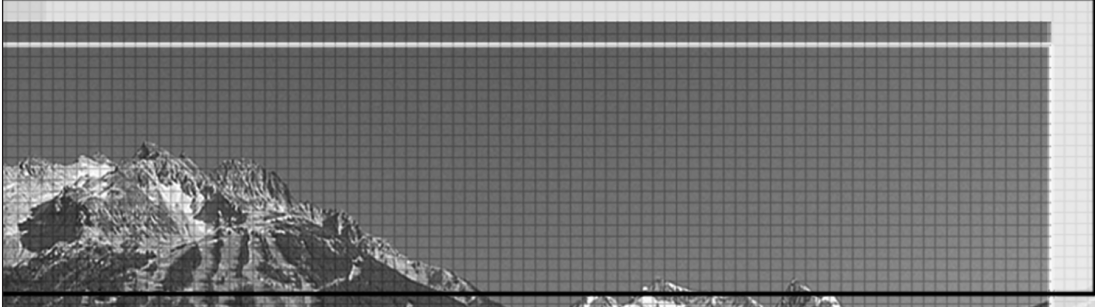




ICAPS 2004

14TH INTERNATIONAL CONFERENCE ON
AUTOMATED PLANNING & SCHEDULING



WHISTLER, BRITISH COLUMBIA, CANADA JUNE 3-7, 2004

www.icaps-conference.org/icaps04

CONFERENCE CO-CHAIRS

Shlomo Zilberstein, University of Massachusetts at Amherst
Sven Koenig, Georgia Institute of Technology
Jana Koehler, IBM Zurich Research Laboratory

CO-LOCATED WITH

International Planning Competition
International Conference on Principles of
Knowledge Representation and Reasoning (KR)
International Workshop on Description Logics (DL)
International Workshop on Nonmonotonic Reasoning (NMR)



Background Image © Rick Flebbe

DEADLINES

Workshop Proposals	September 16, 2003
Tutorial Proposals	
ICAPS Paper Submissions	October 28, 2003
Planning Competition Registration	January 27, 2004
Workshop Paper Submissions	February 17, 2004
Doctoral Consortium Applications	March 2, 2004
Software Demo Submissions	



Calendar of Events

July 2003

JUNE 30–JULY 3

LISA Forum Europe: Managing Content-Moving Markets. London, United Kingdom

- *Contact:*
Alison Rowles
SMP Marketing
7, route du Monastere
Fechy 1173
Switzerland
Voice: 41–21 821 32 10
E-mail: events@lisa.org
URL: www.lisa.org/events/2003uk/

JULY 2–4

IASTED International Conference on Modelling, Simulation, and Optimization. Banff, Canada, AB Canada

- *Sponsor:*
IASTED (International Association of Science and Technology for Development)
- *Contact:*
Kelli Stevens
International Association of Science and Technology for Development #80,
4500–16 Avenue NW
Calgary, AB T3B 0M6 Canada
Voice: 403-288-1195
E-mail: calgary@iasted.com
URL: iasted.org/conferences/2003/banff/mso.htm

JULY 14–18

Second International Joint Conference on Autonomous Agents and Multi-Agent Systems. Melbourne, Australia

- *Contact:*
Peter McBurney
University of Liverpool
Computer Science
Chadwick Building, Peach Street
Liverpool L69 7ZF United Kingdom
Voice: 44-151 794 6760
Fax: 44 -151 794 3715
E-mail: p.j.mcburney@csc.liv.ac.uk
URL: www.aamas-conference.org/

JULY 20–24

International Joint Conference on Neural Networks. Portland, OR

- *Sponsors:*
International Neural Network Society,

IEEE Neural Networks Society

- *Contact:*
Don Wunsch II
University of Missouri-Rolla
Department of Electrical and Computer Engineering
1870 Miner Circle
Rolla, MO 65409
Voice: 573-341-4521
Fax: 573-341-4532
E-mail: dwunsch@umr.edu
URL: www.ijcnn.net

August 2003

AUGUST 9–15

Eighteenth International Joint Conference on Artificial Intelligence. Acapulco, Mexico

- *Sponsors:*
IJCAI, SMIA, AAAI
- *Contact:*
Georg Gottlob
Technische Universitat Wien
Institut fur Info 184/2, Abteilung fur Datenbanken und AI
Favoritenstrabe 9.A-1040 Wien
Austria
Voice: +43-1-58801-1820
E-mail: pcchair03@ijcai.org
URL: www.ijcai-03.org/1024/

