Boca, Recoleta, Palermo and Puerto Madero
– Booking on site price: USD 20
– Duration-approx: 3.0 hour
– Departure date: Daily AM or PM
– Departure time: from 08:45am or 1:45pm
– Departure point: The Hotel you are staying at

Description:
This tour gives you the emotion of a multiple Buenos Aires. We will see the symbol of our city: the obelisk at the wide 9th of July Ave, close to the opera house (Colon Theater). We will visit different squares such as Plaza de Mayo where you will feel the presence of "The Mothers" marching in front of The Pink House.
You will enjoy the colonial houses at San Telmo and Montserrat and be impressed by "La Bombonera" (soccer stadium) at the colorful neighborhood of La Boca.
By visiting Puerto Madero you will see the most modern towers and five-star hotels surrounded by the best beef restaurants of this harbor.
You will see elegant neighborhoods such as Palermo, drive along its avenues decorated with ancient trees and reach Recoleta, with its private cemetery (Evita's grave) and the National Library Building. When going back to the hotel you will see the huge embassies and palaces that belonged to the aristocracy.

Delta and North Zone

– Tour code: TIGHD
– Highlights: Tigre City, boat trip through the Delta and San Isidro neighborhood
– Booking on site price: USD 35
– Duration-approx: 4.0 hour
– Departure date: Daily AM
– Departure time: from 08:45am
– Departure point: The Hotel you are staying at

Description:
By watching the Delta you will appreciate the generosity of nature in a very singular place. We will leave Buenos Aires City and go to the north of the Great Buenos Aires looking at the natural scenery of the Delta and its islands. The lifestyle of the "isleños" (people who live on the islands) is very special. We will know their traditions, culture and their way of life. We will also see elegant residences located in the residential neighborhoods of the northern suburbs. We will visit the San Isidro neighborhood and the Amazing Cathedral. On the way back to Buenos Aires City, we will pass next to the Presidential Residence (Quinta de Olivos where all the Argentinian Presidents use to live during their Presidential period) and River Plate soccer stadium.

Two Passions of Buenos Aires: Tango & Football

– Tour code: DOSPA
– Highlights: Carlos Gardel Museum, La Boca and La bombonera
– Booking on site price: USD 32
– Duration-approx: 3.5 hours
– Departure date: Mondays to Saturdays AM
– Departure time: from 08:45am
– Departure point: The Hotel you are staying at

Description:
You will feel the two most important Passions of Buenos Aires City. Each corner tells a story when we talk about the Traditional music of Buenos Aires. We will visit the Carlos Gardel Museum, The Museum of the most important Tango Singer ever, the traditional corners, brave air, and the real Character of our city. We will also visit La Boca neighborhood, one of the most traditional neighborhoods of Buenos Aires. This neighborhood has

a great personality, and it is one of the most important when we talk about Football in Buenos Aires. People who want to live this passion could visit the Boca Juniors Stadium known as La Bombonera (optional), and explore the colorful streets.

Personalities Buenos Aires (Evita-Borges)

– Tour code: PERSO
– Booking on site price: USD 42
– Duration-approx: 4.0 hours
– Departure date: Tuesdays to Saturdays PM
– Departure time: from 1:45pm
– Departure point: The Hotel you are staying at

Description:
We will visit different places. The cemetery of La Recoleta (tickets not included), and we will travel through our history. We will find mausoleums and tombs of the national heroes and ancestors of the most traditional families of Buenos Aires, while walking along the narrow streets of the cemetery. We will also visit the exclusive neighborhoods of La Recoleta, Palermo, Belgrano. We will know the area where Jorge Luis Borges spend part of his life. The National Library Building, and Evita's Museum, a place where our guides are going to make you feel, and understand the work and life of the most important woman of Argentina. It is a great mixture of history, culture and art. The price includes Evita's Museum Tickets.

Navegation Lunch

– Tour code: HUMBE
– Highlights: boat trip, lunch, the best view of BA
– Booking on site price: USD 46
– Duration-approx: 3.0 hour
– Departure date: Mondays to Saturdays
– Departure time: from 12:45pm
– Departure point: The Hotel you are staying at

Description:
Visit the city and have lunch for two hours in a boat trip through the Río de la Plata, in a ship full of pleasure and beauty with the best view of Buenos Aires city. Enjoy the excellent cooking aboard in its completely panoramic saloon. The price includes: Transportation and lunch aboard. Drinks are not included.

BUENOS AIRES FULL DAY TOURS

Tigre and Delta Full Day

– Tour code: TIGFD
– Highlights: Tigre City, traditional market, boat trip through the Delta, lunch and San Isidro neighborhood
– Booking on site price: USD 80
– Duration-approx: 6.0 hour
– Departure date: Daily AM
– Departure time: form 08:45am
– Departure point: The Hotel you are staying at

Description:
We will know about the traditions, culture and lifestyles of the "isleños" (people who live in the islands); we will have lunch enjoying a great view of the river. We will visit the most traditional market at Puerto de Frutos and then we will go to this natural scenery and will sail into the islands. After that, we will visit the elegant residences located in the residential neighborhoods of the northern suburbs. You will see San Isidro neighborhood, its history and people. There, we will make a stop. On the way back to Buenos Aires, we will go through the Presidential Residence (Quinta de Olivos). On Sundays, the tour can end, if you want, in San Telmo neighborhood, where you can see the most important Flea and antique Market in the City. The price includes lunch without drinks.

Gaucho´s Experience at Santa Susana´s Ranch

– Tour code: STSUS
– Highlights: Gaucho, Horses, chorizo, beef, red wine
– Booking on site price: USD 90
– Duration-approx: 9.0 hours
– Departure date: Tuesday to Sundays AM
– Departure time: from 9:30am
– Departure point: The Hotel you are staying at

Description:
It is a unique experience to Santa Susana's Ranch. In this tour you will find the Gaucho's Countryside life, and the peace of the place where he lives. It is a great experience to know about the Argentine Tradition. We invite you to ride horses, make a trip in a Sulkie, the traditional carriage that people used to have in the countryside. In this tour you will see traditional dances, gaucho's skills exhibitions and more. Our tour includes: Transportation, Tour guide, lunch and drinks, traditional dances, gaucho's exhibition, coffee, tea, mate and mate cocido (a typical beverage of the countryside)

Colonia (Uruguay)

– Tour code: COLBQ
– Booking on site price: USD 120
– Duration-approx: 12.00 hours
– Departure date: Daily AM
– Departure time: to be confirmed
– Departure point: Buquebus Port

Description:
Escape the hustle and bustle of Buenos Aires and immerse yourself in the atmosphere of the historic Uruguayan town of Colonia del Sacramento. On this day trip, take a three hours scenic ferry ride from Buenos Aires across the Rio de la Plata and enjoy a city sightseeing tour and walking tour of Colonia. Then, enjoy a delicious lunch at a quality restaurant of your choice (own expense) and spend the afternoon exploring the city of Colonia at your leisure

Montevideo (Uruguay)

– Tour code: MVDBQ
– Booking on site price: USD 300
– Duration-approx: 14.00 hours
– Departure date: Daily AM
– Departure time: 06:30am
– Departure point: Buquebus Port

Description:
Enjoy a full-day trip from Buenos Aires to Montevideo, the capital city of Uruguay. Known for its theater scene and cultural heritage, Montevideo offers an array of sightseeing options in both its old and new areas. Take a scenic ferry ride there from Buenos Aires, and enjoy a city tour before enjoying a delicious lunch and exploring the city at your leisure. Ferry tickets, lunch and a city tour are all included.

BUENOS AIRES NIGHT TOURS

Dinner Tango Show

– Tour code: TANGO
– Highlights: Historical Tango Houses, Dinner and drinks, Tango Rhythms, Live Orchestra, Typical costumes.
– Booking on site price: from USD 45
– Duration-approx: 4.0 hour
– Departure date: Daily Evenings
– Departure time: from 7:30pm
– Departure point: The Hotel you are staying

Description:
Round trip transportation (Hotel/Tango show/Hotel)
Dinner with wide menu: typical Argentine dishes and an exclusive selection of wines is included.
After dessert, you will enjoy a one and a half hour tango show with a live orchestra, several couples dancing and professional singers.
You will be witness to the evolution of the “Tango” through history (milonga, arrabalero and modern tango) in a true scenery with a mystic atmosphere.

Esquina Homero Manzi	**USD 45**
Cafe de los Angelitos	**USD 60**
La Ventana Tango	**USD 65**
Esquina Carlos Gardel	**USD 70**

IJCAI 2015 Exhibit program

Alibaba.com
Alibaba group's mission is to make it easy to do business anywhere. We operate leading online and mobile marketplaces in retail and wholesale trade, as well as cloud computing and other services. We provide technology and services to enable consumers, merchants, and other participants to conduct commerce in our ecosystem. We aim to build the future infrastructure of commerce. We envision that our customers will meet, work and live at Alibaba, and that we will be a company that lasts at least 102 years.

Adobe
www.adobe.com/
Adobe is the global leader in digital marketing and digital media solutions. Our tools and services allow our customers to create groundbreaking digital content, deploy it across media and devices, measure and optimize it over time and achieve greater business success. We help our customers make, manage, measure and monetize their content across every channel and screen.

Baidu
www.baidu.com
Baidu was founded in 2000 by Internet search pioneer Robin Li, with the mission of providing the best and most equitable way for people to find what they're looking for. Over the past 15 years we have strived to fulfill this mission by listening to our users and truly understanding their needs. To provide intelligent, relevant search results for the tens of billions of queries that are entered into our search platform every day, we focus on powering the best technology optimized for up-to-date local tastes and preferences, with a deep, nuanced insights into the Chinese language. In recent years, we've transitioned from a PC-centric to a mobile-first company, and currently over 50 percent of our revenues come from mobile. With a leading position in mobile search, mobile maps, and app distribution, Baidu is well positioned to capture the next opportunity: Connecting people with services in closed-loop transactions.

BigML
https://bigml.com
Cheap cloud computing and storage services have led to a huge increase in the amount of data accumulated. Companies with large numbers of analysts can gain valuable insight from their data. However, not everyone can afford such a team, let alone find the individuals with the right skill. There is a strong need for a new service that puts predictive power in the hands of many. Our goal is to make machine learning simple and beautiful. Our service can take the complexities out of creating a high-availability, low-latency Machine Learning system created especially for your data. You will not only gain valuable insights from your data, you will most likely enjoy it. From the developer, to the researcher, to the multinational corporation, BigML has something that can uncover the hidden predictive power of your data. BigML wants to make you the master of your data.

CoInvent
http://www.coinvent-project.eu/
COINVENT is an effort to advance the understanding of creativity and its computational realisation. It is funded by FET within the 7th Framework Programme for Research of the European Commission (grant agreement number 611553) that runs from October 2013 to September 2016. COINVENT investigates mathematical models of general cognitive principles that operate when new concepts are invented, so as to be able to engineer computer systems that effectively support humans in their creative thinking. COINVENT focuses on the mathematical formalisation and the computational implementation of conceptual blending, a fundamental cognitive operation intrinsic to everyday thought and language. By conceptual blending humans combine particular elements and their relations of originally separate mental spaces into a unified space, in which new elements and relations emerge and new inferences are drawn. COINVENT brings together a team of scientists of Europe's leading universities and research centres in formal systems, cognitive science, artificial intelligence, computational creativity, mathematical reasoning and cognitive musicology, with the objective of bringing about a computational creative system to be deployed in two representative working domains of creativity: mathematics and music. COINVENT is coordinated by IIIA-CSIC, Barcelona, Spain, and has as partners: University of Edinburgh, Osnabrück University, Otto-von-Guericke University Magdeburg, Goldsmiths University of London, Aristotle University of Thessaloniki, University of Dundee, and Free University of Bozen-Bolzano.

ESSENCE
http://www.essence-network.com
ESSENCE (Evolution of Shared Semantics in Computational Environments) is a European research training network that aims to translate the capabilities that enable human societies to negotiate and evolve meaning in communication to computational systems. The four-year programme is carried out by a multidisciplinary consortium composed of leading research groups in AI, linguistics, semantic technologies, and evolutionary robotics, as well as industrial and governmental organisations from six countries. It aims to build a sustainable European research base in the area by training 15 junior PhD researchers and organising a host of international

events that will help bring together expertise from such areas as language evolution, autonomous decision making, knowledge representation and reasoning, and computational linguistics. For more information, please visit our website.

Facebook
https://www.facebook.com
Facebook is a popular free social networking website that allows registered users to create profiles, upload photos and video, send messages and keep in touch with friends, family and colleagues. Founded in 2004, Facebook's mission is to give people the power to share and make the world more open and connected. People use Facebook to stay connected with friends and family, to discover what's going on in the world, and to share and express what matters to them.

Google Inc.
research.google.com
Google's mission is to organize the world's information and make it universally accessible and useful. Perhaps as remarkable as two Stanford research students having the ambition to found a company with such a lofty objective is the progress the company has made to that end. Ten years ago, Larry Page and Sergey Brin applied their research to an interesting problem and invented the world's most popular search engine. The same spirit holds true at Google today. The mission of research at Google is to deliver cutting-edge innovation that improves Google products and enriches the lives of all who use them. We publish innovation through industry standards, and our researchers are often helping to define not just today's products but also tomorrow's.

Huawei
www.hauwei.com
Huawei is a leading global ICT solutions provider. Through our dedication to customer-centric innovation and strong partnerships, we have established end-to-end capabilities and strengths across the carrier networks, enterprise, consumer, and cloud computing fields. We are committed to creating maximum value for telecom carriers, enterprises and consumers by providing competitive ICT solutions and services. Our products and solutions have been deployed in over 140 countries, serving more than one third of the world's population.

IBM Research
www.ibm.com
IBM has developed a thoughtful, comprehensive approach to corporate citizenship that we believe aligns with IBM's values and maximizes the impact we can make as a global enterprise. We focus on specific societal issues, including the environment, community economic development, education, health, literacy, language and culture. IBM is committed to environmental leadership in all of our business activities. Our global environmental management system ensures the company is vigilant in protecting the environment across all of its operations worldwide.

INSIGHT
http://www.insightproject.eu/
The Insight Project is a consortium funded by the EU Seventh Framework Programme for research, technological development and demonstration under grant agreement no 308943, within the program of FET Open. The project offers and elaborates the Neural Replicator Hypothesis (NRH) stating that the missing ingredient for reaching adequate models of intelligence is true Darwinian neurodynamics of replicators within the brain. INSIGHT is based on, and refines, plausible neurobiological foundations of neuronal replicators. It attempts to show that Darwinian neurodynamics offers a credible and efficient algorithm for approximate Bayesian inference in the brain. The project is coordinated by Eors Szathmáry from the Parmenides Foundation in Munich (Germany) and includes the University of Sussex, the Universitat Pompeu Fabra, the Ecole Polytechnique de Lausanne, and IN Project Management from Udine.

Medallia
At Medallia we collect, analyze and display terabytes of structured and unstructured data for our multi-billion dollar clients in real time. We mix academy innovation with industry technology to create tools that help our clients understand their information and provide a better service. We build products on top of machine learning techniques including sentiment analysis, automatic topic discovery and time series analysis for anomaly detection. Get to know more about us at www.medallia.com

Microsoft Research
www.microsoft.com
At Microsoft, we're motivated and inspired every day by how our customers use our software to find creative solutions to business problems, develop breakthrough ideas, and stay connected to what's most important to them. We are committed long term to the mission of helping our customers realize their full potential. Just as we constantly update and improve our products, we want to continually evolve our company to be in the best position to accelerate new technologies as they emerge and to better serve our customers.

PRAISE
http://www.iiia.csic.es/praise/
PRAISE is a social network for music education with tools for giving and receiving feedback. It aims to widen access to music education and make learning music more

a supportive, social environment using the latest techniques in social networks, online community building, intelligent personal agents and audio and gesture analysis. Any member of any community can post audio to any community for which they are a member and ask for specific kinds of feedback on various regions of that audio. Any community member can respond with text, or with other audio to emphasize a particular point about style or performance for example. PRAISE enables online virtual communities of students with shared interests or goals to come together to share their music practice and music goals with each other so the process of learning can become social and shared and giving positive feedback and constructive criticism each other is part of the fabric of the community.

Tencent

Founded in November, 1998, Tencent has grown into one of China's largest and most used Internet service portal. Since its establishment over the last decade, Tencent has maintained steady growth under its user-oriented operating strategies. It is Tencent's mission to enhance the quality of human life through Internet services. Presently, Tencent is providing value-added Internet, mobile and telecom services and online advertising under the strategic goal of providing users with "one-stop online lifestyle services". The development of Tencent has profoundly influenced the ways hundreds of millions of Internet users communicate with one another as well as their lifestyles. It also brings possibilities of a wider range of applications to the China's Internet industry. Looking forward, Tencent remains committed to enhancing its development and innovation capabilities while strengthening its nationwide branding for its long term development. Tencent's long term vision is to become the most respected Internet enterprise. In order to fulfill corporate social responsibilities and to promote civil Internet communities, Tencent has been actively participating in public charity programs. In 2006, Tencent inaugurated the Tencent Charity Fund, the first charity foundation set up by a Chinese Internet enterprise, and the public charity website gongyi.qq.com. The website focuses on youth education, assisting impoverished communities, care for the disadvantaged, and disaster relief. Tencent has currently begun a number of public charity projects across China. It strives to help build a harmonious society and to become a good corporate citizen.

Elsevier

www.elsevier.com/computerscience

Elsevier is committed to making important contributions to the artificial intelligence community by delivering world-class information and innovative tools. Elsevier's Artificial Intelligence, which commenced publication in 1970, is now the generally accepted premier international forum for the publication of results of current research in this field. The journal welcomes foundational and applied papers describing mature work involving computational accounts of aspects of intelligence. Please visit us at our stand or visit www.elsevier.com/computerscience for more information about Artificial Intelligence journal and Elsevier.

Springer

www.springer.com

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IJCAI-16

www.ijcai-16.org

The booth will display the IJCAI-16 poster as well as materials about New York. The booth will be manned by researchers of the Local Arrangements Committee who can answer questions regarding the organization of IJCAI 2016 in New York, USA.

IJCAI-17

www.ijcai-17.org

We will have a booth to publicize the forthcoming IJCAI-17 conference in Melbourne, Australia.

