

IAAI-09 Preliminary Schedule

Monday, July 13

6:15 – 6:45 PM **IJCAI-09 Opening Ceremony**

7:15 – 9:00 PM **IJCAI-09 Opening Reception**
Caltech Athenaeum

Tuesday, July 14

9:00 – 10:30 AM **IJCAI-09 Keynote Address**
Computer Mediated Transactions
Hal R. Varian (University of California, Berkeley and Google)

10:30 – 11:00 AM **Coffee Break**

11:00 AM – 12:30 PM **IAAI-09: VIRTUAL HUMANS**
Creating Human-like Autonomous Players in Real-time First Person
Shooter Computer Games
Di Wang, Budhitama Subagdja, Ah-Hwee Tan, Gee-Wah Ng

11:30 AM – 12:30 PM

IAAI-09 Robert S. Engelmores Memorial Award Lecture

Building Virtual Humans: a Decade of Research
William Swartout (USC Institute for Creative Technologies)

12:30 – 1:30 PM **Lunch**

1:30 – 3:30 PM **IAAI-09: PERSONAL ASSISTANTS**
Pedagogical Discourse: Connecting Students to Past Discussions and
Peer Mentors within an Online Discussion Board
Jihie Kim, Erin Shaw

Task Assistant: Personalized Task Management for Military
Environments
Bart Peintner, Jason Dinger, Andres Rodriguez, Karen Myers

Learning by Demonstration to Support Military Planning and Decision
Making
*Thomas Garvey, Melinda Gervasio, Thomas Lee, Karen Myers, Carl
Angiolillo, Matthew Gaston, Janette Knittel, Jake Kolojejchick*

Evaluating User-Adaptive Systems: Lessons from Experiences with a
Personalized Meeting Scheduling Assistant
*Pauline M. Berry, Thierry Donneau-Golencer, Khang Duong, Melinda
Gervasio, Bart Peintner, Neil Yorke-Smith*

3:30 – 4:00 PM **Coffee Break**

4:00 – 5:30 PM

IAAI-09: FLYING MACHINES

An Emergency Landing Planner for Damaged Aircraft

Nicolas F. Meuleau, Christian J. Plaunt, David E. Smith, Tristan B. Smith

Online Learning of Spacecraft Simulation Models

Justin R. Thomas, Christoph F. Eick

An Ensemble Learning and Problem Solving Architecture for Airspace Management

Xiaoqin (Shelly) Zhang, Sungwook Yoon, Phillip DiBona, Darren Scott Appling, Li Ding, Janardhan Rao Doppa, Derek Green, Jinhong K. Guo, Ugur Kuter, Geoff Levine, Reid L. MacTavish, Daniel McFarlane, James R. Michaelis, Hala Mostafa, Santiago Ontañón, Charles Parker, Jainarayan Radhakrishnan, Anton Rebguns, Bhavesh Shrestha, Zhexuan Song, Ethan B. Trehwhitt, Huzaifa Zafar, Chongjie Zhang, Daniel Corkill, Gerald DeJong, Thomas G. Dietterich, Subbarao Kambhampati, Victor Lesser, Deborah L. McGuinness, Ashwin Ram, Diana Spears, Prasad Tadepalli, Elizabeth T. Whitaker, Weng-Keen Wong, James A. Hendler, Martin Hofmann, Kenneth Whitebread

5:30 – 6:15 PM

IJCAI-09 Computers and Thought Award Lecture

How Optimized Environmental Sensing Helps Address Information Overload on the Web

Carlos Guestrin (Carnegie Mellon University, USA)

6:15 – 7:00 PM

IJCAI-09 Computers and Thought Award Lecture

STAIR: The STanford Artificial Intelligence Robot Project

Andrew Y. Ng (Stanford University, USA)

Wednesday, July 15

8:30 – 10:30 AM

IAAI-09: SECURITY

Not So Naive Online Bayesian Spam Filter

Baojun Su, Congfu Xu

Trading Robustness for Privacy in Decentralized Recommender Systems

Zunping Cheng, Neil Hurley

TinyTermite: A Secure Routing Algorithm on Intel Mote 2 Sensor Network Platform

Mina Sartipi, Josh Patterson

Practical Attacks against Authorship Recognition Techniques

Michael Robert Brennan, Rachel Greenstadt

10:30 – 11:00 AM

Coffee Break

11:00 AM – 12:30 PM IAAI-09: VISION

A Data-Mining Approach to 3D Realistic Render Setup Assistance
Carlos Gonzalez-Morcillo, Lorenzo Manuel Lopez-Lopez, Jose Jesus Castro-Sanchez, Bernhard Moser