AUGUST 12–14

Fifteenth Annual Conference on Innovative Applications of Artificial Intelligence. Acapulco, Mexico

- *Sponsor:*
American Association for Artificial Intelligence
- *Contact:*
AAAI Conference Coordinator
AAAI
445 Burgess Drive
Menlo Park, CA 94025
Voice: 650-328-3123
E-mail: AAAI E-mail Form
URL: www.aaai.org/Conferences/IAAI/2003/iaai03.html

AUGUST 20–23

Seventeenth International Workshop on Qualitative Reasoning. Brasilia, Brazil

- *Contact:*
Paulo Salles
Universidade de Brasilia

Instituto de Ciências Biológicas
Campus Darcy Ribeiro
Brasilia DF, 70.910-900
Brazil
Voice: 00 55-61 348-2286
Fax: 00 55-61 272-1497
E-mail: paulo.bretas@uol.com.br
URL: monet.aber.ac.uk/QR2003

AUGUST 21–24

Twentieth International Conference on Machine Learning. Washington, DC

- *Sponsor:*
International Machine Learning Society
- *Contact:*
Tom Fawcett
HP Laboratories
MS 1143 1501 Page Mill Rd.
Palo Alto, CA 94304
Voice: 650-857-5879
Fax: 650-852-8137
E-mail: tom_fawcett@hp.com
URL: www.hpl.hp.com/conferences/icml03/

AUGUST 28–30

Fifth International Symposium on Intelligent Data Analysis (IDA 2003). Berlin, Germany

- *Contact:*
Andreas Nuernberger
University of California, Berkeley
EECS, Computer Science Division
Berkeley, CA 94720
Voice: 510-643-4524
Fax: 510-642-2845
E-mail: anuernb@eecs.berkeley.edu
URL: ida2003.org

September 2003

SEPTEMBER 15–18

International Workshop on Adaptive Multimedia Retrieval (AMR 2003). Hamburg, Germany

- *Sponsor:*
EUNITE
- *Contact:*
Andreas Nuernberger
University of California, Berkeley
EECS, Computer Science Division
Cory Hall 199MF
Berkeley, CA 94720
Voice: 510-643-4524
Fax: 510-642-2845
E-mail: anuernb@eecs.berkeley.edu
URL: www.cs.berkeley.edu/~anuernb/amr2003/

SEPTEMBER 26–30

International Conference on Computational Intelligence and Natural Computation. Cary, NC



Call for Papers

The 17th International FLAIRS Conference

The Palms South Beach Hotel
Miami Beach, FL

May 17-19, 2004

In cooperation with the American Association for Artificial Intelligence

Keynote Speakers

Justine Cassell, MIT
Edward Feigenbaum, Stanford University
Jim Hendler, University of Maryland
Tom Mitchell, CMU

General Chair

Ingrid Russell, University of Hartford
irussell@hartford.edu

Program Co-Chairs

Valerie Barr, Hofstra University
vbarr@hofstra.edu
Zdravko Markov, Central Connecticut State
University
markovz@ccsu.edu

Panels Coordinator

Valerie Barr, Hofstra University
vbarr@hofstra.edu

Special Tracks Coordinator

Timothy Huang, Middlebury College
huang@middlebury.edu

Workshops Coordinator

Zdravko Markov, Central Connecticut State
University
markovz@ccsu.edu

Important Dates

Paper submission deadline: **Oct. 24, 2003**
Author notification: **Jan. 7, 2004**
Camera-ready copies: **Feb. 6, 2004**

The Seventeenth International FLAIRS Conference seeks high quality, original, unpublished submissions in all areas of AI, including, but not limited to, neural networks, autonomous agents, case-based reasoning, computer vision, data mining, expert systems, genetic algorithms, intelligent user interfaces, intelligent tutoring systems, knowledge representation and management, learning, automated reasoning, multi-agent systems, natural language processing, planning, uncertainty reasoning, robotics, semantic web, speech recognition, temporal reasoning, AI and the Web, AI applications, AI and education, and verification/validation.

Conference Proceedings

Papers will be refereed. All accepted papers will appear in the conference proceedings published by AAAI Press. Selected papers will receive best-paper awards. Selected authors will be invited to submit extended versions of their papers to a special issue of the International Journal on Artificial Intelligence Tools (IJAIT) to be published in 2005.