DAY 1 TUESDAY, JULY 28TH

Timetable	Place	Session	Paper ID	Title	Author/ Authors
08:30 – 09:30	**ROOM LB**	**Invited 9**	**Invited 9**	Computers and Thought Award	Prof. Ariel Procaccia
09:30 – 09:40	**ROOM LB**	**Transition 1**		Transition	
09:40 – 10:40	**ROOM GH**	**Distinguished Paper** Distinguished Paper Track	**Main75**	Recursive Decomposition for Nonconvex Optimization	Abram Friesen, Pedro Domingos
			ML112	Bayesian Active Learning for Posterior Estimation	Kirthevasan Kandasamy, Jeff Schneider, Barnabas Poczos
			KR297	Reasonable Highly Expressive Query Languages	Pierre Bourhis, Markus Krötzsch, Sebastian Rudolph
09:40 – 10:40	**ROOM LB1**	**Main 1** Game Theory 1	**Main 144**	Simple Causes of Complexity in Hedonic Games	Dominik Peters, Edith Elkind
			Main 99	The Adjusted Winner Procedure: Characterizations and Equilibria	Haris Aziz, Simina Brânzei, Aris Filos-Ratsikas, Søren Kristoffer Stiil Frederiksen
			Main 10	Impartial Peer Review	David Kurokawa, Omer Lev, Jamie Morgenstern, Ariel D. Procaccia
09:40 – 10:40	**ROOM LB2**	**Main 76** Planning 1	**Main 784**	Deordering and Numeric Macro Actions for Plan Repair	Scala Enrico, Pietro Torasso
			Main 456	Cost-optimal and Net-benefit Planning- -A Parameterised Complexity View	Meysam Aghighi, Christer Bäckström
			Main 1019	On the Online Generation of Effective Macro-operators	Lukas Chrpa, Mauro Vallati, Thomas Leo McCluskey
			IJCAI-JAIR	IJCAI-JAIR BEST PAPER PRIZE talk	
09:40 – 10:40	**ROOM LB3**	**Main 3** Relational Learning	**Main 718**	Anytime Inference in Probabilistic Logic Programs with Tp-compilation	Jonas Vlasselaer, Guy Van den Broeck, Angelika Kimmig, Wannes Meert, Luc de Raedt
			Main 554	Knowledge Base Completion Using Embeddings and Rules	Quan Wang, Bin Wang
			Main 580	Inducing Probabilistic Relational Rules from Probabilistic Examples	Luc de Raedt, Anton Dries, Ingo Thon, Guy Van den Broeck, Mathias Verbeke
			Main 1333	Saul: Towards Declarative Learning Based Programming	Parisa Kordjamshidi, Dan Roth, Hao Wu
09:40 – 10:40	**ROOM LP**	**KR1** KR Track: Aggregations	**KR66**	Modular Systems with Preferences	Alireza Ensan, Eugenia Ternovska
			KR126	Multilateral Negotiation in Boolean Games with Incomplete Information using Generalized Possibilistic Logic	Sofie de Clercq, Steven Schockaert, Martine de Cock, Ann Nowé
			KR224	Computing social behaviours using agent models	Paolo Felli, Tim Miller, Christian Muise, Adrian R. Pearce, Liz Sonenberg
09:40 – 10:40	**ROOM R1**	**ML1** ML Track: Deep Learning 1	**ML56**	Deep Convolutional Neural Networks on Multichannel Time Series for Human Activity Recognition	Jian-Bo Yang, Minh Nhut Nguyen, Phyo Phyo San, Xiaoli Li, Priyadarsini Krishnaswamy Shonali
			ML249	Speeding up Automatic Hyperparameter Optimization of Deep Neural Networks by Extrapolation of Learning Curves	Tobias Domhan, Tobias Springenberg, Frank Hutter
			ML250	Perception Evolution Network — Adapting to the Emergence of New Sensory Receptor	Youlu Xing, Furao Shen, Jinxi Zhao
			ML514	Equivalence Results between Feedforward and Recurrent Neural Networks for Sequences	Alessandro Sperduti

TUESDAY, JULY 28TH

DAY 1

09:40 - 10:40	**ROOM R2**	**AIA1** AI&Arts: Visual Arts, Music, Language	**AIA15**	Looking at Mondrian's Victory Boogie-Woogie: What do I feel?	Andreza Sartori, Yan Yan, Gözde Özbal, Alkim Almila Akdag Salah, Albert Ali Salah, Nicu Sebe
			AIA20	Computational invention of cadences and chord progressions by conceptual chord-blending	Manfred Eppe, Roberto Confalonieri, Ewen Maclean, Maximos Kaliakatsos, Emilios Cambouropoulos, Mihai Codescu, Marco Schorlemmer, Kai-Uwe Kuehnberger
			AIA44	Slogans are not forever: Adapting Linguistic Expressions to the News	Lorenzo Gatti, Gözde Özbal, Marco Guerini, Oliviero Stock, Carlo Strapparava
09:40 - 10:40	**ROOM R3**	**CS2** CS Track: Machine learning	**CS33**	Clustering Dynamic Spatio-Temporal Patterns in The Presence of Noise and Missing Data	Xi Chen, Faghmous James, Ankush Khandelwal, Vipin Kumar
			CS87	Copula Graphical Models for Wind Resource Estimation	Kalyan Veeramachaneni, Alfredo Cuesta-Infante, Una-May O'Reilly
			CS92	On the Balance of Meter Deployment Cost and NILM Accuracy	Xiaohong Hao, Bangsheng Tang, Yongcai Wang
			CS100	Modeling Multi-Attribute Demand for Sustainable Cloud Computing With Copulae	Maryam Ghasemi, Benjamin Lubin
10:40 - 11:10		**Poster 1**		**Coffee and Poster 1**	
11:10 - 12:10	**ROOM GH**	**Sist1** Sister Track: Games, Probability & Ontologies	**Sist1**	Near-Optimal Approximation Mechanisms for Multi-Unit Combinatorial Auctions (from AAMAS'13)	Piotr Krysta
			Sist4	Reasoning with Probabilistic Ontologies (from RR'13)	Fabrizio Riguzzi
			Sist6	Firefly Monte Carlo: Exact MCMC with Subsets of Data (from UAI'14)	Dougal Maclaurin and Ryan Adams
11:10 - 12:10	**ROOM LB1**	**Main 4** Game Theory 2	**Main 550**	Fixing tournaments for kings chokers and more	
			Main 429	Gibbard–Satterthwaite Games	Edith Elkind, Umberto Grandi, Francesca Rossi, Arkadii Slinko
			Main 720	Truthful Cake Cutting Mechanisms with Externalities: Do not make them care for others too much!	Minming Li, Jialin Zhang, Qiang Zhang
11:10 - 12:10	**ROOM LB2**	**Main 5** Natural Language Processing 1	**Main 812**	Automated Rule Selection for Aspect Extraction in Opinion Mining	Qian Liu, Zhiqiang Gao, Bing Liu, Yuanlin Zhang
			Main 791	Prior-based Dual Additive Latent Dirichlet Allocation for User-item Connected Documents	Wei Zhang, Jianyong Wang
			Main 1412	Joint POS Tagging and Text Normalization for Informal Text	Chen Li, Yang Liu
			Main 830	Multi-Document Abstractive Summarization Using ILP based Multi-Sentence Compression	Siddhartha Banerjee, Prasenjit Mitra, Kazunari Sugiyama
11:10 - 12:10	**ROOM LB3**	**Main 6** Multiagent Systems 1	**Main 363**	Strategy-Proofness of Scoring Allocation Correspondences for Indivisible Goods	Nhan-Tam Nguyen, Dorothea Baumeister, Joerg Rothe
			Main 284	What Do We Elect Committees For? A Voting Committee Model for Multi-Winner Rules	Piotr Skowron
			Main 101	Equilibria Under the Probabilistic Serial Rule	Haris Aziz, Serge Gaspers, Simon Mackenzie, Nicholas Mattei, Nina Narodytska, Toby Walsh
			Main 1124	Estimating the Margin of Victory of Elections using Sampling	Palash Dey, Y. Narahari

DAY 1 TUESDAY, JULY 28TH

11:10 – 12:10	ROOM LP	**KR2** KR Track: DL and Ontologies 1	KR25	Polynomial Rewritings for Linear Existential Rules	Georg Gottlob, Marco Manna, Andreas Pieris
			KR98	Efficient Query Rewriting in the Description Logic EL and Beyond	Peter Hansen, Carsten Lutz, Inanc Seylan, Frank Wolter
			KR106	Query Rewriting for Existential Rules with Compiled Preorder	Mélanie König, Michel Leclère, Marie-Laure Mugnier
			KR132	The Combined Approach to Query Answering Beyond the OWL 2 Profiles	Cristina Feier, David Carral, Giorgio Stefanoni, Bernardo C. Cuenca Grau, Ian Horrocks
11:10 – 12:10	ROOM R1	**Main 7** Recommender Systems 1	Main 140	Exploring Implicit Hierarchical Structure for Recommender Systems	Suhang Wang, Jiliang Tang, Huan Liu, Yilin Wang
			Main 119	Simple Atom Selection Strategy for Greedy Matrix Completion	Zebang Shen, Hui Qian
			Main 589	Personalized Tour Recommendation based on User Interests and Points of Interest Visit Durations	Kwan Hui Lim, Jeffrey Chan, Christopher Leckie, Shanika Karunasekera
11:10 – 12:10	ROOM R2	**ML2** ML Track: New Problems	ML35	Collaborative Place Models	Berk Kapicioglu, David S. Rosenberg, Robert E. Schapire, Tony Jebara
			ML105	Introspective Forecasting	Loizos Michael
			ML438	Sketch the Storyline with CHARCOAL: a Non-parametric Approach	Siliang Tang, Wu Fei, Si Li, Zhongfei Zhang
			ML558	Open Domain Short Text Conceptualization: A Generative + Descriptive Modeling Approach	Yangqiu Song, Shusen Wang, Haixun Wang
11:10 – 12:10	ROOM R3	**Main 70** Heuristic Search 1	Main 159	Mining Expert Play to Guide Monte Carlo Search in the Opening Moves of Go	Steinmetz Erik, Maria L. Gini
			Main 1102	Computing Possibly Optimal Solutions for Multi-Objective Constraint Optimisation with Tradeoffs	Nic Wilson, Razak Abdul, Radu Marinescu
			Main 93	Generalized Rapid Action Value Estimation	Tristan Cazenave
			Main 1253	Efficient Search with an Ensemble of Heuristics	Mike Phillips, Venkatraman Narayanan, Sandip Aine, Maxim Likhachev
12:10 – 12:30		**Poster 2**		**Poster 2**	
12:30 – 14:00		**Lunch 1**		**Lunch**	
14:00 – 15:00	**ROOM LB**	**Invited 1**	**Invited 1**	Invited Talk 1: Julien Cornebise Towards General Artificial Intelligence	Dr. Julien Cornebise
14:00 – 15:00	**ROOM R**	**Invited 2**	**Invited 2**	Invited Talk 2: Christof Koch Consciousness in Biological and Artificial Brains	Christof Koch
15:00 – 15:10		**Transition 2**		Transition	
15:10 – 16:30	**ROOM GH**	**Jnl1** Journal Track: Natural Language Processing	Journal 17	New Avenues in Opinion Mining and Sentiment Analysis (Extended Abstract)	Erik Cambria
			Journal 18	Phrase Detectives: Utilizing Collective Intelligence for Internet-Scale Language Resource Creation (Extended Abstract)	Massimo Poesio
			Journal 19	Developing Corpora for Sentiment Analysis: The Case of Irony and Senti–TUT (Extended abstract)	Cristina Bosco
			Journal 20	Feature Ensemble Plus Sample Selection: Domain Adaptation for Sentiment Classification (Extended Abstract)	Rui Xia
			Journal 21	Enhanced SenticNet with Affective Labels for Concept-based Opinion Mining (Extended Abstract)	Soujanya Poria

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DAY 1

15:10 – 16:30	**ROOM LB1**	**Main 8** Game Theory 3	**Main 432**	Learning Cooperative Games	Maria F Balcan, Ariel D. Procaccia, Yair Zick
			Main 808	Influence in Classification via Cooperative Game Theory	Amit Datta, Anupam Datta, Ariel D. Procaccia, Yair Zick
			Main 658	Simultaneous Abstraction and Equilibrium Finding in Games	Noam Brown, Tuomas Sandholm
			Main 521	Solving Heads-up Limit Texas Hold'em	Oskari Tammelin, Neil Burch, Michael Johanson, Michael Bowling
15:10 – 16:30	**ROOM LB2**	**ML-ISC1** ML Track: Invited Sister Conference Presentations 1	**ML-ISC1**	Learning in the Model Space	Huanhuan Chen
			ML-ISC2	Fast Spatio-temporal Analysis via Low Rank Tensor Learning	Yan Liu
			ML-ISC3	Languages for Mining and Learning	Luc de Raedt
			ML-ISC4	Learning as Interpretation	Stephen Muggleton
15:10 – 16:30	**ROOM LB3**	**Main 10** Web Mining 1	**Main 152**	Tackling Data Sparseness in Recommendation using Social Media based Topic Hierarchy Modeling	Xingwei Zhu, Zhao-Yan Ming, Yu Hao, Xiaoyan Zhu
			Main 1446	Catch the Black Sheep: Unified Shilling Attack Detection based on Fraudulent Action Propagation	Yongfeng Zhang, Yunzhi Tan, Min Zhang, Yiqun Liu, Shaoping Ma
			Main 17	Detecting Promotion Campaigns in Community Question Answering	Xin Li, Yiqun Liu, Min Zhang, Shaoping Ma, Xuan Zhu, Jiashen Sun
			Main 1504	Learning Geographical Hierarchy Feature for Image Location Prediction	Zhang Xiaoming, Xia Hu
15:10 – 16:30	**ROOM LP**	**KR3** KR Track: DL and Ontologies 2	**KR40**	The Complexity of Subsumption in Fuzzy El	Stefan Borgwardt, Marco Cerami, Rafael Peñaloza
			KR123	Efficient Paraconsistent Reasoning with Ontologies and Rules	Tobias Kaminski, Matthias Knorr, Joao Leite
			KR133	First-Order Rewritability of Ontology-Mediated Temporal Queries	Alessandro Artale, Roman Kontchakov, Alisa Kovtunova, Vladislav Ryzhikov, Frank Wolter, Michael Zakharyaschev
			KR260	Verification of Generalized Inconsistency-Aware Knowledge and Action Bases	Diego Calvanese, Marco Montali, Ario Santoso
15:10 – 16:30	**ROOM R1**	**Main 11** Natural Language Processing 2	**Main 823**	Iterative Learning of Parallel Lexicons and Phrases from Non-Parallel Corpora	Meiping Dong, Yang Liu, Maosong Sun
			Main 874	Learning Context-Sensitive Word Embeddings with Neural Tensor Skip-Gram Model	PengFei Liu, Xipeng Qiu, Xuanjing Huang
			Main 252	Representation Learning for Measuring Entity Relatedness with Rich Information	Yu Zhao, Zhiyuan Liu, Maosong Sun
			Main 982	Local Translation Prediction with Global Sentence Representation	Jiajun Zhang
			Main 164	Joint Learning of Character and Word Embeddings	Lei Xu, Xinxiong Chen, Zhiyuan Liu, Maosong Sun, Huanbo Luan
15:10 – 16:30	**ROOM R2**	**ML3** ML Track: Transfer Learning and Multi-task Learning	**ML78**	Multi-Task Model and Feature Joint Learning	Ya Li, Xinmei Tian, Tongliang Liu, Dacheng Tao
			ML106	Deep Low-Rank Coding for Transfer Learning	Zhengming Ding, Ming Shao, Yun Fu
			ML142	Multi-task Multi-view Clustering for Non-negative Data	Xianchao Zhang, Xiaotong Zhang, Han Liu
			ML174	Portable Option Discovery for Automated Learning Transfer in Object-Oriented Markov Decision Processes	Nicholay Topin, Nicholas Haltmeyer, Shawn Squire, John Winder, Marie desJardins, James MacGlashan
			ML340	Multi-task Multi-dimensional Hawkes Processes for Modeling Event Sequences	Dixin Luo, Hongteng Xu, Yi Zhen, Xia Ning, Hongyuan Zha
			ML350	Multitask Coactive Learning	Robby Goetschalckx, Alan Fern, Prasad Tadepalli

DAY 1 TUESDAY, JULY 28TH

15:10 – 16:30	ROOM R3	**ML4** ML Track: Matrix Completion	**ML230**	Word Embedding Revisited: A New Representation Learning and Explicit Matrix Factorization Perspective	Yitan Li, Linli Xu, Fei Tian, Liang Jiang
			ML311	Matrix Factorization with Scale-Invariant Parameters	Guangxiang Zeng, Hengshu Zhu, Qi Liu, Ping Luo, Enhong Chen, Tong Zhang
			ML414	Accelerated Inexact Soft-Impute for Fast Large-Scale Matrix Completion	Quanming Yao, James Kwok
			ML473	Scalable Probabilistic Tensor Factorization for Binary and Count Data	Piyush Rai, Changwei Hu, Lawrence Carin
16:30 – 17:00		**Poster 3**		**Coffee and Poster 3**	
17:00 – 18:00	ROOM GH	**Main 71** Model Verification / Model Checking	**Main 1297**	The Complexity of Model Checking Succinct Multiagent Systems	Xiaowei Huang
			Main 218	Pushdown Multi-Agent System Verification	Aniello Murano, Giuseppe Perelli
			Main 688	Verifying Emergent Properties of Swarms	Alessio Lomuscio, Panagiotis Kouvaros
			Main 672	Symbolic model-checking for single resource RB+-ATL	Natasha Alechina, Brian Logan, Hoang Nga Nguyen, Franco Raimondi
17:00 – 18:00	ROOM LB1	**Main 73** Constraints, Satisfiability and Search 1	**Main1 078**	Multi-Armed Bandits for Adaptive Constraint Propagation	Amine Balafrej, Anastasia Paparrizou, Christian Bessiere
			Main 608	Efficient Algorithms with Performance Guarantees for the Stochastic Multiple-Choice Knapsack Problem	Long Tran-Thanh, Yingce Xia, Tao Qin, Nick Jennings
			Main 1383	Personalized Mathematical Word Problem Generation	Oleksandr Polozov, Eleanor O'Rourke, Adam M. Smith, Luke Zettlemoyer, Sumit Gulwani, Zoran Popovi
17:00 – 18:00	ROOM LB2	**Main 13** Social Networks 1	**Main 1317**	Optimal Route Search with the Coverage of Users' Preferences	Xuefeng Chen, Yifeng Zeng, Xin Cao, Shengchao Qin, Marc Cavazza, Yanping Xiang
			Main 377	How Robust is the Wisdom of the Crowds?	Noga Alon, Michal Feldman, Omer Lev, Moshe Tennenholtz
			Main 234	Integrated Anchor and Social Link Predictions across Social Networks	Jiawei Zhang, Philip Yu
			Main 834	Uncovering the Formation of Triadic Closure in Social Networks	Zhanpeng Fang, Jie Tang
17:00 – 18:00	ROOM LB3	**Main 14** Vision and Perception 1	**Main 796**	Face clustering in videos with proportion prior	Zhiqiang Tang, Yifan Zhang, lu Han Qing
			Main 1491	Generalized Transitive Distance with Minimum Spanning Random Forest	Zhiding Yu, Weiyang Liu, Wenbo Liu, Xi Peng, Zhuo Hui, Vijayakumar Bhagavatula
			Main 693	Saliency Detection with a Deeper Investigation of Light Field	Jun Zhang, Meng Wang, Jun Gao, Yi Wang, Xudong Zhang, Xindong Wu
17:00 – 18:00	ROOM LP	**KR4** KR Track: DL and Ontologies 3	**KR41**	Temporal Query Answering in the Description Logic EL	Stefan Borgwardt, Veronika Thost
			KR42	Beyond SPARQL under OWL 2 QL Entailment Regime: Rules to the Rescue	Georg Gottlob, Andreas Pieris
			KR82	Controlled Query Evaluation for Datalog and OWL 2 Profile Ontologies	Bernardo C Cuenca Grau, Evgeny Kharlamov, Egor V. Kostylev, Dmitriy Zheleznyakov
			KR101	Combining Existential Rules and Description Logics	Antoine Amarilli, Michael Benedikt

