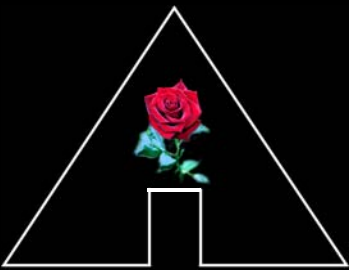


**IJCAI-09**

# Welcome to IJCAI-09

*Hiroaki Kitano*  
*Conference Chair*





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**July 11-17, 2009**

**The Interdisciplinary  
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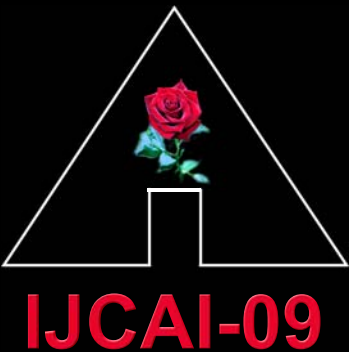


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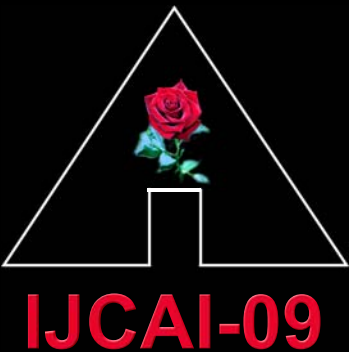
David E. Smith





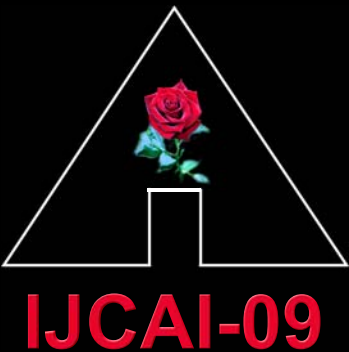
# Donald Michie (1923 – 2007)





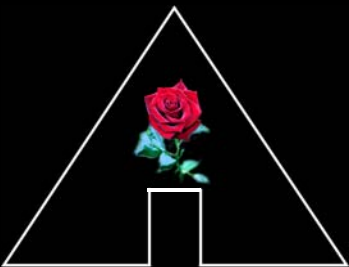
# **Oliver Selfridge (1926 – 2008)**





# David Cooper (1931-2009)



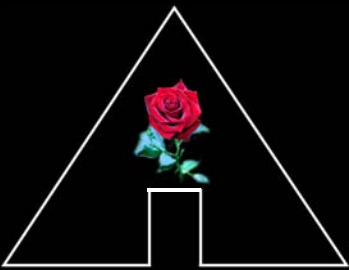


# In Memoriam

IJCAI-09







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**Karen Haigh**

**Program Chair  
IAAI-09**



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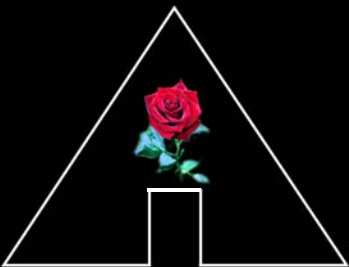
# Local Arrangements

*Richard Doyle*  
*Local Arrangements Chair*

- Southern California is home to the **aerospace** and **entertainment** industries
- Pasadena is home to **Caltech** and the **Jet Propulsion Laboratory**
- **Thanks** to the Local Arrangements Committee







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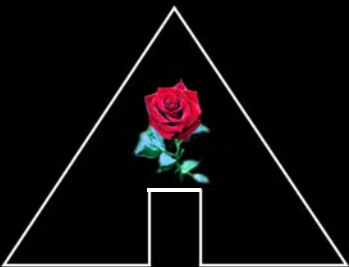
# Social Events

- Opening Reception at the  
**Caltech Athenaeum**



- Conference Banquet at the  
**California Science Center**



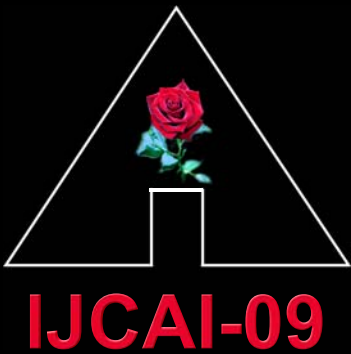


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# Technical Tours

- Jet Propulsion Laboratory
- University of Southern California
- Institute for Creative Technologies and Information Sciences Institute