Paper Submissions

Authors should format their papers according to AAAI guidelines. The papers should not exceed 5 pages and is due by October 24, 2003. The papers should not identify the author(s) in any manner. All submissions will be done electronically via FLAIRS web submission system, which will be available through the conference website.

Please consult the conference web page for details on paper submission. Questions regarding paper submissions should be addressed to the program co-chairs: Valerie Barr (vbarr@hofstra.edu) or Zdravko Markov (markovz@ccsu.edu).

Call for Special Tracks

A number of special track sessions will be held in parallel with other FLAIRS-2004 conference sessions. A list of all special tracks will be available at the conference web site. If you are interested in proposing a special track, contact the special tracks coordinator, Timothy Huang (huang@middlebury.edu).

Panel Sessions

Panel sessions that address a relevant topic are invited. A panel proposal is limited to two pages and should include a description of the topic, a list of panelists with brief biographies, the panel format and, if feasible, position statements of the panelists. Panels should be submitted to the panels coordinator, Valerie Barr (vbarr@hofstra.edu). The deadline for panel submissions is October 24, 2003.

Conference Web Site

<http://www.flairs.com/flairs2004>

- **Sponsor:**
Association of Intelligent Machinery
- **Contact:**
Sanjoy Das
Kansas State University
Electrical and Computer Engineering
263 Rathbone Hall
Manhattan, KS 66506
Voice: 785-532-4642
Fax: 785-532-1188
E-mail: sdas@ksu.edu
URL: axon.cs.byu.edu/Dan/cinc03.html

October 2003

- OCTOBER 1-3
Fifth International Conference on Electronic Commerce. Pittsburgh, PA
- **Contact:**
Raghu Arunachalam
Carnegie Mellon University
School of Computer Science
5000 Forbes Avenue
Pittsburgh, PA 15213
Voice: 412-268-3053
E-mail: raghua@cs.cmu.edu
URL: www.icec03.org

- OCTOBER 1-3
Integration of Knowledge Intensive Multi-Agent Systems: KIMAS'03: Modeling, Exploration, and Engineering. Cambridge, MA
- **Sponsors:**
IEEE Boston Section, IEEE NN Society, IEEE SMC Society, AAAI, INNS, US Air Force, US Army, US Navy, DARPA
 - **Contact:**
Alex Meystel
Drexel University ECE
32nd and Chestnut Street
Philadelphia, PA 19104
Voice: 215-895-2220
Fax: 215-895-1695
E-mail: alex@impact.drexel.edu
URL: www.ieee-boston.org/kimas03.htm

- OCTOBER 13-17
International Conference on Intelligent Agent Technology (IAT2003). Beijing, China
- **Sponsors:**
IEEE Computer Society Technica Committee on Computational Intelligence (TCCI), Web Intelligence Consortium
 - **Contact:**
Jiming Liu
Hong Kong Baptist University
Department of Computer Science
Kowloon Tong
Hong Kong 00000
China
Voice: 852-34117088

Fax: 852-3411-7892
E-mail: jiming@comp.hkbu.edu.hk
URL: www.comp.hkbu.edu.hk/IAT03/

- OCTOBER 17-19
Discovery Science. Sapporo, Japan
- **Contact:**
Gunter Grieser
Technical University Darmstadt
Computer Science
Alexanderstr. 10
Darmstadt 64283 Germany
Voice: +49/6151-166634
E-mail: grieser@informatik.tu-darmstadt.de
URL: www.intellektik.informatik.tu-darmstadt.de/DS03/

- OCTOBER 18
Intelligent Data Analysis in Medicine and Pharmacology and Knowledge-Based Information Management in Anaesthesia and Intensive Care (IDAMAP and KBIM-AIC 2003). Protaras, Cyprus
- **Sponsor:**
AIME-2003
 - **Contact:**
Ameen Abu-Hanna
University of Amsterdam
Department of Medical Informatics
Meibergdreef 15
Amsterdam 1105 AZ
The Netherlands
Voice: +31-20 5664511
Fax: +31-20 6912432
E-mail: A.Abu-Hanna@amc.uva.nl
URL: idamap.org/idamap2003