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DAY 1

17:00 - 18:00	**ROOM R1**	**Main 15** Auctions and Market-Based Systems	**Main 779**	Mechanism Design and Search Algorithm for Lung Exchange	Suiqian Luo, Pingzhong Tang
			Main 876	Selling Reserved Instances in Cloud Computing	Changjun Wang, Weidong Ma, Tao Qin, Xujin Chen, Xiaodong Hu, Tieyan Liu
			Main 1252	Maximal Cooperation in Repeated Games on Social Networks	Catherine Moon, Vincent Conitzer
17:00 - 18:00	**ROOM R2**	**ML5** ML Track: High-Dimensional Data 1	**ML186**	Compressed Spectral Regression for Efficient Nonlinear Dimensionality Reduction	Deng Cai
			ML214	Semi-Orthogonal Multilinear PCA with Relaxed Start	Qiquan Shi, Haiping Lu
			ML279	Feature Selection from Microarray Data via an Ordered Search with Projected Margin	Saulo Villela, Saul C. Leite, Raul Fonseca Neto
			ML475	Discriminative Unsupervised Dimensionality Reduction	Xiaoqian Wang, Feiping Nie, Heng Huang
17:00 - 18:00	**ROOM R3**	**ML6** ML Track: Online Learning and Sequential Data 1	**ML138**	Model Metric Co-learning for Time Series Classification	Huanhuan Chen, Fengzhen Tang, Peter Tino, Anthony Cohn, Xin Yao
			ML227	Imaging Time-Series to Improve Classification and Imputation	Zhiguang Wang, Tim Oates
			ML299	On the Runtime of Randomized Local Search and Simple Evolutionary Algorithms for Dynamic Makespan Scheduling	Frank Neumann, Carsten Witt
			ML418	Unsupervised Condition Monitoring Using Segmental Hidden Markov Models	Chao Yuan
18:00 - 19:00		**Poster 4**		**Poster 4**	

DAY 2

WEDNESDAY, JULY 29TH

Timetable	Place	Session	Paper ID	Title	Author/ Authors
08:30 - 10:10	**ROOM GH**	**Ind1**	**Ind1**	Industry Session 1 Alibaba Group Holding Limited	
08:30 - 10:10	**ROOM GH**	**Ind1**	**Ind2**	Industry Session 1 Microsoft Corporation	
08:30 - 10:10	**ROOM LB1**	**Main 16** Game Theory 4	**Main 35**	Possible and Necessary Allocations via Sequential Mechanisms	Haris Aziz, Toby Walsh, Lirong Xia
			Main 1320	Wisdom of Waze	Shoshana Vasserman, Michal Feldman, Avinatan Hassidim
			Main 1216	Computing Optimal Mixed Strategies for Security Games with Dynamic Payoffs	Yue Yin, Haifeng Xu, Jiarui Gan, Bo An, Albert Xin Jiang
			Main 705	A characterization of n-player strongly monotone scheduling mechanisms	Annamaria Kovacs, Angelina Vidali
			Main 545	Spiteful Bidding in the Dollar Auction	Marcin Waniek, Agata Niescieruk, Tomasz P Michalak, Talal Rahwan
			Main 1217	Strategic Network Formation through Intermediaries	Elliot Anshelevich, Onkar Bhardwaj, Koushik Kar
			Main 1201	Optimal Network Security Hardening Using Attack Graph Games	Karel Durkota, Viliam Lisy, Branislav Bosansky, Christopher Kiekintveld
08:30 - 10:10	**ROOM LB2**	**Main 18** Vision and Perception 2	**Main 313**	Trailer Generation via A Point Process-based Visual Attractiveness Model	Hongteng Xu, Yi Zhen, Hongyuan Zha
			Main 226	Social Image Parsing by Cross-Modal Data Refinement	Zhiwu Lu, Xin Gao, Liwei Wang, Songfang Huang
			Main 145	Cross-View Projective Dictionary Learning for Person Re-identification	Sheng Li, Ming Shao, Yun Fu
			Main 954	Modeling Inter- and Intra-Part Deformations for Object Structure Parsing	Cai Ling, Rongrong Ji
			Main 1480	Adaptive Sharing for Image Classification	Li Shen, Gang Sun, Zhouchen Lin, Qingming Huang, Enhua Wu
			Main 13	Salient Object Detection via Augmented Hypotheses	Nguyen Tam
			Main 670	Video Covariance Matrix Logarithm for Human Action Recognition in Videos	Piotr T Bilinski, Francois Bremond
			Main 268	Inferring Painting Style with Multi-task Dictionary Learning	Gaowen Liu, Yan Yan, Elisa Ricci, Yi Yang, Yahong Han, Nicu Sebe
			Main 139	Semantic Single Video Segmentation with Robust Graph Representation	Handong Zhao, Yun Fu
			Main 995	Efficient and Accurate Set Based Registration of Aerial Images	Arandjelovic Ognjen
08:30 - 10:10	**ROOM LB3**	**AIA2** AI&Arts: Music, Dance, Language, Visual Arts	**AIA10**	Stroke-Based Stylization Learning and Rendering with Inverse Reinforcement Learning	Ning Xie, Tingting Zhao, Feng Tian, Xiaohua Zhang, Masashi Sugiyama
			AIA28	Heroic vs Collaborative AI for the Arts	Jon McCormack, Mark d'Inverno
			AIA33	Kinetic imaginations: Exploring the possibilities of combining AI and dance	Alexander Berman, Valencia James
			AIA36	Pseudo-supervised training improves unsupervised melody segmentation	Stefan Lattner, Maarten Grachten, Carlos E. Cancino Chacón
			AIA52	Learning to Rap Battle with Bilingual Recursive Neural Networks	Dekai Wu, Karteek Addanki

WEDNESDAY, JULY 29TH

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08:30 - 10:10	**ROOM LP**	**KR5** KR Track: Uncertainty reasoning	**KR19**	A Logic for Reasoning about Justified Uncertain Beliefs	Tuan-Fang Fan, Churn-Jung Liau
			KR32	Probabilistic Reasoning with Inconsistent Beliefs using Inconsistency Measures	Nico Potyka, Matthias Thimm
			KR136	The cube of opposition - A structure underlying many knowledge representation formalisms	Didier Dubois, Henri Prade, Agnčs Rico
			KR166	Probabilistic belief contraction using argumentation	Kinzang Chhogyal, Abhaya Nayak, Zhiqiang Zhuang, Abdul Sattar
			KR189	Probabilistic Inference in Hybrid Domains by Weighted Model Integration	Vaishak Belle, Andrea Passerini, Guy Van den Broeck
			KR261	Tractable Learning for Structured Probability Spaces: A Case Study in Learning Preference Distributions	Arthur Choi, Guy Van den Broeck, Adnan Darwiche
			KR320	Compatible-based conditioning in interval-based possibilistic logic	Salem Benferhat, Amélie Levray, Karim Tabia, Vladik Kreinovich
			KR702	The Logic of Qualitative Probability	James Delgrande, Bryan Renne
08:30 - 10:10	**ROOM R1**	**ML7** ML Track: Reinforcement Learning 1	**ML354**	Robust Learning for Repeated Stochastic Games via Meta-Gaming	Jacob Crandall
			ML327	Autonomous Cross-Domain Knowledge Transfer in Lifelong Policy Gradient Reinforcement Learning	Haitham Bou Ammar, Eric Eaton, Jose Marcio Luna, Paul Ruvolo
			ML511	Symbol Acquisition for Probabilistic High-Level Planning	George Konidaris, Leslie Kaelbling, Tomas Lozano-Perez
			ML604	Between Imitation and Intention Learning	James MacGlashan, Michael L. Littman
			ML623	Policy Shaping With Human Teachers	Thomas Cederborg, Ishaan Grover, Charles L. Isbell Jr., Andrea Thomaz
			ML641	Active Imitation Learning of Hierarchical Policies	Mandana Hamidi, Prasad Tadepalli, Robby Goetschalckx, Alan Fern
			ML668	Inverse Reinforcement Learning in Relational Domains	Thibaut Munzer, Bilal Piot, Matthieu Geist, Olivier Pietquin, Manuel Lopes
08:30 - 10:10	**ROOM R2**	**ML8** ML Track: Multi-label Learning	**ML139**	Using A* for Inference in Probabilistic Classifier Chains	Deiner Mena, Elena Montañés, José R. Quevedo, Juan J. del Coz
			ML211	Crowdsourced Semantic Matching of Multi-Label Annotations	Lei Duan, Satoshi Oyama, Masahito Kurihara, Haruhiko Sato
			ML263	Muti-label structure learning with Ising model selection	Andre R. Goncalves, Fernando J. Von Zuben, Arindam Banerjee
			ML306	Towards Class-Imbalance Aware Multi-Label Learning	Min-Ling Zhang, Yu-Kun Li, Xu-Ying Liu
			ML427	Polytree-Augmented Classifier Chains for Multi-Label Classification	Lu Sun, Mineichi Kudo
			ML458	Semi-supervised Multi-label Learning with Incomplete Labels	Feipeng Zhao, Yuhong Guo
			ML478	Multi-label Classification with Feature-aware Non-linear Label Space Transformation	Xin Li, Yuhong Guo

DAY 2 WEDNESDAY, JULY 29TH

08:30 - 10:10	**ROOM R3**	**Jnl2** Journal Track: Reasoning, Learning & Social Media	**Journal 1**	Complexity-Sensitive Decision Procedures for Abstract Argumentation (Extended Abstract)	Wolfgang Dvočák, Matti Järvisalo, Johannes Peter Wallner, Stefan Woltran
			Journal 2	Common Sense Reasoning for Detection Prevention and Mitigation of Cyberbullying (Extended Abstract)	Karthik Dinakar, Rosalind Picard, Henry Lieberman
			Journal 3	Inapproximability of Treewidth and Related Problems (Extended Abstract)	Yu Wu, Per Austrin, Toniann Pitassi, David Liu
			Journal 4	Influencing Individually: Fusing Personalization and Persuasion Extended Abstract	Shlomo Berkovsky, Jill Freyne, Harri Oinas-Kukkonen
			Journal 10	The Arcade Learning Environment: An Evaluation Platform for General Agents (Extended Abstract)	Marc G. Bellemare, Yavar Naddaf, Joel Veness, Michael Bowling
			Journal 6	Using Social Media to Enhance Emergency Situation Awareness: Extended Abstract	Jie Yin, Harri Oinas-Kukkonen, Andrew Lampert, Mark Cameron, Bella Robinson, Robert Power
10:10 - 10:40		**Poster 5**		**Coffee and Poster 5**	
10:40 - 12:10	**ROOM GH**	**Ind2**	**Ind3**	Industry Session 2 Tencent Holdings Limited	
10:40 - 12:10	**ROOM GH**	**Ind2**	**Ind4**	Industry Session 2 Facebook Incorporation	
10:40 - 12:10	**ROOM LB1**	**Sist2** Sister Track: Planning and Search	**Sist2**	Speedy versus Greedy Search (from SoCS'14)	Christopher Wilt and Wheeler Ruml
			Sist7	Max is More than Min: Solving Maximization Problems with Heuristic Search (from SoCS'14)	Roni Stern, Scott Kiesel, Rami Puzis, Ariel Felner and Wheeler Ruml
			Sist9	Exploiting Separability in Multiagent Planning with Continuous-State MDPs (from AAMAS'14)	Jilles Dibangoye, Christopher Amato, Olivier Buffet and François Charpillet
			Sist16	LP-based Heuristics for Cost-optimal Planning (from ICAPS'14)	Florian Pommerening, Gabriele Roeger, Malte Helmert and Blai Bonet
10:40 - 12:10	**ROOM LB2**	**Main 19** Game Theory 5	**Main 214**	Equilibrium Refinement through Negotiation in Binary Voting	Umberto Grandi, Davide Grossi, Paolo Turrini
			Main 387	Welfare Maximization in Fractional Hedonic Games	Haris Aziz, Serge Gaspers, Joachim Gudmundsson, Julián Mestre, Hanjo Täubig
			Main 1009	A Bargaining Mechanism for One-Way Games	Andres Abeliuk, Gerardo Berbeglia, Pascal Van Hentenryck
			Main 740	Convergence to Equilibria in Strategic Candidacy	Maria Polukarov, Svetlana Obraztsova, Zinovi Rabinovich, Alexander Kruglui, Nick Jennings
			Main 713	A Dictatorship Theorem for Cake Cutting	Simina Brânzei, Peter Bro B. Miltersen
			Main 1068	A Pseudo-Polynomial Algorithm for Computing Power Indices in Graph-Restricted Weighted Voting Games	Oskar Skibski, Tomasz P. Michalak, Yuko Sakurai, Makoto Yokoo
			Main 737	Strategic Candidacy Games with Lazy Candidates	Edith Elkind, Svetlana Obraztsova, Maria Polukarov, Zinovi Rabinovich
			Main 709	The Game-Theoretic Interaction Index on Social Networks With Applications to Link Prediction and Community Detection	Piotr Szczepa,ski, Tomasz P. Michalak, Talal Rahwan, Aleksy Barcz

WEDNESDAY, JULY 29TH

DAY 2

10:40 – 12:10	**ROOM LB3**	**Main 20** Natural Language Processing 3	**Main 1018**	Do we criticise (and laugh) in the same way? Multi-lingual automatic detection of satirical news in Twitter	Francesco Barbieri, Horacio Saggion, Francesco Ronzano
			Main 324	Reader-Aware Multi-Document Summarization via Sparse Coding	Piji Li, Lidong Bing, Wai Lam, Hang Li
			Main 1083	Towards Addressing the Winograd Schema Challenge – Building and Using Needed Tools	Arpit Sharma, Somak Aditya, Nguyen H. Vo, Chitta Baral
			Main 20	User Modeling with Neural Network for Review Rating Prediction	Duyu Tang, Bing Qin, Ting Liu
			Main 210	A Hybrid Neural Model for Type Classification of Entity Mentions	Li Dong, Furu Wei, Hong Sun, Ming Zhou, Ke Xu
			Main 335	Learning Term Embeddings for Hypernymy Identification	Zheng Yu, Haixun Wang, Xuemin Lin
			Main 238	Syntax-based deep matching of short texts	wang mingxuan, Lu Zhengdong, Li Hang, Qun Liu
10:40 – 12:10	**ROOM LP**	**KR8** KR Track: Conceptualization and causality	**KR29**	Efficiently Finding Conditional Instruments for Causal Inference	Benito van der Zander, Johannes Textor, Maciej Liskiewicz
			KR219	Query Understanding through Knowledge-Based Conceptualization	Zhongyuan Wang, Kejun Zhao, Haixun Wang, Xiaofeng Meng, Ji-Rong Wen
			KR232	Membership Constraints in Formal Concept Analysis	Sebastian Rudolph, Christian Sacarea, Diana Troanca
			KR325	A Modification of the Halpern-Pearl Definition of Causality	Joseph Halpern
			KR1550	Characterizing Causal Action Theories and Their Implementations in Answer Set Programming: Action Languages B, C and Beyond	Haodi Zhang, Fangzhen Lin
10:40 – 12:10	**ROOM R1**	**ML9** ML Track: Partial Label Learning	**ML82**	Weakly Supervised Matrix Factorization for Noisily Tagged Image Parsing	Yulei Niu, Zhiwu Lu, Ji-Rong Wen
			ML111	A Direct Boosting Approach for Semi-supervised Classification	Shaodan Zhai, Tian Xia, Zhongliang Li, Shaojun Wang
			ML305	Solving the Partial Label Learning Problem: An Instance-based Approach	Min-Ling Zhang, Fei Yu
			ML390	Maximum Entropy Semi-Supervised Inverse Reinforcement Learning	Julien Audiffren, Michal Valko, Alessandro Lazaric, Mohammad Ghavamzadeh
			ML431	Pre-release Prediction of Crowd Opinion on Movies	Xin Geng, Peng Hou
			ML580	Constrained Information-Theoretic Tripartite Graph Clustering to Identify Semantically Similar Relations	Chenguang Wang, Yangqiu Song, Dan Roth, Chi Wang, Jiawei Han, Heng Ji, Ming Zhang
			ML660	Extended Discriminative Random Walk: A Hypergraph Approach to Multi-View Multi-Relational Transductive Learning	Sai Nageswar Satchidanand, Harini Ananthapadmanaban, Balaraman Ravindran
10:40 – 12:10	**ROOM R2**	**Main 36** Multidisciplinary Topics and Applications	**Main 1417**	The Right to Obscure: a Mechanism and Initial Evaluation	Eric Huang, Jaron Lanier, Yoav Shoham
			Main 1362	Automated Geometry Theorem Proving for Human-Readable Proofs	Ke Wang, Zhendong Su
			Main 472	Combining Eye Movements and EEG to Enhance Emotion Recognition	Yifei Lu, Wei-Long Zheng, Bin-Bin Li, Bao-Liang Lu
			Main 133	Offline Sketch Parsing via Shapeness Estimation	Wu Jie, Changhu Wang, Liqing Zhang, Yong Rui
			Main 1404	A New Input Method for Human Translators: Integrating Machine Translation Effectively and Imperceptibly	Guoping Huang, Jiajun Zhang, Yu Zhou, Chengqing Zong
			Main 649	A Study of Human-Agent collaboration for Multi-UAV Coordination in Dynamic Environments	Sarvapali D Ramchurn, Joel E. Fischer, Yuki Ikuno, Feng Wu, Jack Flann, Antony Waldock
			Main 442	Handling Complex Commands for Service Robot Task Requests	Perera Vittorio, Manuela Veloso
			Main 1123	Algorithmic exam generation	Omer Geiger, Shaul Markovitch