Automating Art Print Authentication Using Metric Learning
Charles Lincoln Parker, Paul Messier

Metropolitan Fixed Assets Change Judgment using Aerial Photographs (Deployed Application)
Hirokazu Koizumi, Hiroyuki Yagyu, Kazuaki Hashizume, Toshiyuki Kamiya, Kazuo Kunieda, Hideo Shimazu

12:30 – 1:30 PM Lunch

1:30 – 3:30 PM IAAI-09: SEMANTIC WEB

Archiving the Semantics of Digital Engineering Artifacts in CIBER-U (Deployed Application)
William C. Regli, Michael Grauer, David Wilkie, Joseph Kopena, Martin Piecyk, Jordan Osecki

Enabling Data Quality with Lightweight Ontologies (Deployed Application)
Clint R. Bidlack

2:30 – 3:30 PM

IAAI-09 INVITED TALK

Computational Knowledge, Science and Wolfram|Alpha
Stephen Wolfram (Wolfram Research)

3:30 – 4:00 PM Coffee Break

4:00 – 5:30 PM IAAI-09: SKETCHING

Automated Critique of Sketched Mechanisms
Jon William Wetzel, Kenneth D. Forbus

Automatic Generation of Personal Chinese Handwriting by Capturing the Characteristics of Personal Handwriting
Songhua Xu, Tao Jin, Hao Jiang, Francis C. M. Lau

Hashigo: A Next-Generation Sketch Interactive System for Japanese Kanji
Paul Taele, Tracy Hammond

7:00 – 10:30 PM IJCAI-09 Banquet

California Science Center, Exposition Park, Los Angeles

Thursday, July 16

9:00 – 10:30 AM

IAAI-09: HEALTH & BIO

Application of the Actor-Critic Architecture to Functional Electrical Stimulation Control of a Human Arm

Philip Sebastian Thomas, Michael Branicky, Antonie van den Bogert, Kathleen Jagodnik

BioPlanner: A Plan Adaptation Approach for the Discovery of Biological Pathways across Species

Li Jin, Keith S. Decker, Carl J. Schmidt

Estimating the Impact of Public and Private Strategies for Controlling an Epidemic: A Multi-Agent Approach

Christopher L. Barrett, Keith Bisset, Jonathan Leidig, Achla Marathe, Madhav Marathe

10:30 – 11:00 AM

Coffee Break

11:00 AM – 12:30 PM

IAAI-09: DOCUMENT RESTORATION

A Fully Automatic System for Restoration of Historical Document Images

Jie Wang, Michael S. Brown, Chew Lim Tan

11:30 AM – 12:30 PM

IAAI-09 Invited Talk

Human Computation

Luis von Ahn (Carnegie Mellon University)

12:30 – 1:30 PM

Lunch Break

1:30 – 3:30 PM

IAAI-09: SCHEDULING

Developing an End-to-End Planning Application from a Timeline Representation Framework

Amedeo Cesta, Gabriella Cortellessa, Simone Fratini, Angelo Oddi

Using AI to Solve Inspection Scheduling Problem for a Buying Office

Xianhao Zhou, Songshan Guo, Chan Hou Che, Brenda Cheang, Andrew Lim, Hubert Kreuter, Janet Chow

Simulation-based Optimization of Resource Placement and Emergency Response

Ronald Bjarnason, Prasad Tadepalli, Alan Fern, Carl Niedner

A Tool for Gas Turbine Maintenance Scheduling (Deployed Application)

Markus Bohlin, Kivanc Doganay, Per Kreuger, Rebecca Steinert, Mathias Wärja

3:30 – 4:00 PM

Coffee Break

4:00 – 6:00 PM

IAAI-09: BUSINESS

A Tool for Measuring the Reality of Technology Trends of Interest
Peter Z. Yeh, Colin A. Puri

Real-time Automatic Price Prediction for eBay Online Trading
Ilya Raykhel, Dan Ventura

An Agent-based Commodity Trading Simulation
Shih-Fen Cheng, Yee Pin Lim

Q-Strategy: Automated Bidding and Convergence in Computational Markets
Nikolay Nikolaev Borissov

6:00 – 7:00 PM

IJCAI-09 Research Excellence Lecture

Scaling AI Through Multi-Agent Organizations
Victor Lesser (University of Massachusetts Amherst, USA)