- OCTOBER 20-22
First Global Conference Artificial Intelligence: Exploring Critical Issues. Vienna, Austria
- **Paper Submission Deadline:**
September 19, 2003
 - **Contact:**
Rob Fisher
Inter-Disciplinary.Net
149B Wroslyn Road
Oxford OX29 8HR
United Kingdom
Voice: 01993-882087
E-mail: rf@inter-disciplinary.net
URL: www.inter-disciplinary.net/ai/ai03cfp.htm

November 2003

- NOVEMBER 5-7
International Conference on Multimodal Interfaces. Vancouver, BC Canada
- **Sponsors:**
ACM, ACM SIGCHI

- **Paper Submission Deadline:**
August 28, 2003
- **Contact:**
Matthew Turk
University of California
Computer Science
Santa Barbara, CA 93106
Voice: 805-893-4236
Fax: 805-893-8553
E-mail: mturk@cs.ucsb.edu
URL: icmi.cs.ucsb.edu

- NOVEMBER 10-14
Tenth Conference of the Spanish Association for Artificial Intelligence. San Sebastian-Donosti, Spain
- **Sponsors:**
AEPIA. Spanish Association for AI, University of Pais Vasco
 - **Contact:**
Ricardo Conejo
Computer Science
Boulevard Louis Pasteur, 35.
Malaga 29071 Spain
Voice: 34-952132812
Fax: 34-952131397
E-mail: conejo@lcc.uma.es
URL: www.lcc.uma.es/CAEPIA2003/

December 2003

- DECEMBER 8-12
Special Session on Evolutionary Computation and Computer Security (at CEC-2003). Canberra, Australia
- **Sponsors:**
IEEE, IEE, Evolutionary Programming Society
 - **Paper Submission Deadline:**
July 7, 2003
 - **Contact:**
Julio Cesar Hernandez
Carlos III University
Computer Science
Avda. Universidad, 30
Leganes 28911
Spain
Voice: +34-916249499
Fax: +34-916249129
E-mail: jcesar@inf.uc3m.es
URL: tracer.uc3m.es/CFP-SS-CEC2003.html

- DECEMBER 15-17
International Conference on Applied Artificial Intelligence. Pune, India
- **Sponsors:**
Technomathematics Research Foundation, Kolhapur, IMED, Pune
 - **Contact:**
Rajendra Akerkar
Technomathematics Research Foundation AI Group
204/17 KH, New Shahupuri

Kolhapur 416001 India
 Voice: 0091 231-2654522
 E-mail: ai2003@indiatimes.com
 URL: pune.sancharnet.in/kpr_tmrf/
 conf.htm

DECEMBER 18–20

**First Indian International Conference
 on Artificial Intelligence (IICAI-03).
 Hyderabad, India**

■ *Paper Submission Deadline:*

July 1, 2003

■ *Contact:*

Bhanu Prasad
 Georgia Southwestern State University
 Computer Science Department
 800 Wheatley Street
 Americus, GA 31709
 Voice: 229-931-2111
 Fax: 229-931-2270
 E-mail: bhanu@canes.gsw.edu
 URL: www.iiconference.org

March 2004

MARCH 22–24

**AAAI Spring Symposium Series. Stan-
 ford, CA**

■ *Sponsor:*

American Association for Artificial In-
 telligence

■ *Contact:*

AAAI Conference Coordinator
 AAAI
 445 Burgess Drive
 Menlo Park, CA 94025
 Voice: 650-328-3123
 E-mail: www.aaai.org/Organization/
 contact.html
 URL: www.aaai.org/Symposia/ sym-
 posia.html

May 2004

MAY 17–19

**Seventeenth International FLAIRS
 Conference (FLAIRS-04). Miami, FL**

■ *Sponsors:*

FLAIRS, in cooperation with AAAI

■ *Paper Submission Deadline:*

October 24, 2003

■ *Contact:*

Ingrid Russell
 Department of Computer Science
 Dana 230, University of Hartford
 West Hartford, CT 06117
 E-mail: irussell@hartford.edu
 URL: www.flairs.com/



[http://
www.ijcai-03.org/](http://www.ijcai-03.org/)

MAY 17–20

**The Seventeenth International Con-
 ference on Industrial and Engineer-
 ing Applications of Artificial
 Intelligence and Expert Systems
 (IEA/AIE-2004). Ottawa, ON, Canada**

■ *Sponsors:*

International Society of Applied Intelli-
 gence, National Research Council of
 Canada