DAY 2 WEDNESDAY, JULY 29TH

10:40 – 12:10	ROOM R3	**CS4** CS Track: Reasoning, Planning and Learning	**CS8**	α-min: a compact approximate solver for finite-horizon POMDPs	Yann Dujardin, Thomas Dietterich, Iadine Chades
			CS15	Online Mechanisms for Charging Electric Vehicles in Settings with Varying Marginal Electricity Costs	Keiichiro Hayakawa, Enrico H. Gerding, Sebastian Stein, Takahiro Shiga
			CS34	Multiple Instance Learning-based Birdsong Classification using Unsupervised Recording Segmentation	Jose F. Ruiz-Munoz, Mauricio Orozco-Alzate, G. Castellanos-Dominguez
			CS40	Optimal Electric Vehicle Charging Station Placement	Yanhai Xiong, Jiarui Gan, Bo An, Chunyan Miao, Ana L. C. Bazzan
			CS44	Reasoning about Connectivity Constraints	Christian Bessiere, Emmanuel Hebrard, George Katsirelos, Walsh Toby
			CS56	Secure Routing in Wireless Sensor Networks via POMDPs	Athirai A. Irissappane, Jie Zhang, Frans Oliehoek, Partha S. Dutta
12:10 – 12:30		**Poster 6**		**Poster 6**	
12:30 – 14:00		**Lunch 2**		**Lunch**	
14:00 – 15:00	**ROOM LB**	**Invited 3**	**Invited 3**	Invited Talk 3: Pete Wurman AI and Robotics: Tales from Kiva Systems	Pete Wurman
14:00 – 15:00	**ROOM R**	**Invited 4**	**Invited 4**	Invited Talk 4: Dr. Evgeniy Gabrilovich In Knowledge We Trust	Dr. Evgeniy Gabrilovich
15:00 – 15:10		**Transition 3**		Transition	
15:10 – 16:30	**ROOM GH**	**Ind3**	**Ind5**	Industry Session 3, Baidu Incorporation	
15:10 – 16:30	**ROOM GH**	**Ind3**	**Ind6**	Industry Session 3, Google Incorporation	
15:10 – 16:30	**ROOM LB1**	**Main 23** Game Theory 6	**Main 936**	Envy-free Sponsored Search Auctions with Budgets	Bo Tang, Jinshan Zhang
			Main 1246	Smooth UCT Search in Computer Poker	Johannes Heinrich, David Silver
			Main 1174	Limited Lookahead in Incomplete-Information Games	Christian Kroer, Tuomas Sandholm
			Main 1115	Structural Tractability of Shapley and Banzhaf Values in Allocation Games	Gianluigi Greco, Francesco Lupia, Francesco Scarcello
			Main 853	Incentivizing Peer Grading in MOOCs: An Audit Game Approach	Alejandro Carbonara, Anupam Datta, Arunesh Sinha, Yair Zick
			Main 786	SAT is an Effective and Complete Method for Solving Stable Matching Problems with Couples	Joanna Drummond, Perrault Andrew, Fahiem Bacchus
15:10 – 16:30	**ROOM LB2**	**Panel 1** *Session Chair: Michael Woodridge*	**Panel 1**	Panel: The Future of AI	
15:10 – 16:30	**ROOM LB3**	**Main 24** Planning 2	**Main 320**	Classical Planning with Simulations: Results on the Atari Video Games	Nir Lipovetzky, Miquel Ramirez, Hector Geffner
			Main 1098	Models of Action Concurrency in Temporal Planning	Jussi Rintanen
			Main 604	Sorting Sequential Portfolios in Automated Planning	Núñez Sergio, Daniel Borrajo, Carlos Linares López
			Main 1367	Exploiting Block Deordering for Improving Planners Efficiency	Lukas Chrpa, Fazlu Hasan Siddiqui
			Main 969	Delete Relaxations for Planning with State-Dependent Action Costs	Florian Geißer, Thomas Keller, Robert Mattmüller
15:10 – 16:30	**ROOM LP**	**KR7** KR Track: Epistemic logics	**KR157**	Only Knowing Meets Common Knowledge	Vaishak Belle, Gerhard Lakemeyer
			KR183	Epistemic equilibrium logic	Luis FariÐas del Cerro, Andreas Herzig, Ezgi Iraz Su
			KR190	Verification of Knowledge-Based Programs over Description Logic Actions	Benjamin Zarrieß, Jens Claßen
			KR227	Multi-Agent Only Knowing on Planet Kripke	Guillaume Aucher, Vaishak Belle

WEDNESDAY, JULY 29TH

DAY 2

15:10 - 16:30	**ROOM R1**	**Main 25** Constraint Optimization	**Main 112**	Finding Diverse Solutions of High Quality to Constraint Optimization Problems	Thierry Petit, Andrew C. Trapp
			Main 1141	Improving the Effectiveness of SAT-Based Preprocessing for MaxSAT	Jeremias Berg, Paul Saikko, Matti Järvisalo
			Main 482	Maximum Satisfiability using Cores and Correction Sets	Nikolaj Bjorner, Nina Narodytska
			Main 375	A Multicore Tool for Constraint Solving	Amadini Roberto, Maurizio Gabbrielli, Jacopo Mauro
15:10 - 16:30	**ROOM R2**	**Main 26** Heuristic Search 2	**Main 638**	Compositional Program Synthesis from Natural Language and Examples	Mohammad Raza, Sumit Gulwani, Natasa Milic-Frayling
			Main 301	ICBS: The Improved Conflict-based Search algorithm for Multi-Agent Pathfinding	Eli Boyarski, Ariel Felner, Roni Stern, Guni Sharon, Oded Betzalel, Solomon Shimony, David Tolpin
			Main 1460	Programming by Example for Text Normalization	Dileep Kini, Sumit Gulwani
			Main 81	A Fast Local Search for Mnimum Vertex Cover in Massive Graphs	Shaowei Cai
			Main 1464	A Fast Goal Recognition Technique based on Interaction Estimates	Yolanda Escudero Martin, Maria Dolores Rodriguez Moreno, David E. Smith
15:10 - 16:30	**ROOM R3**	**ML10** ML Track: Multi-view Learning	**ML55**	MUVIR: Multi-View Rare Category Detection	Zhou Dawei, Jingrui He, K. Selçuk Candan, Hasan Davulcu
			ML80	Dual-regularized Multi-view Outlier Detection	Handong Zhao, Yun Fu
			ML512	Multi-View Matrix Decomposition: A New Scheme for Exploring Discriminative Information	Cheng Deng, Zongting Lv, Wei Liu, Junzhou Huang, Dacheng Tao, Xinbo Gao
			ML529	Multi-Graph-View Learning for Complicated Object Classification	Jia Wu, Shirui Pan, Xingquan Zhu, Chenqqi Zhang
			ML639	Multi-view Self-Paced Learning for Clustering	Chang Xu, Dacheng Tao, Chao Xu
16:30 - 17:00		**Poster 7**		**Coffee and Poster 7**	
17:00 - 18:00	**ROOM GH**	**Ind4**	**Ind7**	Industry Session 4, Huawei Technologies Company Limited	
17:00 - 18:00	**ROOM GH**	**Ind4**	**Ind8**	Industry Session 4, BigML Incorportaion	
17:00 - 18:00	**ROOM LB1**	**Main 27** Multiagent Systems 2	**Main 1490**	Towards City-scale Mobile Crowdsourcing: Task Recommendations under Trajectory Uncertainties	Cen Chen, Shih-Fen Cheng, Archan Misra, Hoong Chuin Lau
			Main 376	A Scalable Interdependent Multi-Issue Negotiation Protocol for Energy Exchange	Muddasser Alam, Enrico H. Gerding, Alex Rogers, Sarvapali D. Ramchurn
			Main 1259	Spectrum-based Fault Localisation for Multi-Agent Systems	Lúcio Passos, Rui Abreu, Rosaldo J. F. Rossetti
17:00 - 18:00	**ROOM LB2**	**Main 28** Social Networks 2	**Main 665**	Personalized Ranking Metric Embedding for Next New POI Recommendation	Shanshan Feng, Tao Xu, Yifeng Zeng, Gao Cong, Yeow Meng Chee, Quan Yuan
			Main 1228	Nonnegative Matrix Tri-factorization with Graph Regularization for Community Detection in Social Networks	Yulong Pei, Nilanjan Chakraborty, Katia Sycara
			Main 889	Influence Maximization in Big Network: An Incremental Algorithm for Streaming Subgraph Influence Spread Estimation	Wei-Xue Lu, Peng Zhang, Chuan Zhou, Chunyi Liu, Li Gao
			Main 1059	CEIL: A scalable resolution limit free approach for detecting communities in large networks	Vishnu Sankar, Balaraman Ravindran, Shivashankar S.
17:00 - 18:00	**ROOM LB3**	**Main 61** Constraints, Satisfiability and Search 2	**Main 1187**	Solving QBF by Clause Selection	Mikolas Janota, Joao Marques-Silva
			Main 1376	On the empirical time complexity of random 3-SAT at the phase transition	Zongxu Mu, Holger H. Hoos
			Main 915	Multi-Pass High-Level Presolving	Kevin Leo, Guido Tack

DAY 2 WEDNESDAY, JULY 29TH

17:00 – 18:00	ROOM LP	**KR6** KR Track: Logic Programming	**KR5**	Partial Grounded Fixpoints	Bart Bogaerts, Joost Vennekens, Marc Denecker
			KR182	First-Order Disjunctive Logic Programming vs Normal Logic Programming	Yi Zhou
			KR223	Simplifying a Logic Program Using Its Consequences	Jianmin Ji, Hai Wan, Ziwei Huo, Zhenfeng Yuan
			KR253	Stable Model Semantics of Abstract Dialectical Frameworks Revisited: A Logic Programming Perspective	Mario Alviano, Wolfgang Faber
			KR308	Logic Program Termination Analysis Using Rule Sizes	Marco Calautti, Sergio Greco, Cristian Molinaro, Irina Trubitsyna
			KR69	Epistemic Quantified Boolean Logic: Expressiveness and Completeness Results	Francesco Belardinelli, Wiebe van der Hoek
17:00 – 18:00	ROOM R1	**Main 30** Main Track: Knowledge Representation, Reasoning and Logic 1	**Main 494**	Dissecting German Grammar and Swiss Passports: Open-Domain Decomposition of Compositional Entries in Large-Scale Knowledge Repositories	Marius Pasca, Hylke Buisman
			Main 1565	A Simple Probabilistic Extension of Modal Mu-calculus	Wanwei Liu, Lei Song, Ji Wang, Lijun Zhang
			Main 1370	Automatic Generation of Raven's Progressive Matrices	Ke Wang, Zhendong Su
			Main 483	The Complexity of MAP Inference in Bayesian Networks Specified Through Logical Languages	Denis Maua, Cassio P. de Campos, Fabio G. Cozman
			Main 758	On the Graded Acceptability of Arguments	Davide Grossi, Sanjay Modgil
17:00 – 18:00	ROOM R2	**ML11** ML Track: Reinforcement Learning 2	**ML15**	Reinforcement Learning from Demonstration through Shaping	Tim Brys, Anna Harutyunyan, Halit Bener Suay, Sonia Chernova, Matthew E. Taylor, Ann Nowé
			ML159	Potential Based Reward Shaping for Hierarchical Reinforcement Learning	Yang Gao, Francesca Toni
			ML316	Increasingly Cautious Optimism for Practical PAC-MDP Exploration	Liangpeng Zhang, Ke Tang, Xin Yao
			ML402	Direct Policy Iteration with Demonstrations	Jessica Chemali, Alessandro Lazaric
17:00 – 18:00	ROOM R3	**KR18** KR Track: Planning and Reasoning	**KR68**	Complexity Results in Epistemic Planning	Bolander Thomas, Martin Jensen, François Schwarzentruber
			KR154	Computation and Complexity of Preference Inference Based on Hierarchical Models	Nic Wilson, Anne-Marie George, Barry O'Sullivan
			KR191	Efficient Semantic Features for Automated Reasoning over Large Theories	Cezary Kaliszyk, Josef Urban, Jiri Vyskocil
			KR208	Fixed-parameter Tractable Reductions to SAT for Planning	Ronald de Haan, Martin Kronegger, Andreas Pfandler
18:00 – 19:00		**Poster 8**		**Poster 8**	
20:00 – 24:00		**Banquet**		**IJCAI 2015 Banquet**	

THURSDAY, JULY 30TH

DAY 3

Timetable	Place	Session	Paper ID	Title	Author/ Authors
08:30 - 9:30	**ROOM LB**	**Invited 10**	**Invited 10**	John McCarthy Award	Prof. Bart Selman
09:30 - 9:40	**ROOM LB**	**Transition 5**		Transition	
09:40 - 10:40	**ROOM C**	**ML17** ML Track: High-Dimensional Data 2	**ML61**	Intersecting Manifolds: Detection, Segmentation and Labeling	Shay Deutsch, Gerard Medioni
			ML119	Robust Subspace Segmentation by Simultaneously Learning Data Representations and Their Affinity Matrix	Xiaojie Guo
			ML248	Mirror Representation for Modeling View-specific Transform in Person Re-identification	Yingcong Chen, Wei-Shi Zheng, Jianhuang Lai
			ML363	Mixed Error Coding for Face Recognition with Mixed Occlusions	Ronghua Liang, Xiao-Xin Li
09:40 - 10:40	**ROOM GH**	**Main 75** Planning 3	**Main 661**	Factored Upper Bounds for Multiagent Planning Problems with Non-Factored Value Functions	Frans Oliehoek, Matthijs Spaan, Stefan Witwicki
			Main 755	Multi-Objective POMDPs with Lexicographic Reward Preferences	Kyle H Wray, Shlomo Zilberstein
			Main 1476	ASAP-UCT: Abstraction of State-Action Pairs in UCT	Ankit Anand, Aditya Grover, Mausam, Parag Singla
09:40 - 10:40	**ROOM LB1**	**Main 46** Sequential Decision Making	**Main 692**	Optimization of probabilistic argumentation with Markov Decision Models	Emmanuel Hadoux, Aurélie Beynier, Nicolas Maudet, Paul Weng, Anthony Hunter
			Main 209	Solving MDPs with Skew Symmetric Bilinear Utility Functions	Hugo Gilbert, Olivier Spanjaard, Paolo Viappiani, Paul Weng
			Main 1245	Stick-Breaking Policy Learning in DEC-POMDPs	Miao Liu, Christopher Amato, Xuejun Liao, Jonathan P. How, Lawrence Carin
			Main 671	Non-monotone Adaptive Submodular Maximization	Alkis Gotovos, Amin Karbasi, Andreas Krause
09:40 - 10:40	**ROOM LB2**	**Main 53** Main Track: Machine Learning 1	**Main 569**	Biclustering gene expressions using factor graphs and the max-sum algorithm	Matteo Denitto, Manuele Bicego, Alessandro Farinelli
			Main 1627	Correcting Covariate Shift with the Frank-Wolfe Algorithm	Junfeng Wen, Russell Greiner, Dale Schuurmans
			Main 63	Character-based Parsing with Convolutional Neural Network	Zheng Xiaoqing, Haoyuan Peng, Yi Chen
			Main 510	Revisiting Gaussian Process Dynamical Models	Jing Zhao, Shiliang Sun
			Main 530	Adaptive Discriminative Reordering Model for Statistical Machine Translation Based on Structure Learning	Biao Zhang, JinSong Su, JunFeng Yao
			Main 513	Joint Learning of Constituency and Dependency Grammars by Decomposed Cross-Lingual Induction	Wenbin Jiang, Qun Liu
09:40 - 10:40	**ROOM LB3**	**Main 64** Robotics and Vision 1	**Main 61**	Weakly Supervised RBM for Semantic Segmentation	Yong Li, Jing Liu, Yuhang Wang, Lu Han Qing
			Main 761	Toward Estimating Others' Transition Models Under Occlusion for Multi-Robot IRL	Bogert Kenneth, Prashant Doshi
			Main 1040	Logic-geometric programming: An optimization-based approach to combined task and motion planning	Marc Toussaint
09:40 - 10:40	**ROOM LP**	**KR14** KR Track: DL and Ontologies 4	**KR72**	Lightweight Temporal Description Logics with Rigid Roles and Restricted TBoxes	Víctor Gutiérrez-Basulto, Jean Christoph Jung, Thomas Schneider
			KR88	Schema.org as a Description Logic	Andre Hernich, Carsten Lutz, Ana Ozaki, Frank Wolter
			KR89	Ontology-Mediated Queries with Closed Predicates	Carsten Lutz, Inanc Seylan, Frank Wolter
			KR96	Computing Horn Rewritings of Description Logics Ontologies	Mark Kaminski, Bernardo C. Cuenca Grau

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09:40 - 10:40	**ROOM R1**	**Main 49** Recommender Systems 2	**Main 157**	Cross-Domain Collaborative Filtering with Review Text	Xin Xin, Zhirun Liu, Chin-Yew Lin, Heyan Huang, Xiaochi Wei
			Main 932	Sparse Probabilistic Matrix Factorization by Laplace Distribution for Collaborative Filtering	Liping Jing, Peng Wang
			Main 635	A Synthetic Approach for Recommendation: Combining Ratings, Social Relations and Reviews	Guang-Neng Hu, Xin-Yu Dai, Yunya Song, Shu-Jian Huang, Jia-Jun Chen
			Main 829	Optimal Greedy Diversity for Recommendation	Ashkan Azin, Branislav Kveton, Shlomo Berkovsky, Zheng Wen
			Main 264	Differentially Private Matrix Factorization	Jingyu Hua, Chang Xia, Sheng Zhong
09:40 - 10:40	**ROOM R2**	**Main 47** Constraints, Satisfiability and Search 3	**Main 440**	Compiling Constraint Networks into Multivalued Decomposable Decision Graphs	Frédéric Koriche, Jean-Marie J.M. Lagniez, Marquis Pierre, Samuel Thomas
			Main 1602	Statistical Regimes and Runtime Prediction	Barry Hurley, Barry O'Sullivan
			Main 1280	Exploiting the Structure of Unsatisfiable Cores in MaxSAT	Carlos Ansotegui, Frederic Didier, Joel Gabas
			Main 292	ReACTR: Realtime Algorithm Configuration through Tournament Rankings	Tadhg Fitzgerald, Yuri Malitsky, Barry O'Sullivan
			Main 360	Expressive Logical Combinators for Free	Pierre Geneves, Nabil Layaida, Alan Schmitt
09:40 - 10:40	**ROOM R3**	**ML18** ML Track: Ensemble Methods	**ML144**	Instance-wise Weighted Nonnegative Matrix Factorization for Aggregating Partitions with Locally Reliable Clusters	Xiaodong Zheng, Shanfeng Zhu, Junning Gao, Hiroshi Mamitsuka
			ML403	Robust Clustering Ensemble	Peng Zhou, Liang Du, Yi-Dong Shen
			ML428	Optimizing Locally Linear Classifiers with Supervised Anchor Point Learning	Xue Mao, Zhouyu Fu, Ou Wu, Weiming Hu
			ML612	Training-Time Optimization of a Budgeted Booster	Yi Huang, Brian Powers, Lev Reyzin
			ML648	An Efficient Classifier Based on Hierarchical Mixing Linear Support Vector Machines	Di Wang, Xiaoqin Zhang, Mingyu Fan, Xiuzi Ye
10:40 - 11:10		**Poster 9**		**Coffee and Poster 9**	
11:10 - 12:10	**ROOM C**	**ML19** ML Track: Sparsity	**ML23**	A New Simplex Sparse Learning Model to Measure Data Similarity for Clustering	Jin Huang, Feiping Nie
			ML199	Robust Dictionary Learning with Capped L1 Norm	Wenhao Jiang, Feiping Nie, Heng Huang
			ML284	Convergence of Common Proximal Methods for L1 Regularized Least Squares	Shaozhe Tao, Daniel Boley, Shuzhong Zhang
			ML291	Density Corrected Sparse Recovery when R.I.P. Condition is Broken	Ming Lin, Zhengzhong Lan, Alexander G. Hauptmann
			ML335	Data Sparseness in Linear SVM	Xiang Li, Bin Gu, Charles Ling, Huaimin Wang
			ML616	Efficient Generalized Conditional Gradient with Gradient Sliding for Composite Optimization	Cheung Yiu-ming, Jian Lou
11:10 - 12:10	**ROOM GH**	**Main 31** Planning 4	**Main 523**	Adversarial Hierarchical-Task Network Planning for Complex Real-Time Games	Santiago Ontañón Villar, Michael Buro
			Main 1128	Point-Based Planning for Multi-Objective POMDPs	Diederik Roijers, Shimon Whiteson, Frans Oliehoek
			Main 356	Exploratory Digraph Navigation using A*	Fabrice Mayran de Chamisso, Laurent Soulier, Michaël Aupetit
			Main 754	Optimal Policy Generation for Partially Satisfiable Co-Safe LTL Specifications	Bruno Lacerda, David Parker, Nick Hawes
11:10 - 12:10	**ROOM LB1**	**Sist4** Sister Track: Logic and Query	**Sist3**	How to Define Certain Answers (from KR'13)	Leonid Libkin
			Sist8	Description Logic Based Dynamic Systems: Modeling, Verification and Synthesis (from RR'13)	Diego Calvanese, Giuseppe de Giacomo, Marco Montali and Fabio Patrizi
			Sist11	When Are Description Logic Knowledge Bases Indistinguishable? (from KR'14)	Elena Botoeva, Roman Kontchakov, Vladislav Ryzhikov, Frank Wolter and Michael Zakharyaschev