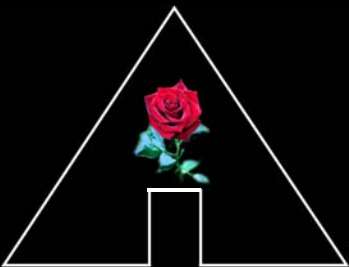




# Industry Day

- Friday, July 17
- Companies and institutions  
“tell their AI story”
- Emphasis on  
**Aerospace** and **Entertainment**
- Highlights include
  - **Agents** for SFX and immersive training
  - **QA** systems in game playing
  - Latest **search** engines





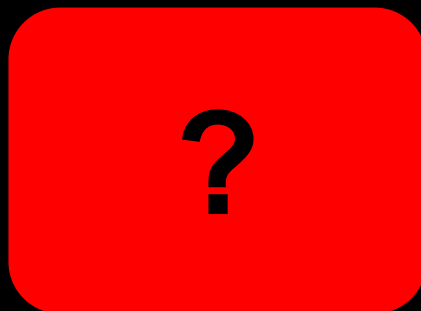
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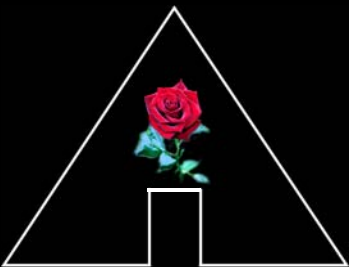
# Entertainment

- **Ka-Band** at the Opening Reception



- Vision-based interactive **Art Exhibit**





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**Charles Elachi**

**Director  
JPL**

**Welcome**

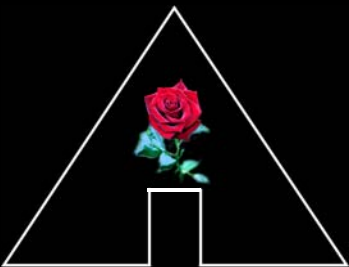


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**Bill Bogaard**

**Mayor  
Pasadena**

**Welcome**



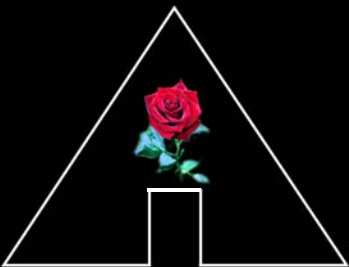
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**R. L. de Mantaras**

**President  
IJCAI**

**IJCAI Awards**

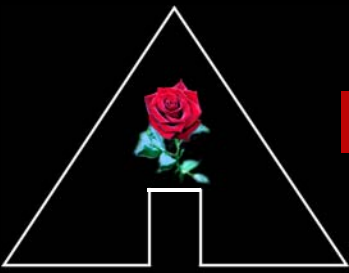


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# IJCAI-09 Research Excellence Award

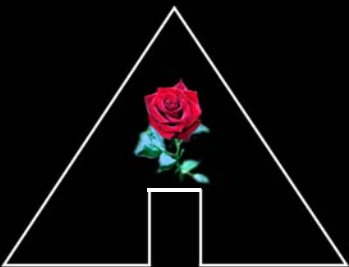
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## **Victor Lesser**



**Thursday 6:00 pm, East Pavilion**





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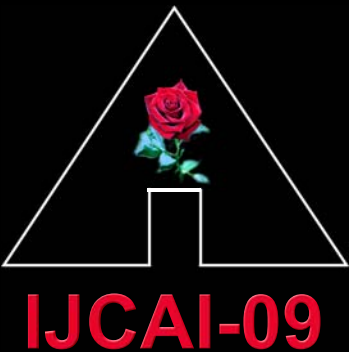