■ *Paper Submission Deadline:*

October 31, 2003

■ *Contact:*

Bob Orchard
 National Research Council of Canada
 IIT
 1500 Montreal Road
 Ottawa, ON K1A 0R6
 Canada
 Voice: 613-993-8557
 Fax: 613-993-7250
 E-mail: iea2004aie@nrc-cnrc.gc.ca
 URL: www.iea-aie2004.org

June 2004

JUNE 28–JULY 1

**The Seventh International Confer-
 ence on Information Fusion. Stock-
 holm, Sweden**

■ *Sponsors:*

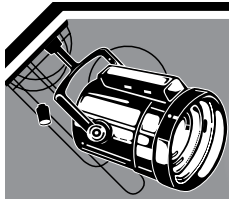
International Society of Information
 Fusion

■ *Paper Submission Deadline:*

January 1, 2004

■ *Contact:*

Johan Walter
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 Department of Data and Information
 Fusion Enkopingsvegen 126
 Stockholm SE-172 90 Sweden
 Voice: +46 8-5550 3678
 Fax: +46 8-5550 3686
 E-mail: fusion2004@foi.se
 URL: www.fusion2004.org



"Always Interesting" AI in the news

<http://www.aai.org/aitopics/html/current.html>



Man vs. Machine—A new era in computer chess. Garry Kasparov. *Opinion Journal*, from the *The Wall Street Journal* Editorial Page. February 16, 2003 (www.opinionjournal.com). "Years before the first computer was actually built, the famous British mathematician Alan Turing envisaged it playing chess and beating the human world champion. When the very first computers were delivered to the Los Alamos Scientific Laboratory in the 1950s the scientists there immediately started to program it to play chess. The quest had begun. For 50 years one of the recurring motifs of the science of artificial intelligence was a chess computer beating the world champion. It was almost an obsession in the community, with scores of teams in dozens of universities dedicating their academic careers to achieve this goal."

Who should explore space, man or machine? Richard Stenger. *CNN*. February 19, 2003 (www.cnn.com). "The loss of seven space shuttle astronauts this month again brought home the serious risk that humans face into the hostile environs beyond our sheltered planet, reviving the question of whether exploring the heavens should be left to unmanned missions. Although less glamorous, such missions pose no risks to humans. And already robots have an

impressive list of accomplishments compared to the their flesh and blood counterparts."

This eclectic keepsake provides a sampling of what can be found (with links to the full articles) on the AI Topics web site. Please keep in mind that (1) the mere mention of anything here does not imply any endorsement whatsoever; (2) the excerpt might not reflect the overall tenor of the article; (3) although the articles were initially available online and without charge, few things that good last forever; and (4) the AI in the News collection—updated, hyperlinked, and archived—can be found by going to www.aai.org/aitopics/html/current.html.

—Jon Glick, Webmaster, AI Topics



Are you lonesome tonight? With Wakamaru the robot you need never be again. Commentary by Catherine Pepinster. *The Independent*. February 9, 2003 (argument.independent.co.uk). "Last week Mitsubishi said that it has produced a robot that will act as a security guard for the elderly. Three-foot-high Wakamaru will patrol a pensioner's home for 24 hours a day, and alert families and social services should its owner, say, have a fall, or fail to get out of the bath. Wakamaru will trundle about using cameras in its 'eyebrows' to check all is well, and will send images to picture-displaying mobile phones. It can alert security firms if there is

an intruder in the house. ... Wakamaru is to be nurse and companion as well, reminding forgetful people to take their medicine, to eat and take a nap. And, as the first robot to hold a simple conversation, based on 10,000 words, Mitsubishi claims Wakamaru will banish loneliness."

The Cyborg Evolution. David Stonehouse. *The Sydney Morning Herald*. March 22, 2003 (www.smh.com.au). "[Kevin Warwick] believes this cyborg evolution is inevitable and vital to our very survival as a species. 'If we don't, the alternative is to have intelligent machines running everything. ... Warwick, a cybernetics professor at the University of Reading in England, is involved in ambitious and dangerous experiments in the quest to meld man and machine. In March 2002, an electrode was implanted in his wrist in order to read the electrical signals pulsing through his nerves and report the information to a computer, thus providing a link between the machine and his nervous system. ... While Warwick worries that machines may conquer man if we don't become part machine, he is not concerned that computers will end up taking over if we do team up with them. 'The new system that we move to is essentially an intelligent machine network that has human nodes connected to it. I see it as if you are not connected to the network—if you are not a cyborg—you're not part of it at all.'"