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11:10 – 12:10	**ROOM LB2**	**Main 51** Constraints, Satisfiability and Search 4	**Main 312**	Automatic Dominance Breaking for Constraint Optimization Problems	Christopher Mears, Maria Garcia-de-la-Banda
			Main 1113	Combining Preference Elicitation and Search in Multiojbective State-Space Graphs	Nawal Benabbou, Patrice Perny
			Main 171	Improving the Efficiency of Dynamic Programming on Tree Decompositions via Machine Learning	Michael Abseher, Frederico Dusberger, Nysret Musliu, Stefan Woltran
			Main 1282	On the Resiliency of Unit Propagation to Max-Resolution	Andre Abrame, Djamal Habet
			Main 1100	On Constrained Boolean Pareto Optimization	Chao Qian, Yang Yu, Zhi-Hua Zhou
11:10 – 12:10	**ROOM LB3**	**Main 52** Main Track: Machine Learning 2	**Main 643**	Information Gathering in Networks via Active Exploration	Adish Singla, Eric Horvitz, Pushmeet Kohli, Ryen White, Andreas Krause
			Main 955	Multi-Label Active Learning: Query Type Matters	Sheng-Jun Huang, Songcan Chen, Zhi-Hua Zhou
			Main 467	Medical Synonym Extraction with Concept Space Models	Chang Wang, Liangliang Cao
			Main 712	Greedy Structure Search for Sum-Product Networks	Aaron Dennis, Dan Ventura
			Main 656	Active Learning from Crowds with Unsure Option	Jinhong Zhong, Ke Tang, Zhi-Hua Zhou
			Main 261	Auxiliary Information Regularized Machine for Multiple Modality Feature Learning	Yang Yang, Han-Jia Ye, De-Chuan Zhan, Yuan Jiang
11:10 – 12:10	**ROOM LP**	**KR15** KR Track: Datalog+/-	**KR49**	Combining Rewriting and Incremental Materialisation Maintenance for Datalog Programs with Equality	Boris Motik, Yavor Nenov, Robert E. F. Piro, Ian Horrocks
			KR128	Combining Existential Rules and Transitivity: Next Steps	Jean-François Baget, Meghyn Bienvenu, Marie-Laure Mugnier, Swan Rocher
			KR196	Characterization of the Expressivity of Existential Rule Queries	Sebastian Rudolph, Michaël Thomazo
			KR204	Combining Existential Rules with the Power of CP-Theories	Tommaso Di Noia, Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, Oana Tifrea-Marciuska
11:10 – 12:10	**ROOM R1**	**Main 29** Heuristic Search 3	**Main 904**	Interplanetary Trajectory Planning with Monte Carlo Tree Search	Daniel Hennes, Dario Izzo
			Main 684	H-Index Manipulation by Merging Articles: Models, Theory and Experiments	René van Bevern, Christian Komusiewicz, Rolf Niedermeier, Manuel Sorge, Toby Walsh
			Main 623	Model-based Genetic Algorithms for Algorithm Configuration	Carlos Ansotegui, Yuri Malitsky, Horst Samulowitz, Meinolf Sellmann, Kevin Tierney
11:10 – 12:10	**ROOM R2**	**Main 54** Agent and Multi-agent Systems 1	**Main 944**	Revenue Maximization Envy-free Pricing for Homogeneous Resources	Gianpiero Monaco, Piotr Sankowski, Qiang Zhang
			Main 255	Competitive Pricing for Cloud Computing in an Evolutionary Market	Bolei Xu, Tao Qin, Guoping Qiu, Tieyan Liu
			Main 621	Optimal Incremental Preference Elicitation during Negotiation	Tim Baarslag, Enrico H. Gerding
			Main 1401	Quantifying Robustness of Trust Systems Against Collusive Unfair Rating Attacks Using Information Theory	Dongxia Wang, Tim Muller, Jie Zhang, Yang Liu
11:10 – 12:10	**ROOM R3**	**Main 55** Main Track: Knowledge Representation, Reasoning and Logic 2	**Main 1112**	Finite Abstractions for the Verification of Epistemic Properties in Open Multi-Agent Systems	Francesco Belardinelli, Davide Grossi, Alessio Lomuscio
			Main 1500	From Raw Sensor Data to Detailed Spatial Knowledge	Peng Zhang, Jae Hee Lee, Jochen Renz
			Main 622	Formal Analysis of Dialogues on Infinite Argumentation Frameworks	Francesco Belardinelli, Davide Grossi, Nicolas Maudet
			Main 707	A Common-Sense Conceptual Categorization System Integrating Proxytypes and the Dual Process of Reasoning	Antonio Lieto, Daniele Paolo Radicioni, Valentina Rho
12:10 – 12:30		**Poster 10**		**Poster 10**	

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12:30 – 14:00		**Lunch 3**		**Lunch**	
14:00 – 15:00	**ROOM LB**	**Invited 5**	**Invited 5**	Invited Talk 5: Jon McCormack Art is a System	Jon McCormack
14:00 – 15:00	**ROOM R**	**Invited 6**	**Invited 6**	Invited Talk 6: Manuela M. Veloso Making Intelligent Mobile Service Robots a Reality	Manuela M. Veloso
15:00 – 15:10		**Transition 4**		Transition	
15:10 – 16:30	**ROOM C**	**AIA3** AI&Arts: Music, Language, Visual Arts	**AIA4**	Generating 1/f noise sequences as constraint satisfaction: the Voss constraint	Francois Pachet
			AIA25	Generating all Possible Palindromes from N-gram Corpora	Alexandre Papadopoulos, Pierre Roy, Jean-Charles Régin, Francois Pachet
			AIA40	Narrative Hermeneutic Circle: Improving Character Role Identification from Natural Language Text via Feedback Loops	Josep Valls-Vargas, Jichen Zhu, Santiago Ontanon
			AIA43	Evolving Ambiguous Images	Adriano Vinhas, João Correia, Penousal Machado, Aniko Ekart
15:10 – 16:30	**ROOM GH**	**Main 2** Natural Language Processing 4	**Main 51**	Modeling Mention, Context and Entity with Neural Networks for Entity Disambiguation	Yaming Sun, Duyu Tang, Lei Lin, Zhenzhou Ji, Xiaolong Wang
			Main 52	A Subspace Learning Framework for Cross-Lingual Sentiment Classification with Partial Parallel Data	Guangyou Zhou, Jun Zhao, Xiao Miao
			Main 251	Compressive Document Summarization via Sparse Optimization	Jin-ge Yao, Xiaojun Wan, Jianguo Xiao
			Main 744	Embedding Semantic Relations into Word Representations	Danushka Bollegala, Takanori Maehara, Ken-ichi Kawarabayashi
			Main 203	Word-error correction of continuous speech recognition based on Normalized Relevance Distance	Yohei Fusayasu, Katsuyuki Tanaka, Tetsuya Takiguchi, Yasuo Ariki
			Main 949	Convolutional Neural Networks for Text Hashing	Jiaming Xu, Peng Wang, Guanhua Tian, Bo Xu, Jun Zhao, Wei Hong Hao
15:10 – 16:30	**ROOM LB1**	**Main 39** Main Track: Ontologies	**Main 1114**	How to select one preferred assertional-based repair from inconsistent and uncertain Description Logic knowledge bases?	Salem Benferhat, Zied Bouraoui, Karim Tabia
			Main 347	{Unsupervised Learning of an IS-A Taxonomy from a Limited Domain-Specific Corpus	Daniele Alfarone, Jesse Davis
			Main 1600	Scalable Maintenance of Knowledge Discovery in an Ontology Stream	Freddy Lecue
			Main 464	Coherence Across Components in Cognitive Systems – One Ontology to Rule Them All	Gregor Behnke, Denis Ponomaryov, Marvin Rüdiger Georg Schiller, Pascal Bercher, Florian Nothdurft, Birte Glimm, Susanne Biundo
			Main 1294	Bootstrapping domain ontologies from Wikipedia: a uniform approach	Daniil Mirylenka, Andrea Passerini, Luciano Serafini
			Main 1497	An Ontology Matching Approach Based on Affinity-Preserving RandomWalks	Xiang Chuncheng
15:10 – 16:30	**ROOM LB2**	**Main 9** Social Choice Theory	**Main 1365**	Ranked Voting on Social Networks	Ariel D. Procaccia, Nisarg Shah, Eric Sodomka
			Main 297	Non-Myopic Negotiators See What's Best	Yair Zick, Yoram Bachrach, Ian Kash, Peter Key
			Main 57	Efficient, Private and epsilon-Strategyproof Elicitation of Tournament Voting Rules	Lee David
			Main 1101	Structure in Dichotomous Preferences	Edith Elkind, Martin Lackner
			Main 1179	Lie on the Fly: Practical Manipulation with Incomplete Information	Lihi Dery, Zinovi Rabinovich, Svetlana Obraztsova, Meir Kalech

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15:10 – 16:30	**ROOM LB3**	**Main 40** Graphical Models	**Main 1035**	A Unified Model for Unsupervised Opinion Spamming Detection Incorporating Text Generality	Yinqing Xu, Bei Shi, Wentao Tian, Wai Lam
			Main 1130	Pushing Forward Marginal MAP with Best-First Search	Radu Marinescu, Rina Dechter, Alexander Ihler
			Main 866	From Weighted to Unweighted Model Counting	Supratik Chakraborty, Dror Fried, Kuldeep Meel, Moshe Y. Vardi
			Main 141	Bayesian Modelling of Community-Based Multidimensional Trust in Participatory Sensing under Data Sparsity	Venanzi Matteo, Luke Teacy, Alex Rogers, Nick Jennings
			Main 337	Differential Semantics of Intervention in Bayesian Networks	Biao Qin
			Main 215	Indirect Causes in Dynamic Bayesian Networks Revisited	Alexander Motzek, Ralf Moeller
15:10 – 16:30	**ROOM LP**	**KR11** KR Track: Reasoning	**KR44**	MergeXplain: Fast Computation of Multiple Conflicts for Diagnosis	Kostyantyn Shchekotykhin, Dietmar Jannach, Thomas Schmitz
			KR226	A MaxSAT Algorithm Using Cardinality Constraints of Bounded Size	Mario Alviano, Carmine Dodaro, Francesco Ricca
			KR238	On the entailment problem for a logic of typicality	Richard Booth, Giovani Casini, Thomas Meyer, Ivan J. Varzinczak
			KR256	Bidirectional Constraints for Exchanging Data: Beyond Monotone Queries	Marcelo Arenas, Gabriel Diéguez, Jorge Pérez
			KR290	Did you know?: Mining Interesting Trivia for Entities from Wikipedia	Abhay Prakash, Manoj Kumar Chinnakotla, Dhaval Patel, Puneet Garg
15:10 – 16:30	**ROOM R1**	**Main 41** Planning 5	**Main 927**	Synthesis for LTL and LDL on finite traces	Giuseppe de Giacomo, Moshe Y. Vardi
			Main 789	Metareasoning for Planning Under Uncertainty	Christopher Lin, Andrey Kolobov, Ece Kamar, Eric Horvitz
			Main 1548	On the boundary of (un)decidability: decidable model-checking for a fragment of Resource Agent Logic	Natasha Alechina, Nils Bulling, Brian Logan, Hoang Nga Nguyen
			Main 108	Action2Activity: Recognizing Complex Activities from Sensor Data	Liu Ye, Liqiang Li Nie, Lei Han, Luming Zhang, David Rosenblum
			Main 1360	An Iterative Approach to Synthesize Data Transformation Programs	Bo Wu, Craig A. Knoblock
			Main 211	Estimating the Probability of Meeting a Deadline in Hierarchical Plans	Liat Cohen, Solomon Shimony, Gera Weiss
15:10 – 16:30	**ROOM R2**	**Main 42** Distributed Search/CSP/ Optimization	**Main 38**	Collective Biobjective Optimization Algorithm for Parallel Test Paper Generation	Minh Luan Nguyen, Siu Cheung Hui, Alvis C. M. Fong
			Main 1007	Probabilistic Inference Based Message-Passing For Resource Constrained DCOPs	Supriyo Ghosh, Akshat Kumar, Pradeep Varakantham
			Main 729	Applying Max-sum to Asymmetric Distributed Constraint Optimization	Roie Zivan, Tomer Parash, Yarden Naveh
			Main 415	Max-Sum Goes Private	Tamir Tassa, Roie Zivan, Tal Grinshpoun
15:10 – 16:30	**ROOM R3**	**ML-ISC2** ML Track: Invited Sister Conference Presentations 2	**ML-ISC5**	Employing Machine Learning to Help Verifying Research Hypotheses	Huan Liu
			ML-ISC6	The Democratization of Optimization	Kristian Kersting
			ML-ISC7	Tensor Methods: A New Paradigm for Training Probabilistic Models and Feature Learning	Animashree Anandkumar
			ML-ISC8	Discrete Chebyshev Classifiers	Elad Eban
16:30 – 17:00		**Poster 11**		**Coffee and Poster 11**	

DAY 3

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17:00 - 18:00	ROOM C	**KR13** KR Track: Belief Revision 1	**KR99**	On the Parameterized Complexity of Belief Revision	Andreas Pfandler, Stefan Rümmele, Johannes Wallner, Stefan Woltran
			KR134	An Extension-Based Approach to Belief Revision in Abstract Argumentation	Martin Diller, Adrian Haret, Thomas Linsbichler, Stefan Rümmele, Stefan Woltran
			KR146	Characterizability in Belief Revision	Jon Yaggie, György Turán
			KR326	On the Aggregation of Argumentation Frameworks	Jérôme Delobelle, Sébastien Konieczny, Srdjan Vesic
17:00 - 18:00	ROOM GH	**CS1** CS Track: Game theory and Optimization	**CS5**	Online Fair Division: analysing a Food Bank problem	Martin Aleksandrov, Haris Aziz, Serge Gaspers, Walsh Toby
			CS7	When Security Games Go Green: Designing Defender Strategies to Prevent Poaching and Illegal Fishing	Fei Fang, Peter Stone, Milind Tambe
			CS9	A Fast Combinatorial Algorithm for Optimizing the Spread of Cascades	Xiaojian Wu, Dan Sheldon, Shlomo Zilberstein
17:00 - 18:00	ROOM LB1	**Main 43** Constraints, Satisfiability and Search 5	**Main 1553**	Decomposition of the Factor Encoding for CSPs	Chavalit Likitvivatanavong, Wei Xia, Roland Yap
			Main 620	Packing Curved Objects	Ignacio Salas, Gilles Chabert
			Main 462	Efficient Operations on MDDs for building Constraint Programming Models	Guillaume Perez, Jean-Charles Regin
			Main 1026	Filtering Nogoods Lazily in Dynamic Symmetry Breaking During Search	Jimmy Lee, Zichen Zhu
17:00 - 18:00	ROOM LB2	**Main 44** Web and Knowledge-based Information Systems 1	**Main 1529**	Personalized Sentiment Classification Based on Latent Individuality of Microblog Users	Kaisong Song, Shi Feng, Wei Gao, Daling Wang, Ge Yu, Kam-Fai Wong
			Main 384	Reasoning with Style	Marti Bosch, Pierre Geneves, Nabil Layaida
			Main 1413	Short and Sparse Text Topic Modeling via Self-Aggregation	Xiaojun Quan, Chunyu Kit, Yong Ge, Sinno Jialin Pan
			Main 40	Semantic Concept Discovery for Large-Scale Zero-Shot Event Detection	Chang Xiaojun, Yi Yang, Eric Xing, Alexander Hauptmann, Yaoliang Yu
17:00 - 18:00	ROOM LB3	**Main 45** Robotics and Vision 2	**Main 1290**	Reduced Time-Expansion Graphs for Solving Cooperative Path Finding Sub-optimally	Pavel Surynek
			Main 993	Reactive Integrated Motion Planning and Execution	Andreas Hofmann, Enrique Fernandez-Gonzalez, Justin Helbert, Scott D. Smith, Brian C. Williams
			Main 883	Multi-Modality Tracker Aggregation: from Generative to Discriminative	Xiaoqin Zhang, Xiuzi Ye, Wei Li
			Main 1482	Graph-based Inverse Optimal Control for Robot Manipulation	Arunkumar Byravan, Monfort Mathew, Brian Ziebart, Byron Boots, Dieter Fox
17:00 - 18:00	ROOM LP	**KR12** KR Track: Answer Set Programming	**KR108**	Answer Update for Rule-based Stream Reasoning	Harald Beck, Minh Dao-Tran, Thomas Eiter
			KR173	On Knowledge Forgetting in Answer Set Programming	Jianmin Ji, Yisong Wang
17:00 - 18:00	ROOM R1	**Main 12** Game Theory 7	**Main 547**	Security Games with Information Leakage: Modeling and Computation	Haifeng Xu, Albert Xin Jiang, Arunesh Sinha, Zinovi Rabinovich, Shaddin Dughmi, Milind Tambe
			Main 1095	When Schwartz' Conjecture Holds	Matthias Mnich, Yash Raj Shrestha, Yongjie Yang
			Main 841	Equilibrium Analysis of Multi-Defender Security Games	Jian Lou, Yevgeniy Vorobeychik
			Main 1249	Approximate Nash equilibria with near optimal social welfare	Artur Czumaj, Michail Fasoulakis, Marcin Jurdzinski