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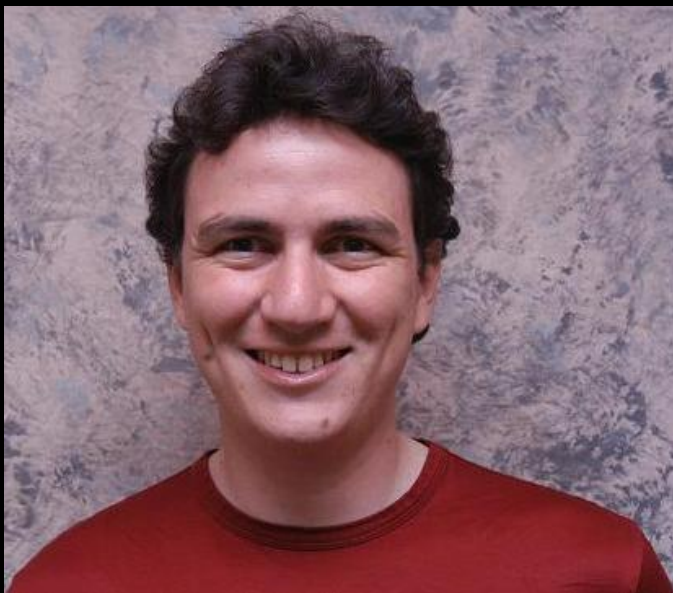
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# IJCAI-09 Computers & Thought Award

**Carlos Guestrin**



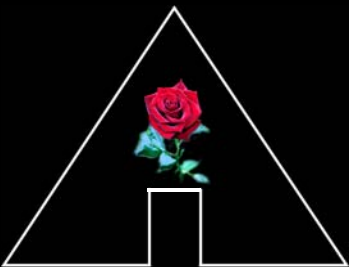
**Andrew Ng**



**Tuesday 5:30 PM, East Pavilion**

**Tuesday 6:15 PM, East Pavilion**





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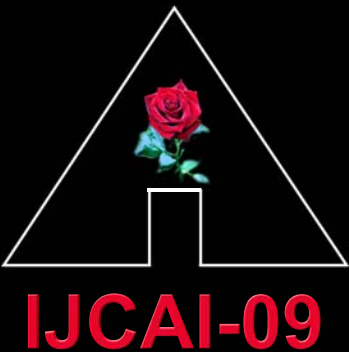
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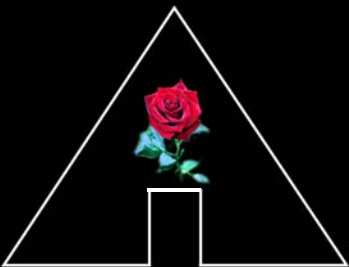


# IJCAI-09 Distinguished Service Award

**Luigia C. Aiello**







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**Adnan Darwiche**

**Editor-in-Chief  
JAIR**

**IJCAI-JAIR Prize**

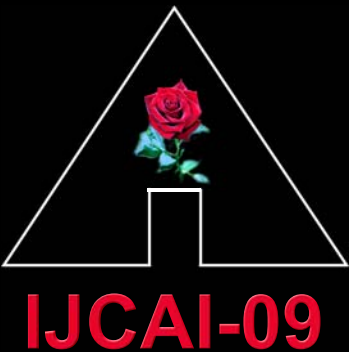


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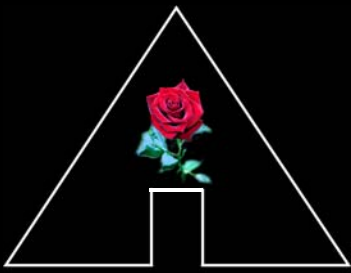
# Technical Program

*Craig Boutilier*  
*Program Chair*

## The Interdisciplinary Reach of Artificial Intelligence

- Papers, talks, workshops, tutorials:
  - virtually all aspects of computer science
  - assistive technologies, astronomy, astrophysics, biology, economics, ecology and environment, education, engineering design, graphic arts, medicine, music, physics, political theory, security, sociology, *and much more*



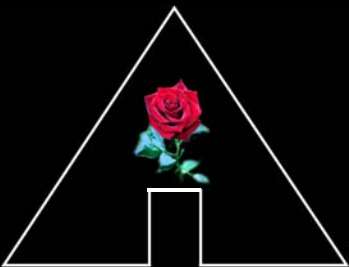


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## Some Statistics

- 33 workshops, 19 tutorials
- Paper submissions:
  - 1291 submissions from 55 countries
  - 331 papers accepted (25.6% rate)
  - 85 technical paper sessions
- Five invited talks, one invited panel
- A variety of colocated events and conferences