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17:00 – 18:00	**ROOM R2**	**Main 74** Web Mining 2	**Main 416**	Tracking political elections on social media: Applications and Experience	Danish Contractor, Bhupesh Chawda, Sameep Mehta, L. Venkata Subramaniam, Tanveer A. Faruquie
			Main 614	Interest Inference via Structure-Constrained Multi-Source Multi-Task Learning	Xuemeng Song, Liqiang Li Nie, Luming Zhang, Tat-Seng Chua
			Main 919	Interactive Gender Inference with Integer Linear Programming	Shoushan Li, Jingjing Wang, Guodong Zhou
			Main 1440	Towards Domain-Specific SR: A Case Study from Geography	Sen W Shilad, Isaac Johnson, Rebecca Harper, Huy Mai, Samuel Horlbeck Olsen, Benjamin Mathers, Laura Souza Vonessen, Matthew Wright, Hecht Brent
			Main 257	A Clustering Algorithm for Massive Amount of Texts	Ming Liu, Bing Quan Liu, Xiang Nan Zhao, Xiao Long Wang
17:00 – 18:00	**ROOM R3**	**ML16** ML Track: Hashing	**ML70**	Learning to Hash on Partial Multi-Modal Data	Qifan Wang, Luo Si, Bin Shen
			ML154	Quantized Correlation Hashing for Fast Cross-modal Search	Botong Wu, Qiang Yang, Wei-Shi Zheng, Yizhou Wang, Jingdong Wang
			ML277	Ranking Preserving Hashing for Fast Similarity Search	Qifan Wang
			ML315	Semantic Topic Multimodal Hashing for Cross-media Retrieval	Di Wang, Xinbo Gao, Xiumei Wang, Lihuo He
			ML388	Optimal Bayesian Hashing for Efficient Face Recognition	Qi Dai, Jianguo Li, Jun Wang, Yu-Gang Jiang, Yurong Chen
18:00 – 19:00		**Poster 12**		**Poster 12**	

DAY 4

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Timetable	Place	Session	Paper ID	Title	Author/ Authors
08:30 - 10:10	ROOM C	**Jnl3** Journal Track: Multiagent & Logic	**Journal 7**	The Complexity of Manipulative Attacks in Nearly Single-Peaked Electorates (Extended Abstract)	Piotr Faliszewski, Edith Hemaspaandra, Lane A. Hemaspaandra
			Journal 8	On the Testability of BDI Agent Systems (Extended Abstract)	Michael Winikoff, Stephen Cranefield
			Journal 9	Constitutive and Regulative Specifications of Commitment Protocols: a Decoupled Approach (Extended Abstract)	Matteo Baldoni, Cristina Baroglio, Elisa Marengo, Viviana Patti
			Journal 5	Norms as a Basis for Governing Sociotechnical Systems: Extended Abstract	Munindar P. Singh,
			Journal 11	kLog: A Language for Logical and Relational Learning with Kernels (Extended Abstract)	Paolo Frasconi, Fabrizio Costa, Luc de Raedt, Kurt de Grave
			Journal 12	Data Complexity of Query Answering in Description Logics (Extended Abstract)	Diego Calvanese, Giuseppe de Giacomo, Domenico Lembo, Maurizio Lenzerini, Riccardo Rosati
08:30 - 10:10	ROOM GH	**Main 17** Web Mining 3	**Main 321**	Exploiting k-Degree Locality to Improve Overlapping Community Detection	Hongyi Zhang, Michael R. Lyu, Irwin King
			Main 131	Large Scale Homophyly Analysis in Twitter using a Twixonomy	Paola Velardi
			Main 158	Unsupervised Sentiment Analysis for Social Media Images	Yilin Wang, Suhang Wang, Jiliang Tang, Huan Liu, Baoxin Li
			Main 1593	A Unified Probabilistic Model of User Activities and Relations on Social Networking Sites	Yu Xiaofeng, Junqing Xie
			Main 74	Minimum Sum of Squared Smilarities for Large Scale Spectral Clustering	Djallel Bouneffouf
			Main 49	Re-Ranking Voting-Based Answers by Discarding User Behavior Biases	Xiaochi Wei, Heyan Huang, Chin-Yew Lin, Xin Xin, Xianling Mao
			Main 908	Deep Learning for Event-Driven Stock Prediction	Xiao Ding, Yue Zhang, Ting Liu, Junwen Duan
08:30 - 10:10	ROOM LB3	**Main 33** Satisfiability	**Main 426**	A Modularity-based Random SAT Instances Generator	Jesús Giráldez-Cru, Jordi Levy
			Main 107	Tractable Classes of Binary CSPs Defined by Excluded Topological Minors	David A Cohen, Martin C. Cooper, Peter Jeavons, Stanislav Zivny
			Main 1143	Prime Compilation of Non-Clausal Formulae	Alessandro Previti, Alexey Ignatiev, Antonio Morgado, Joao Marques-Silva
			Main 992	Efficient Model Based Diagnosis with Maximum Satisfiability	Joao Marques-Silva, Mikolas Janota, Alexey Ignatiev, Antonio Morgado
			Main 1149	Literal-Based MCS Extraction	Carlos Mencía, Alessandro Previti, Joao Marques-Silva
			Main 1016	An Exact Inference Scheme for MinSAT	Chu-Min Li, Felip Manya
08:30 - 10:10	ROOM LP	**KR9** KR Track: Belief revision 2	**KR35**	Trust-Sensitive Belief Revision	Aaron Hunter, Richard Booth
			KR135	AGM Meets Abstract Argumentation: Expansion and Revision for Dung Frameworks	Ringo Baumann, Gerhard Brewka
			KR159	Merging in the Horn fragment	Adrian Haret, Stefan Rümmele, Stefan Woltran
			KR246	AGM Revision of Beliefs about Action and Time	Marc Zee, Mehdi Dastani, Dragan Doder, Leendert van der Torre
			KR285	Belief Revision and Progression of Knowledge Bases in the Epistemic Situation Calculus	Christoph Schwering, Gerhard Lakemeyer, Maurice Pagnucco
			KR1322	Kernel Contraction and Base Dependence: A Theoretical Benchmark for Relevance	Mehrdad Oveisi, James Delgrande, Fred Popowich, Francis Jeffry Pelletier
			KR1488	Extending AGM Contraction to Arbitrary Logics	Zhiqiang Zhuang, Zhe Wang, Kewen Wang, James Delgrande

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08:30 - 10:10	**ROOM R1**	**Main 34** AI and Social Sciences	**Main 565**	Computer Science on the Move: Inferring Migration Regularities from the Web via Compressed Label Propagation	Fabian Hadiji, Martin Mladenov, Christian Bauckhage, Kristian Kersting
			Main 438	Emotions in Argumentation: an Empirical Evaluation	Mohamed Sahbi Benlamine, Maher Chaouachi, Serena Villata, Elena Cabrio, Claude Frasson, Fabien Gandon
			Main 395	Parliamentary Voting Procedures: Agenda Control, Manipulation and Uncertainty	Robert Bredereck, Jiehua Chen, Rolf Niedermeier, Toby Walsh
			Main 1512	A Deterministic Partition Function Approximation for Exponential Random Graph Models	Wen Pu, Jaesik Choi, Yunseong Hwang, Eyal Amir
			Main 449	Context-Independent Claim Detection for Argumentation Mining	Marco Lippi, Paolo Torroni
			Main 1357	Semi-Universal Portfolios with Transaction Costs	Dingjiang Huang, Yan Zhu, Bin Li, Shuigeng Zhou, Steven C. H. Hoi
			Main 1039	Bonus or Not? Learn to Reward in Crowdsourcing	Ming Yin, Yiling Chen
08:30 - 10:10	**ROOM R2**	**ML12** ML Track: Deep Learning 2	**ML42**	Gaussian Processes for High-Dimensional Regression: A Method Based on Deep Neural Networks	Wenbing Huang, Deli Zhao, Fuchun Sun, Huaping Liu, Edward Chang
			ML62	Deep Linear Coding for Fast Graph Clustering	Ming Shao, Sheng Li, Zhengming Ding, Yun Fu
			ML128	Robust Kernel Dictionary Learning using A Whole Sequence Convergent Algorithm	Huaping Liu
			ML246	Self-Adaptive Hierarchical Sentence Model	Han Zhao, Zhengdong Lu, Pascal Poupart
			ML313	Supervised Representation Learning: Transfer Learning with Deep Autoencoders	Fuzhen Zhuang, Xiaohu Cheng, Ping Luo, Sinno Jialin Pan, Qing He
			ML344	Adaptive dropout rates for learning with corrupted features	Jingwei Zhuo, Jun Zhu, Bo Zhang
			ML541	A Joint Optimization Framework of Sparse Coding and Discriminative Clustering	Zhangyang Wang, Yingzhen Yang, Shiyu Chang, Jinyan Li, Simon Fong, Thomas Huang
08:30 - 10:10	**ROOM R3**	**ML13** ML Track: Kernel Methods	**ML13**	A Graph Kernel based on Jensen-Shannon Representation	Bai Lu, Zhihong Zhang, Chaoyan Wang, Edwin Hancock
			ML145	Random Feature Mapping with Signed Circulant Matrix Projection	Chang Feng, Shizhong Liao
			ML216	Graph Invariant Kernels	Francesco Orsini, Paolo Frasconi, Luc de Raedt
			ML355	Robust Unsupervised Multiple Kernel Learning	Peng Zhou, Liang Du, Yi-Dong Shen
			ML401	Training-Efficient Feature Map for Shift-Invariant Kernels	Xixian Chen, Haiqin Yang, Irwin King, Michael R. Lyu
			ML500	Nonparametric Independence Testing for Small Sample Sizes	Aaditya Ramdas, Leila Wehbe
			ML625	Robust Multiple Kernel K-means	Liang Du, Lei Shi
10:10 - 10:40		**Poster 13**		**Coffee and Poster 13**	

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10:40 - 12:10	**ROOM C**	**CS3** CS Track: Game Theory, Learning and Modeling	**CS11**	Aggregate Demand-Based Real-Time Pricing Mechanism for the Smart Grid: A Game-Theoretic Analysis	Sambaran Bandyopadhyay, Ramasuri Narayanam, Ramachandra Kota, Pg Dr Mohammad Iskandarbin Pg Hj Petra, Zainul M Charbiwala
			CS13	A Personalised Thermal Comfort Model using a Bayesian Network	Frederik Auffenberg, Sebastian Stein, Alex Rogers
			CS18	Batch Reinforcement Learning for Smart Home Energy Management	Heider Berlink, Anna Costa
			CS36	A Crowdfunding Model for Green Energy Investment	Ronghuo Zheng, Ying Xu, Nilanjan Chakraborty, Katia Sycara
			CS54	Abstract Routing Models and Abstractions in the Context of Vehicle Routing	René Schönfelder, Martin Leuker
			CS84	Approximately Stable Pricing for Coordinated Purchasing of Electricity	Andrew Perrault, Craig Boutilier
10:40 - 12:10	**ROOM GH**	**ML14** ML Track: Recommendation	**ML88**	Image Feature Learning for Cold Start Problem in Display Advertising	Kaixiang Mo, Bo Liu, Lei Xiao, Yong Li, Jie Jiang
			ML108	Ice-Breaking: Mitigating Cold-Start Recommendation Problem by Rating Comparison	Jingwei Xu, Yuan Yao, Hanghang Tong, Xianping Tao, Jian Lu
			ML109	A Space Alignment Method for Cold-Start TV Show Recommendations	Shiyu Chang, Jiayu Zhou, Pirooz Chubak, Junling Hu
			ML213	Mobile Query Recommendation via Tensor Function Learning	Zhou Zhao, Ruihua Song, Xing Xie, Xiaofei He
			ML352	Scalable Maximum Margin Matrix Factorization by Active Riemannian Subspace Search	Yan Yan, Mingkui Tan, Ivor W. Tsang, Qinfeng Shi, Yi Yang
10:40 - 12:10	**ROOM LB1**	**Sist3** Sister Track: User Modeling	**Sist5**	Examples and tutored problems: adaptive support using assistance scores (from UMAP'14)	Amir Shareghi Najar, Tanja Mitrovic and Bruce Mclaren
			Sist12	Adapting to User Preference Changes in Interactive Recommendation (from RecSys'14)	Negar Hariri, Bamshad Mobasher and Robin Burke
			Sist13	Trust-Guided Behavior Adaptation Using Case-Based Reasoning (from ICCBR'14)	Michael Floyd, Michael Drinkwater and David Aha
			Sist14	Matching and Grokking: Approaches to Personalized Crowdsourcing (from HCOMP'14)	Peter Organisciak, Jaime Teevan, Susan Dumais, Robert C. Miller and Adam Tauman Kalai
10:40 - 12:10	**ROOM LB2**	**Main 35** Web and Knowledge-based Information Systems 2	**Main 25**	Distance-Bounded Consistent Query Answering	Andreas Pfandler, Emanuel Sallinger
			Main 370	Online Learning to Rank for Content-Based Image Retrieval	Pengcheng Wu, Steven C. H. Hoi, Peilin Zhao, Ji Wan, Gao Xingyu, Dayong Wang
			Main 847	Raising Expectations in GDA Agents Acting in Dynamic Environments	Dustin Dannenhauer, Hector Munoz-Avila
			Main 1520	Determining Expert Research Areas with Multi-instance Learning of Hierarchical Multi-label Classification Model	Tao Wu, Qifan Wang, Zhiwei Zhang, Luo Si
			Main 1403	Hamming Compatible Quantization for Hashing	Zhe Wang, Ling-Yu Duan, Jie Lin, Xiaofang Wang, Tiejun Huang, Wen Gao
			Main 616	Deep Multimodal Hashing with Orthogonal Regularization	Daixin Wang, Peng Cui, Mingdong Ou, Wenwu Zhu
			Main 1419	Web Page Classification based on Uncorrelated Semi-supervised Intra-view and Inter-view Manifold Discriminant Feature Extraction	Qian Liu, Jing Xiao-Yuan, Wu Fei, Yangping Zhu
			Main 945	Scalable Graph Hashing with Feature Transformation	Qing-Yuan Jiang, Wu-Jun Li

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10:40 - 12:10	**ROOM LB3**	**Main 22** Planning 6	**Main 685**	Integrating Partial Order Reduction and Symmetry Elimination for Cost-Optimal Classical Planning	Martin Wehrle, Malte Helmert, Alexander Shleyfman, Michael Katz
			Main 160	MORRF/ : Sampling-Based Multi-Objective Motion Planning	Daqing Yi, Michael A Goodrich, Kevin D. Seppi
			Main 1197	A Privacy Preserving Algorithm for Multi-Agent Planning and Search	Brafman Ronen
			Main 1050	Simulation-Based Admissible Dominance Pruning	Alvaro Torralba, Joerg Hoffmann
			Main 1330	Optimal planning with axioms	Franc Ivankovic, Patrik Haslum
10:40 - 12:10	**ROOM LP**	**KR10** KR Track: Reasoning about actions and planning	**KR129**	Allegro: Belief-based Golog in Stochastic Dynamical Domains	Vaishak Belle, Hector Levesque
			KR184	On the Progression of Knowledge and Belief for Nondeterministic Actions in the Situation Calculus	Liangda Fang, Yongmei Liu, Ximing Wen
			KR197	Automatic Verification of Partial Correctness of Golog Programs	Naiqi Li, Yongmei Liu
			KR229	A Complete Epistemic Planner without Epistemic Closed World Assumption	Rui Yang, Hai Wan, Liangda Fang, Yongmei Liu, Huada Xu
			KR322	Policies that Generalize: Solving Many Planning Problems with the Same Controller	Bonet Blai, Hector Geffner
			KR323	Towards Fully Observable Non-deterministic Planning as Assumption-based Reactive Synthesis	Nicolas D'Ippolito, Sebastian Sardina
			KR18	On the Undecidability of the Situation Calculus Extended with Description Logic Ontologies	Diego Calvanese, Giuseppe de Giacomo, Mikhail Soutchanski
10:40 - 12:10	**ROOM R1**	**Panel 2** *Session Chair: Qiang Yang*	**Panel2**	Panel: Rethinking Turning Test	
10:40 - 12:10	**ROOM R2**	**Main 38** Agent and Multi-agent Systems 2	**Main 67**	Generalizing the single-crossing property on lines and trees to intermediate preferences on median graphs	Adam D. Clearwater, Clemens Puppe, Arkadii Slinko
			Main 402	Optimal mechanism design for partially rational bidders	Zihe Wang, Pingzhong Tang
			Main 1589	The Power of Local Manipulation Strategies in Assignment Mechanisms	Timo Mennle, Sven Seuken, Michael Weiss, Basil Philipp
			Main 300	Characterization of Scoring Rules with Distances: Application to the Clustering of Rankings	Paolo Viappiani
			Main 1316	An Adaptive Computational Model for Personalized Persuasion	Kang Yilin, Ah-Hwee Tan
			Main 1086	Efficiency and complexity of price competition among single-product vendors	Ioannis Caragiannis, Xenofontas Chatzigeorgiou, Panagiotis Kanellopoulos, George A. Krimpas, Nikos Protopapas, Alexandros A. Voudouris
			Main 956	Strategic Abstention based on Preference Extensions: Positive Results and Computer-Generated Impossibilities	Florian Brandl, Felix Brandt, Christian Geist, Johannes Hofbauer
			Main 1517	Exchange of Indivisible Objects with Asymmetry	Zhaohong Sun, Hideaki Hata, Taiki Todo, Makoto Yokoo

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10:40 - 12:10	ROOM R3	**ML15** ML Track: Online Learning and Sequential Data 2	**ML454**	An Expectation-Maximization Algorithm to Compute a Stochastic Factorization	Andre Barreto, Rafael L. Beirigo, Joelle Pineau, Doina Precup
			ML325	Thompson Sampling for Budgeted Multi-armed Bandit	Yingce Xia, Haifang Li, Tao Qin, Tie-Yan Liu
			ML394	Count-Based Frequency Estimation with Bounded Memory	Marc Bellemare
			ML434	Bi-parameter Space Partition for Cost-Sensitive SVM	Bin Gu, Victor S. Sheng
			ML559	Fast Cross-Validation for Incremental Learning	Pooria Joulani, Andras Gyorgy, Csaba Szepesvari
			ML573	Online Robust Low Rank Matrix Recovery	Xiaojie Guo
			ML293	A Geometric Theory of Feature Selection and Distance-Based Measures	Kilho Shin, Adrian Pino Angulo
12:10 - 12:30		**Poster 14**		**Poster 14**	
12:30 - 14:00		**Lunch 4**		**Lunch**	
14:00 - 15:00	**ROOM LB**	**Invited 7**	**Invited 7**	Invited Talk 7: Dr. Steve Chien Using Constraint-based Search to Schedule Science Campaigns for the Rosetta Orbiter	Dr. Steve Chien
14:00 - 15:00	**ROOM R**	**Invited 8**	**Invited 8**	Invited Talk 8: Michael L. Littman Programming agents via rewards	Michael L. Littman
15:00 - 15:30		**Poster 15**		**Coffee and Poster 15**	
15:30 - 16:50	**ROOM C**	**AIA4** AI&Arts: Music, Poetry, Visual Arts	**AIA17**	Aesthetic Visual Quality Evaluation of Chinese Handwritings	Rongju Sun, Zhouhui Lian, Yingmin Tang, Jianguo Xiao
			AIA37	Artificial Intelligence in the Concertgebouw	Andreas Arzt, Harald Frostel, Thassilo Gadermaier, Martin M Gasser, Gerhard Widmer, Maarten Grachten
			AIA45	Swarm-based Visualisation of Consumption Patterns	Catarina Maçãs, Penousal Machado
			AIA53	Haiku Generator That Reads Blogs and Illustrates Them with Sounds and Images	Rafal Rzepka, Kenji Araki
15:30 - 16:50	**ROOM GH**	**Main 32** Natural Language Processing 5	**Main 529**	Modeling Quantum Entanglements in Quantum Language Models	Mengjiao Xie, YueXian Hou, Peng Zhang, Jingfei Li, Wenjie Li, Dawei Song
			Main 1595	On Conceptual Labeling of a Bag of Words	Xiangyan Sun, Yanghua Xiao, Haixun Wang, Wei Wang
			Main 100	Linking Heterogeneous Input Features with Pivots for Domain Adaptation	Zhou Guangyou, Zhao Jun, Cai Li
			Main 247	Positive, Negative or Neutral: Learning an Expanded Opinion Lexicon from Emoticon-annotated Tweets	Felipe Bravo-Marquez, Eibe Frank, Bernhard Pfahringer
			Main 842	Incorporating Domain and Sentiment Supervision in Representation Learning for Domain Adaptation	Biao Liu, Minlie Huang
			Main 903	Target-dependent Twitter Sentiment Classification with Rich Automatic Features	Tin Vo, Yue Zhang
15:30 - 16:50	**ROOM LB1**	**Main 56** Agent and Multi-agent Systems 3	**Main 1341**	Agile Planning for Real-World Disaster Response	Feng Wu, Sarvapali D. Ramchurn, Wenchao Jiang, Joel Fischer, Tom Rodden, Nick Jennings
			Main 1157	Structural Results for Cooperative Decentralized Control Models	Jilles Dibangoye, Olivier Buffet, Olivier Simonin
			Main 1308	Towards Applying Interactive Dynamic Influence Diagrams to Real-Time Strategy Games	Ross Conroy, Yifeng Zeng, Marc Cavazza, Yingke Chen
			Main 1213	Composing and Verifying Commitment-Based Multiagent Protocols	Matteo Baldoni, Cristina Baroglio, Amit K. Chopra, Munindar P. Singh
			Main 1624	Solving the Station Repacking Problem	Alexandre Fréchette, Neil Newman, Kevin Leyton-Brown
			Main 735	Tractable inquiry in information-rich environments	Barbara Dunin-K, Plicz, Alina Strachocka

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15:30 – 16:50	**ROOM LB2**	**Main 57** Planning 7	**Main 1042**	Compiling Away Uncertainty in Strong Temporal Planning with Uncontrollable Durations	Andrea Micheli, Minh Do, David E. Smith
			Main 1028	Probabilistic Knowledge-Based Programs	Lang Jérôme, Bruno Zanuttini
			Main 1082	Further Connections between Contract-Scheduling and Ray-Searching Problems	Spyros Angelopoulos
			Main 1203	Temporal Planning with Semantic Attachment of Non-Linear Monotonic Continuous Behaviours	Josef Bajada, Maria Fox, Derek Long
			Main 935	Planning for Stochastic Games with Co-safe Objectives	Lei Song, Yuan Feng, Lijun Zhang
15:30 – 16:50	**ROOM LB3**	**Main 58** Recommender Systems 3	**Main 288**	Music Recommenders: User Evaluation Without Real Users?	Susan Craw, Ben Horsburgh, Stewart Massie
			Main 249	Modeling Users' Dynamic Preference for Personalized Recommendation	Xin Liu
			Main 334	AdaBPR: A Boosting Algorithm for Item Recommendation with Implicit Feedback	Yong Liu, Peilin Zhao, Aixin Sun, Chunyan Miao
			Main 458	Building Personal Ad Recommendation Systems for Life-Time Value Optimization with Guarantees	Georgios Theocharous, Philip Thomas, Mohammad Ghavamzadeh
			Main 239	Recommendation Algorithms for Optimizing Hit Rate, User Satisfaction and Website Revenue, User Satisfaction and Website Revenue	Xin Wang, Yunhui Guo, Congfu Xu
15:30 – 16:50	**ROOM LP**	**KR16** KR Track: Argumentation and Reasoning	**KR7**	Modelling the Persuadee in Asymmetric Argumentation Dialogues for Persuasion	Anthony Hunter
			KR85	Dealing with Generic Contrariness in Structured Argumentation	Pietro Baroni, Massimiliano Giacomin, Beishui Liao
			KR107	Extension Enforcement in Abstract Argumentation as an Optimization Problem	Sylvie Coste-Marquis, Sébastien Konieczny, Jean-Guy Mailly, Pierre Marquis
			KR186	Group Decision Making via Weighted Propositional Logic: Complexity and Islands of Tractability	Gianluigi Greco, Jérôme Lang
			KR206	Realizability of Three-Valued Semantics for Abstract Dialectical Frameworks	Joerg Puehrer
			KR211	On the Computational Complexity of Naive-based Semantics for Abstract Dialectical Frameworks	Sarah Gaggl, Sebastian Rudolph, Hannes Strass
			KR292	A Top-Down Compiler for Sentential Decision Diagram	Umut Oztok, Adnan Darwiche
15:30 – 16:50	**ROOM R1**	**Main 59** Knowledge Acquisition	**Main 1220**	AskWorld: Budget-Sensitive Query Evaluation for Knowledge-on-Demand	Mehdi Samadi, Partha Pratim Talukdar, Manuela Veloso, Tom Mitchell
			Main 1601	An approach for Improving RDF Data with Formal Concept Analysis	Mehwish Alam, Aleksey Buzmakov, Victor Codocedo, Amedeo Napoli,
			Main 422	Personalizing Product Rankings using Collaborative Filtering on Opinion-derived Topic Profiles	Claudiu C. Musat, Boi Faltings
			Main 867	Building Hierarchies of Concepts via Crowdsourcing	Yuyin Sun, Adish Singla, Dieter Fox, Andreas Krause
15:30 – 16:50	**ROOM R2**	**Main 60** Main Track: Machine Learning 3	**Main 1167**	Analysis of Sampling Algorithms for Twitter	Deepan Palguna, Vikas Joshi, Venkatesan Chakaravarthy, Ravi Kothari, L. Venkata Subramaniam
			Main 1498	Portfolio Choices with Orthogonal Bandit Learning	Weiwei Shen, Jun Wang, Yu-Gang Jiang
			Main 1223	Detecting Emotions in Social Media: A Constrained Optimization Approach	Yichen Wang, Aditya Pal
			Main 1193	Regression Model Fitting under Differential Privacy and Model Inversion Attack	Yue Wang, Cheng Si, Xintao Wu
			Main 181	Using a Recursive Neural Network to Learn an Agent's Decision Model for Plan Recognition	Francis Bisson, Hugo Larochelle, Froduald Kabanza

DAY 4 FRIDAY, JULY 31ST

15:30 – 16:50	ROOM R3	**ML20** ML Track: Graphical Models and Nonparametrics	**ML79**	EntScene: Nonparametric Bayesian Temporal Segmentation of Videos aimed at Entity-driven Scene Detection	Adway Mitra, Chiranjib Bhattacharyya, Soma Biswas
			ML147	EigenGP: Gaussian process models with adaptive eigenfunctions	Hao Peng, Yuan Qi
			ML193	Regularizing Flat Latent Variables with Hierarchical Topic Structures	Lin Rongcheng, Huayu Li, Xiaojun Quan, Yong Ge
			ML361	Data Compression for Learning MRF Parameters	Khaled Refaat, Adnan Darwiche
			ML451	Quiet: Faster Belief Propagation for Images and Related Applications	Yasuhiro Fujiwara, Dennis Shasha
			ML713	Topic Modeling with Document Relative Similarities Paper subtitle	Jianguang Du, Jing Jiang, Dandan Song, Lejian Liao
16:50 – 17:00		**Transition 6**		Transition	
17:00 – 18:00	ROOM C	**JnI4** Journal Track: Machine Learning Applications	**Journal 13**	Continuous Body and Hand Gesture Recognition for Natural Human-Computer Interaction: Extended Abstract	Yale Song, Randall Davis
			Journal 14	Algorithm Runtime Prediction: Methods & Evaluation (Extended Abstract)	Frank Hutter, Lin Xu, Holger Hoos, Kevin Leyton-Brown
			Journal 15	Framing Image Description as a Ranking Task: Data, Models and Evaluation Metrics (Extended Abstract)	Micah Hodosh, Peter Young, Julia Hockenmaier
			Journal 16	Measuring and Recommending Time-Sensitive Routes from Location-Based Data	Hsun-Ping Hsieh, Cheng-Te Li, Shou-De Lin
17:00 – 18:00	ROOM GH	**Main 37** Planning 8	**Main 499**	Mixed Discrete-Continuous Heuristic Generative Planning based on Flow Tubes	Enrique Fernandez-Gonzalez, Erez Karpas, Brian C. Williams
			Main 509	Tight Bounds for HTN planning with Task Insertion	Ron Alford, Pascal Bercher, David Aha
			Main 943	On the Effective Configuration of Planning Domain Models	Mauro Vallati, Frank Hutter, Lukas Chrpa, Thomas Leo McCluskey
			Main 1388	Polynomial-Time Reformulations of LTL Temporally Extended Goals into Final-State Goals	Jorge Torres, Jorge A. Baier
			Main 245	Exploiting Symmetries by Planning for a Descriptive Quotient	Mohammad Abdulaziz, Charles Gretton, Michael Norrish
17:00 – 18:00	ROOM LB1	**Main 72** Agent and Multi-agent Systems 4	**Main 828**	Uncovering Hidden Structure through Parallel Problem Decomposition for the Set Basis Problem: Application to Materials Discovery	Yexiang Xue, Stefano Ermon, Carla P Gomes, Bart Selman
			Main 1060	An Expert-Level Card Playing Agent Based on a Variant of Perfect Information Monte Carlo Sampling	Florian Wisser
			Main 1025	Tradeoffs between Incentive Mechanisms in Boolean Games	Vadim Levit, Zohar Komarovsky, Tal Grinshpoun, Amnon Meisels
			Main 271	Environment-driven social force model: Lévy walk pattern in collective behavior	Danyan Lv, Zhaofeng Li, Yichuan Jiang
17:00 – 18:00	ROOM LB2	**Main 63** Main Track: Machine Learning 4	**Main 248**	Mobility Profiling for User Verification with Anonymized Location Data	Miao Lin, Hong Cao, Vincent W. Zheng, Kevin C. Chang, Shonali Krishnaswamy
			Main 1581	On the Consistency of AUC Pairwise Optimization	Gao Wei, Zhi-Hua Zhou
			Main 1396	Opportunities or Risks to Reduce Labor Force in Crowdsourcing Translation? Characterizing Cost v.s. Quality in Balance	Rui Yan
			Main 1002	Cognitive Modelling for Predicting Examinee Performance	Runze Wu, Yuping Liu, Qi Liu, Enhong Chen, Yu Su, Zhigang Chen, Guoping Hu

FRIDAY, JULY 31ST

DAY 4

17:00 - 18:00	ROOM LB3	**Main 50** Natural Language Processing 6	**Main 1233**	Active Learning for Coreference Resolution	Mrinmaya Sachan, Eduard Hovy
			Main 980	Integrating Importance, Non-redundancy and Coherence Graph-based Extractive Summarization	Daraksha Parveen Michael Strube
			Main 894	Optimizing Sentence Modeling and Selection for Document Summarization	Wenpeng Yin, Yulong Pei
			Main 872	Convolutional Neural Tensor Network Architecture for Community-based Question Answering	Xipeng Qiu, Xuanjing Huang
17:00 - 18:00	ROOM LP	**KR17** KR Track: Temporal and spatial reasoning	**KR50**	Qualitative Reasoning about Directions in Semantic Spaces	Steven Schockaert, Jae Hee Lee
			KR81	An algebra of granular temporal relations	Quentin Cohen-Solal, Maroua Bouzid, Alexandre Niveau
			KR114	Efficiently Characterizing Non-Redundant Constraints in Large Real World Qualitative Spatial Networks	Michael Sioutis, Sanjiang Li, Jean-Francois Condotta
			KR287	Execution Monitoring as Meta-Games for General Game-Playing Robots	Rajaratnam David, Michael Thielscher
17:00 - 18:00	ROOM R1	**Main 62** Robotics and Vision 3	**Main 695**	Intelligent Agent Supporting Human-Multi-Robot Team Collaboration	Rosenfeld Ariel, Noa Agmon, Oleg Maksimov, Amos Azaria, Sarit Kraus
			Main 1466	Grounding the Meaning of Words through Vision and Interactive Gameplay	Natalie Parde, Adam Hair, Michalis Papakostas, Konstantinos Tsiakas, Maria Dagioglou, Vangelis Karkaletsis, Rodney Nielsen
			Main 861	Co-Acquisition of Spatial Language Syntax and Semantics	Michael Spranger, Luc Steels
			Main 727	Learning to Interpret Natural Language Commands through Human-Robot Dialog	Thomason Jesse, Shiqi Zhang, Raymond Mooney, Peter Stone
17:00 - 18:00	ROOM R2	**Main 48** Social Networks 3	**Main 1073**	Maximizing the Coverage of Information Propagation in Social Networks	Zhefeng Wang, Qi Liu, Yu Yang, Yong Ge, Enhong Chen, Biao Chang
			Main 213	A Scalable Community Detection Algorithm for Large Graphs Using Stochastic Block Models	Chengbin Peng, Zhihua Zhang, Ka-Chun Wong, Xiangliang Zhang, David Keyes
			Main 687	Network Representation Learning with Rich Text Information	Cheng Yang, Zhiyuan Liu, Deli Zhao, Maosong Sun, Edward Chang
17:00 - 18:00	ROOM R3	**ML21** ML Track: Relational Learning	**ML166**	Soft Predicate Invention with Structured Sparsity	William Yang Wang, Kathryn Mazaitis, William W. Cohen
			ML239	Identification of Time-Dependent Causal Model: A Gaussian Process Treatment	Biwei Huang, Kun Zhang, Bernhard Schölkopf
			ML275	Learning Regular Languages via Alternating Automata	Dana Angluin, Sarah Eisenstat, Dana Fisman
			ML466	Online Learning of k-CNF Boolean Functions	Joel Veness, Marcus Hutter, Laurent Orseau, Marc Bellemare
			ML692	Learning efficient logical robot strategies involving composable objects	Stephen Muggleton, Andrew Cropper
18:00 - 18:30		**Poster 16**		**Poster 16**	
18:30 - 20:00	**ROOM LB**	**ClosingEvent**		**Closing Event**	

Main conference venue

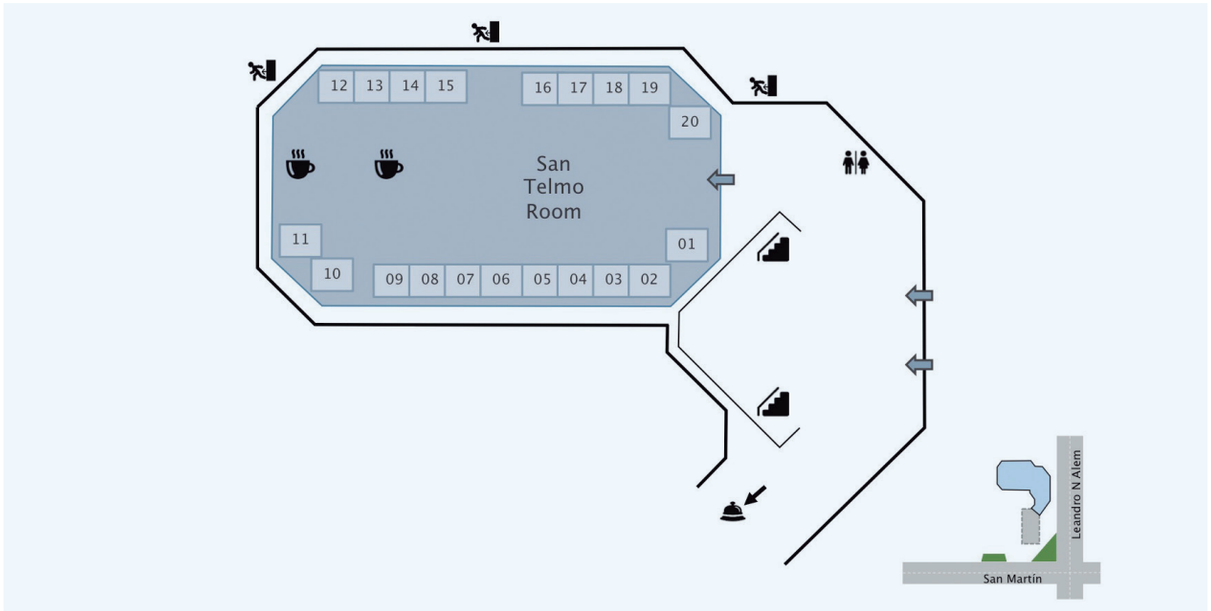
The IJCAI-15 will be held at the Sheraton Convetion Center (SCC) which is located close to the financial district, the main commercial attractions and important cultural and entertainment centers. It is 30 kilometers from Ministre Pistarini International Airport, Ezeiza, and 7 kilometers from Jorge Newbery Domestic Airport.
The Sheraton Convention Center offers the largest event facilities in the city. Their fifteen meeting rooms totaling 6,500 square meters can accommodate up to 9,000 guests. Their venues are ideal for conferences, exhibitions, and small events. Venues include audiovisual equipment, videoconferencing services, and simultaneous translation. Plus, their specially trained staff provides excellent food and beverage service.