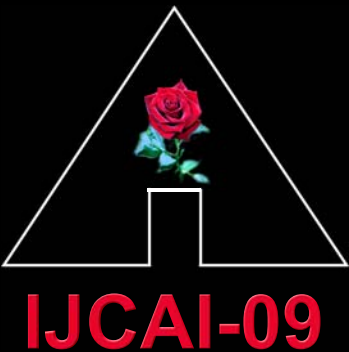


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# Technical Program at a Glance

	<b>Tuesday July 14</b>	<b>Wednesday July 15</b>	<b>Thursday July 16</b>	<b>Friday July 17</b>
<b>09:00-10:30</b>	<b>Hal Varian</b> <i>(start 9:15)</i>	<b>Luc Steels</b> 3 sessions	<b>Cristina Conati</b> 3 sessions	<b>Qiang Yang</b> 3 sessions
<b>10:30-11:00</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>
<b>11:00-12:30</b>	7 sessions	7 sessions	7 sessions	7 sessions
<b>12:30-14:00</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
<b>14:00-15:30</b>	7 sessions	<b>AI Futures Panel</b> 3 sessions	<b>Tom Dietterich</b> 3 sessions	7 sessions
<b>15:30-16:00</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>
<b>16:00-17:30</b>	7 sessions <i>(end 17:10)</i>	7 sessions	7 sessions	7 sessions
<b>Evening</b>	17:30-19:00 <b>Carlos Guestrin</b> <b>Andrew Ng</b>	19:00-22:30 <b>Conference Banquet</b>	18:00-19:00 <b>Victor Lesser</b>	





# Keynote Address

## Computer Mediated Transactions

Tues, 9:15-10:30, East Pavilion



*Hal R. Varian*  
*University of California, Berkeley*  
*Google*



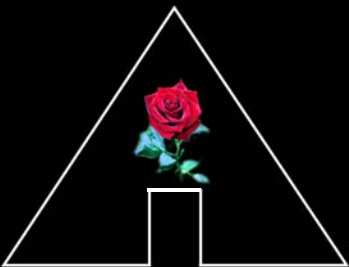


# Invited Talks/Panel

- Embodied Language Games with Autonomous Robots  
*European Coordinating Committee for AI (ECCAI) Invited Speaker*
  - *Luc Steels:* Wed, 9:00-10:05, Ballroom D/E
- Intelligent Tutoring Systems: New Challenges and Directions
  - *Cristina Conati:* Thurs, 9:00-10:05, Ballroom D/E
- Machine Learning in Ecosystem Informatics and Sustainability
  - *Thomas G. Dietterich:* Thurs, 14:00-15:05, Ballroom D/E
- From Low-level Sensors to High-level Intelligence: Activity Recognition Links the Knowledge Food Chain
  - *Qiang Yang:* Fri, 9:00-10:05, Ballroom D/E
- Panel: AAI Study on Long-Term AI Futures
  - *Eric Horvitz, Bart Selman (moderators)*
  - Wed, 14:00-15:00, Ballroom D/E





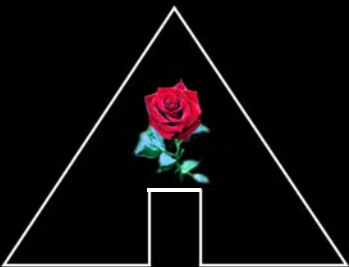


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# Colocated and Special Events

- 21<sup>st</sup> Intl. Conf. on Innovative Applications of AI (IAAI-09)
- 25<sup>th</sup> Intl. Conf. on Logic Programming (ICLP-09)
- 3<sup>rd</sup> IEEE Conf. on Space Mission Challenges for Information Technology (SMC-IT 2009)
- Symp. on Abstraction, Reformulation and Approximation (SARA 2009)
- Symp. on Combinatorial Search
- 2009 CRA-W Career Mentoring Workshop
- AAI/SIGART Doctoral Consortium
- 2009 Computer Poker Competition
- 10<sup>th</sup> Annual Trading Agent Competition (TAC-09)
  
- IJCAI-09 AI Video Competition
- IJCAI-09 Robotics Exhibition and Workshop
- IJCAI-09 Industry Day





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# IJCAI-09 Distinguished Papers

Learning Conditional Preference Networks with Queries

*Frederic Koriche and Bruno Zanuttini*

**Weds, 11:00-12:30 session**

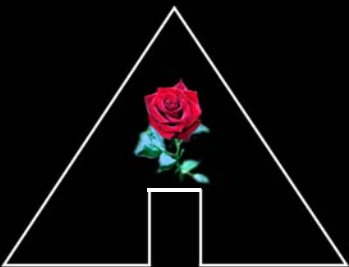
Consequence-Driven Reasoning for Horn SHIQ Ontologies

*Yevgeny Kazakov*

**Thurs, 11:00-12:30 session**

- *Prize sponsored by AIJ Division of IJCAI*
- *Eligible for fast track review in AIJ, JAIR*

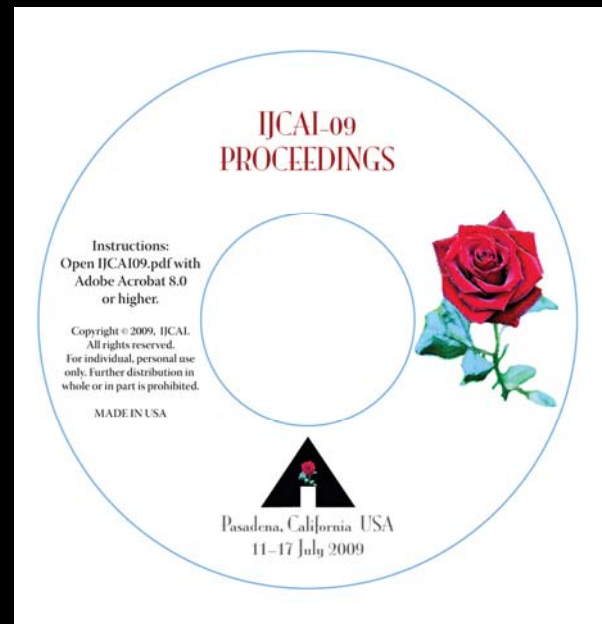


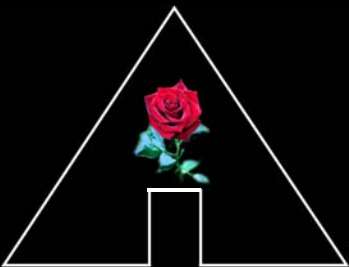


# IJCAI-09 Proceedings/AIJ Access

**IJCAI-09**

- Proceedings on CD
- Hard-copy available
  - 2168 pages in 3 volumes
- Proceedings available online
  - <http://www.ijcai.org/papers09/contents.php>
  - all past proceedings (1969-2009): [www.ijcai.org](http://www.ijcai.org)
- Free access to AI Journal since May 2008
  - sponsored by AIJ Division of IJCAI



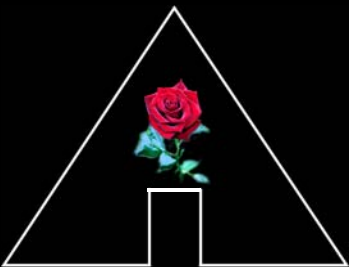


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# Special Thanks

- Tutorial Chair: Ronen Brafman
- Workshop Chair: Sylvie Thiebaut
- Program Committee
  - 22 Area Chairs
  - 91 Senior Program Committee members
  - approx. 600 Program Committee members
  - numerous auxiliary reviewers
- Conference Committee and IJCAI Trustees
- Past program chairs
- Thomas Preuss, Mike Hamilton, Sara Burns
- Keri Harvey, Josette Mausisa, Colleen Boyce





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# Some Guidelines

## Authors

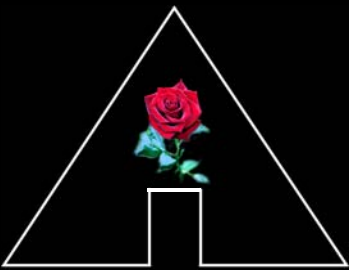
- Arrive prior to your session
- Introduce yourself to the session chair
- Ensure your talk fits in 22.5 minutes
- Leave time for questions

## Participants

- Be active, ask questions
- Take advantage of breaks to learn more about the research of your fellow delegates

***Enjoy IJCAI-09 and Pasadena!***





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