Convenient Transportation

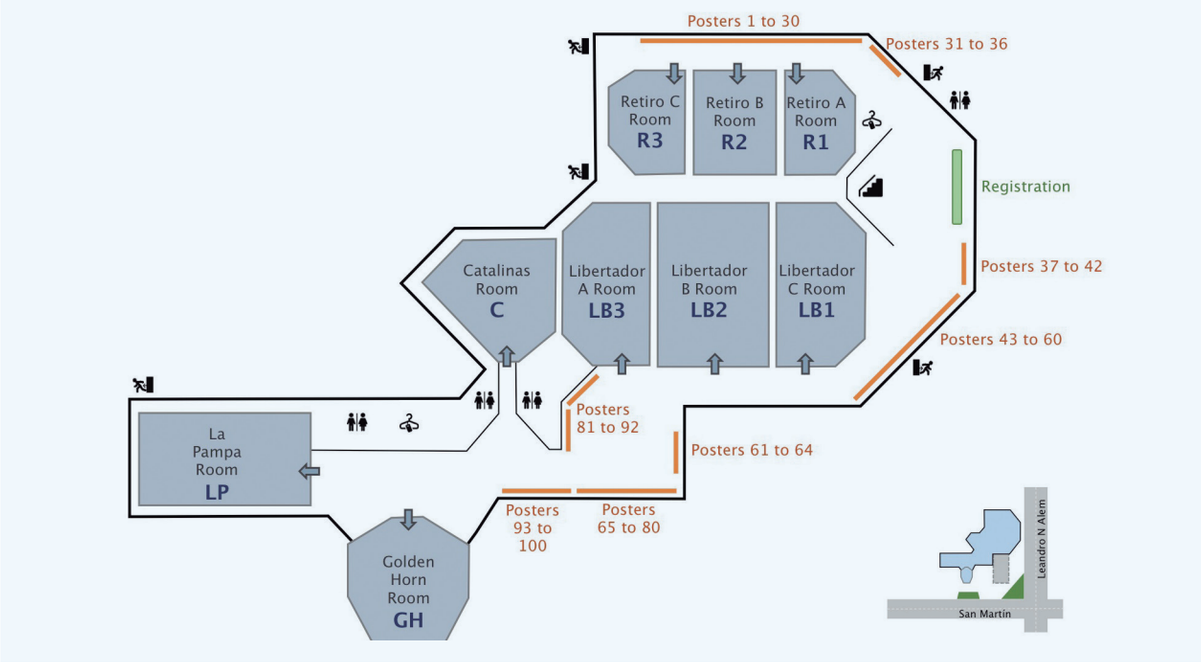
Sheraton Hotel is on San Martin street near of 9 Julio Avenue and Libertador Avenue, one of the principal thoroughfares in Buenos Aires. It is 34 kilometers from Ezeiza International Airport (EZE) and 6.5 kilometers from Jorge Newbery International Airport (AEP). On Wednesday there will be bus service from here to the Banquet location. In order to get the bus, you must show your ticket.

School of Law is on Figueroa Alcorta Avenue a major thoroughfare, with a length of over 7 km along the city's northside. It is 2.5 kilometers from Sheraton Hotel.
School of Economics is on Córdoba Avenue and is 3 kilometers from Sheraton Hotel. On Monday there will be bus service between here and School of Law in order to attend to the Opening Ceremony.

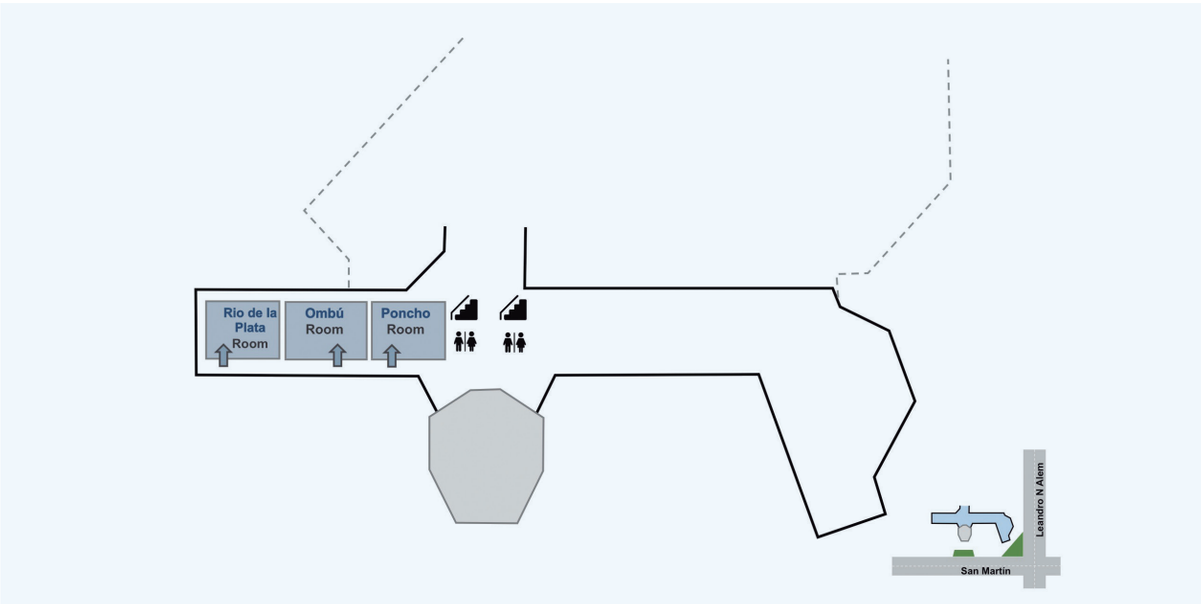
Sheraton - Lobby Level
Exhibition Room



Sheraton - 1st Floor
Room Map & Poster Distribution



Sheraton - 2nd Floor

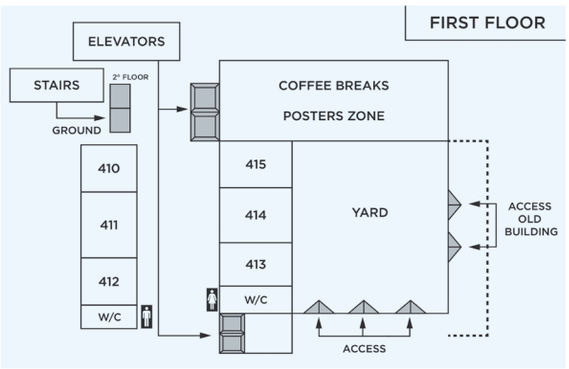


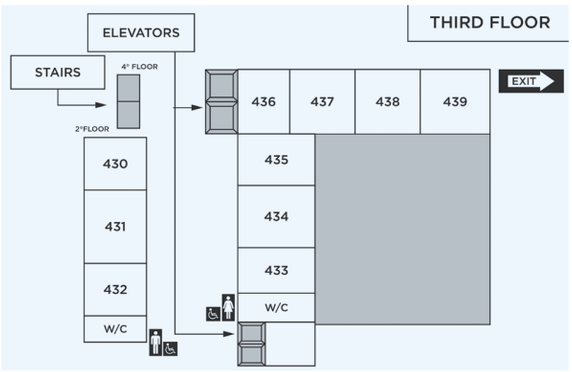
Workshops and tutorials venue

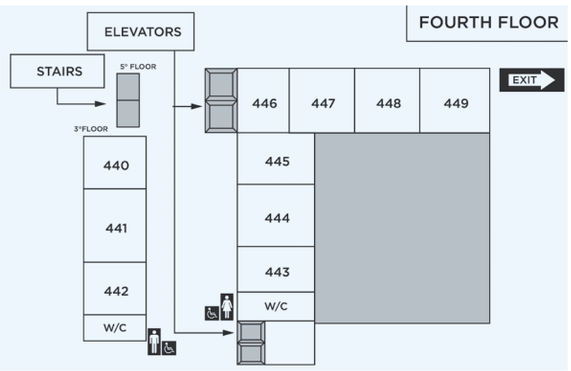
New Building of Facultad de Ciencias Económicas.
Uriburu Pres. José Evaristo Uriburu 781.

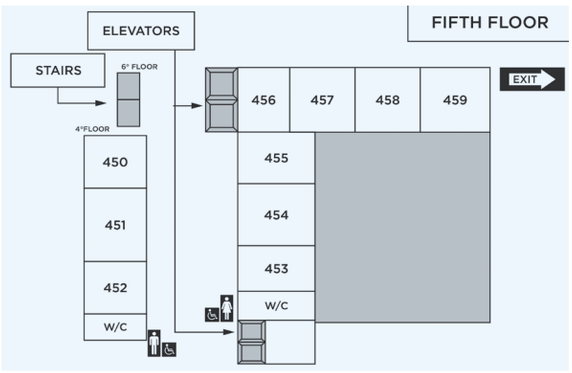
How to get Teaching Building

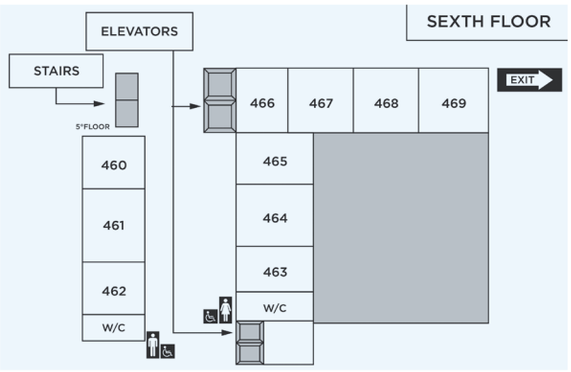
There are many of bus services that take you to the School. There are two Subway stations near the building: “Facultad de Medicina” of “D” Line and “Pasteur” of “B” Line. You can visit http://mapa.buenosaires.gob.ar in order to see all the options.
Entrance for attendees is around the corner from main building, at Uriburu Street.











IJCAI 2015 Opening & reception

July 27
19:00-21:30
School of Law
Figueroa Alcorta Avenue 2263

IJCAI 2015 Banquet

July 29
20:30-24:00
Señor Tango

How to get to

Opening ceremony
– On July 27, buses will depart from Sheraton Hotel and Convention Center and from School of Economics to School of Law starting at 18:00.
› Please, don't forget your badge.

Banquet
– On July 29, buses will depart from Sheraton Hotel and Convention Center to the Banquet location starting at 19:30.
› To get on the bus, please don't forget your banquet ticket.

Students Reception
– It will be hold in Tazz Soho, Armenia 1744, Palermo. The fastest way to arrive is Subway D Line. The nearest station is "Plaza Italia". Please enter to http://mapa.buenosaires.gob.ar to see the walk path and to search for other options.
› Please don't forget your Student Reception ticket.

Restaurants

There are many restaurants near the Sheraton Hotel and the School of Economics. In the bag provided at IJCAI registration there will be some suggestions near of each place. You could ask the volunteers too.

Terms and conditions disclaimer

(To be accepted at registration time)

Registration and Payment
– Registration must be processed throughout the Online Registration System.
– All payments must be made in USD($)
– All payments must be done by credit card or wire transfer.

Bank Details
– Name on Receiving Bank Account: IJCAI
– Receiving Bank Routing Number (SWIFT code): DEUTDE6FXXX
–IBAN Code: DE69 6807 0030 0140 0209 00
–Bank: Deutsche Bank
–Bank Address: DEUTSCHE BANK AG, Global Transaction Banking, Theodor-Heuss-Str. 3 D-70174 Stuttgart, Germany
–Payment reference: IJCAI-15 + Name of registered person + Paper_ID

Confirmation
– Once you submit your registration online, you will receive an email reply to confirm the registration, but your registration will still be in pending status until the payments have arrived. The registration status can be checked by clicking on the "Check Registration" button.
Invoicing
– Invoicing details must be indicated during the online registration process.
– Official receipt will be included in your conference package when you check in during the conference.
– E-invoices must be requested by e-mail to the Registration Services: registration@ijcai15.org
Cancellation and Changes
All cancellation must be sent to Registration Services by e-mail.
Any change of name will be dealt with as a cancellation and a new registration.
In case of cancellations until July 20, 2015, deposits will be refunded less 50 USD for administrative costs.
No refund will be made for cancellations received after July 20, 2015 or registrants who fail to attend.

Disclaimer
In case of conference cancellation for reasons beyond the control of IJCAI-15 organizers, the liability of the IJCAI-15 organizers is limited to the fees already paid by the registrants. IJCAI-15 organizers will not be responsible for any personal inconvenience that may arise.

General Disclaimer for Hotels and other service providers:
In offering the Sheraton and various other accommodations possibilities, Buenos Aires Airport, Buenos Aires Public Transportation and all other service providers (hereinafter referred to as "Supplier(s)") for the IJCAI-15, the IJCAI-15 organizers act only in the capacity of agent for the Suppliers and have no control over personnel, equipment or operations or providers of accommodations or other services included as part of the IJCAI-15 program. The IJCAI-15 organizers assume no responsibility for and will not be liable for any personal delay, inconvenience or other damage suffered by conference participants which may arise by reason of (1) any wrongful or negligent acts or omissions on the part of any Supplier or its employees, (2) any defect in or failure of any vehicle, equipment or instrumentality owned, operated or otherwise used by any Supplier, or (3) any wrongful or negligent acts or omissions on the part of any other party not under control, direct or otherwise, of the IJCAI-15 Organizers.

Photograph and video recording release:
For valuable consideration received, I hereby give the International joint conferences on Artificial Intelligence Organization the absolute and irrevocable right and permission, with respect to the photographs and video that will be taken of me during the IJCAI-15 held July 25-31, 2015 at the Sheraton Hotel and the Convention Center, in Buenos Aires, Argentina.

(1) To copyright the same in its own name or any other name that it may choose. (2) To use, re-use, publish, and re-publish the same in whole or in part, individually or in conjunction with other photographs or images or video recordings, in any medium and for any purpose whatsoever, including (but not by way of limitation) illustration, promotion, advertising and trade, and (3) To use my name in connection therewith if he/she so chooses.

I hereby release and discharge the Photographer/Cameraman, his/her heirs, executors, assigns and any designee (including any agency, client, broadcaster, periodical or other publication) from any and all claims and demands arising out of or in connection with the use of such photographs, film, or tape, including but not limited to any claims for defamation or invasion or privacy.

I am of legal age and have read the foregoing and fully understand the contents thereof.

Special meetings

Sunday, July 26

– IJCAI Trustees Meeting
08:30 - 18:30
Sheraton Hotel
ROOM PONCHO

Monday, July 27

– IJCAI Trustees Meeting
08:30 - 12:30
Sheraton Hotel
ROOM PONCHO

– IJCAI Executive Committee Meeting
13:30 - 18:30
Sheraton Hotel
ROOM OMBU

Tuesday, July 28

– AI Journal EB Lunch
12:30 - 14:00
Sheraton Hotel
ROOM OMBU

– International AI Societies Meeting
15:00 - 16:00
Sheraton Hotel
ROOM OMBU

– ECCAI General Assembly
16:00 - 18:00
Sheraton Hotel
ROOM OMBU

Wednesday, July 29

– Angry Birds Competition
All day. 9:00-18:00
Sheraton Hotel
ROOM OMBU

– JAIR EB Lunch
12:30 - 14:00
Sheraton Hotel
ROOM TBA

Thursday, July 30

– Angry Birds Competition
All day
Sheraton Hotel
ROOM OMBU

– ECCAI Fellows Lunch
12:30 - 14:00
Sheraton Hotel
ROOM TBA

– IJCAI Town Hall meeting
18:00 – 19:00
Sheraton Hotel
ROOM GH

Friday, July 31

– IJCAI-15 Wrap-up Meeting
09:30 – 10:30
Sheraton Hotel
ROOM PONCHO

– IJCAI-15 & IJCAI-16 Handover Meeting
10:30 – 11:30
Sheraton Hotel
ROOM PONCHO

– IJCAI Trustees Meeting
12:30 – 14:00
Sheraton Hotel
ROOM PONCHO

Internet

Free wireless internet access is available at the conference site and the workshops site. Access information will be provided at site.

Proceedings download information

Proceedings can be downloaded from:
ijcai.org/papers15/contents.php

IJCAI 2015 T-Shirts

IJCAI-15 T-shirts are available for sale at the registration desk.

IJCAI 2016

IJCAI-16 will be held in New York City, July 9-15, 2015.

New York City is, of course, one of the world's great cities. It has also become a major center for AI research. Academic AI research teams in the city include Columbia, New York University, City University, and others; Rutgers, Princeton, Yale, and SUNY Stony Brook are not far away. Industrial AI labs here include branches of the Facebook, Google, and IBM, together with many other companies, large and established or up and coming.

The conference will be held at the Hilton Hotel, in the center of midtown Manhattan. The conference reception will be held half a block away at The Museum of Modern Art, perhaps the greatest collection of 20th century art anywhere. The al fresco banquet will be in beautiful Central Park at the wonderful Central Park Zoo, a ten-minute walk away. Also within a ten minute walk of the hotel are Carnegie Hall, the Broadway theater district, Times Square, the Chrysler building, the New York Public Library, and shopping and restaurants galore. A further 20 minutes walk --- New York is a wonderful city for walking! --- in one direction or another, will get you to the Empire State Building, Lincoln Center for the Performing Arts, the Museum of Natural History, the Metropolitan Museum, the Frick Museum, and Madison Square Garden. And to list everything you could reach in a short subway ride would require a brochure much thicker than this one.

Come to IJCAI-16, and experience New York City's infinite richness and variety!

For further information, please contact one of the following:

Gerhard Brewka
Conference Chair, IJCAI-16
Intelligent Systems Dept.
University of Leipzig
Augustusplatz 10, Room P823
04109 Leipzig
Germany
brewka@informatik.uni-leipzig.de

Subbarao Kambhampati
Program Chair, IJCAI-16
Dept. of Computer Science and Engineering
Fulton School of Engineering
Arizona State University
Tempe, Arizona 85827-5406
rao@asu.edu

Ernest Davis
Chair, Local Arrangements Committee, IJCAI-16
New York University
251 Mercer St., Room 329
New York, NYU
davise@cs.nyu.edu

Berhard Nebel
IJCAI Secretary-Treasurer
Institut fur Informatik
Albert-Ludwigs-Universitat Freiburg
Gerogers-Kohler-Allee, Geb. 052
D-79130 Freiburg Germany
s-t@ijcai.org

Vesna Sabljakovic-Fritz
IJCAI Executive Secretary
University of Technology Vienna
Institute of Discrete Mathematics and Geometry
Wiedner Haupstr. 8-10
A-1040 Vienna, Austria
e-s@ijcai.org

NOTES

Conference at a glance

Day	Morning	Afternoon	Evening
25-July	Registration Workshops Tutorials	Registration Workshops Tutorials	
26-July	Registration Workshops Tutorials	Registration Workshops Tutorials	
27-July	Registration Workshops Tutorials Doctoral Consortium	Registration Workshops Tutorials Doctoral Consortium	Speed Dating and Opening Ceremony
28-July	Registration IJCAI technical program (Computers and Thought award talk, papers, posters) AI&Arts Demos IJCAI 2015 Distinguished Papers Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Registration IJCAI technical program (invited talks, papers, posters) AI&Arts Demos Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Games Night
29-July	Registration IJCAI technical program (papers, posters) AI&Arts Demos Industry Track Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Registration IJCAI technical program (invited talks, papers, posters, panel on 'Future of AI') AI&Arts Demos Industry Track Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Banquet
30-July	Registration IJCAI technical program (papers, posters) AI&Arts Demos Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Registration IJCAI technical program (invited talks, papers, posters) AI&Arts Demos IJCAI Community Meeting Best Papers in Sister Conferences Track Journals Track Angry Birds Competition Robot Exhibition Video Competition	Student Reception
31-July	Registration IJCAI technical program (John McCarthy Award Talk, papers, posters) AI&Arts Demos Best Papers in Sister Conferences Track Journals Track Angry Birds Award, Robot Exhibition Video Competition	Registration IJCAI technical program (invited talks, papers, posters, Panel) AI&Arts Demos Best Papers in Sister Conferences Track Journals Track Angry Birds Award Robot Exhibition Video Competition Closing Event	