

# Calendar of Events

## October 1997

OCTOBER 6-8

**International Workshop on Neural Networks for Identification, Control, Robotics, and Signal-Image Processing (NICROSP'97).** Hamamatsu, Japan

- *Contact:*  
Kenzo Watanabe  
Shizuoka University  
Research Institute of Electronics  
3-5-1 Johoku,  
Hamamatsu  
432 Japan  
Voice: +81 (53) 478-1326  
Fax: +81 (53) 478-1326  
watanabe-k@rie.shizuoka.ac.jp

OCTOBER 6-9

**Eighth Portuguese Conference on Artificial Intelligence (EPIA'97).** Coimbra, Portugal

- *Sponsor:*  
Portuguese Association for Artificial Intelligence
- *Contact:*  
EPIA'97  
Dep. Eng. Informatica  
Universidade de Coimbra - Polo II  
Pinhal de Marrocos  
3030 Coimbra, Portugal  
Voice: +351 (39) 7000004  
Fax: +351 (39) 701266  
epia97@alma.uc.pt

OCTOBER 12-16

**1997 Institute of Electrical and Electronics Engineers (IEEE) Sixth International Conference on Universal Personal Communications.** San Diego, CA

- *Sponsors:*  
IEEE Communications Society,  
Technical Committee on Personal Communications

- *Contact:*  
Andrea Erickson  
Voice: 301/913-9338, ext. 339  
aerickson@conference.com

OCTOBER 15-18

**Tenth International Symposium on Methodologies for Intelligent Systems (ISMIS'97).** Charlotte, NC

- *Contact:*  
Zbigniew W. Ras  
University of North Carolina  
Department of Computer Science  
Charlotte, NC 28223  
Voice: 704/547-4567  
Fax: 704/547-3516  
www.aaai.org

OCTOBER 29-NOVEMBER 1

**Third International Conference on Principles and Practice of Constraint Programming (CP97).** Schloss Hagenburg, Austria

- *Contact:*  
www.mpi-sb.mgp.de/conferences/CP97/

## November 1997

NOVEMBER 3-5

**Twelfth Institute of Electrical and Electronics Engineers (IEEE) International Conference on Automated Software Engineering (ASE'97).** Lake Tahoe, CA

- *Sponsors:*  
IEEE Computer Society, NASA  
Ames Research Center
- *Contact:*  
ase-97-submit@ptolemy.arc.nasa.gov

NOVEMBER 7-9

**AAAI Fall Symposium Series.** Cambridge, MA

- *Sponsor:*  
American Association for Artificial Intelligence (AAAI)
- *Contact:*  
Fall Symposium Series 1997  
AAAI, 445 Burgess Drive  
Menlo Park, CA 94025  
Voice: (650) 328-3123  
Fax: (650) 321-4457  
fss@aaai.org

NOVEMBER 7-9

**Georgia Tech International Conference in Bioinformatics: Gene Discovery in Silico.** Atlanta, GA

- *Contact:*  
Bioinformatics/  
Georgia Tech Conference  
Voice: 404/894-2400  
Fax: 404/894-8925  
register@conted.gatech.edu

NOVEMBER 8-14

**Fifth Association of Computing Machinery (ACM) International Multimedia Conference.** Seattle, WA

- *Sponsors:*  
ACM SIGMM, SIGCOMM, SIGGRAPH, SIGLINK, and SIGMIS
- *Contact:*  
James D. Hollan  
University of New Mexico  
Computer Science Department  
Albuquerque, NM 87131  
Voice: 505/277-3112  
Fax: 505/277-6927

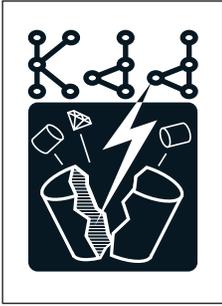
NOVEMBER 12-14

**Second Spanish Meeting on Technology Transfer and Artificial Intelligence (TTIA 97).** Malaga, Spain

- *Contact:*  
Jose Luis Perez de la Cruz  
Dpto. Lenguajes y Ciencias de la Computacion  
Universidad de Malaga  
Apartado 4114  
29080 Malaga, Spain  
Fax: +34 5 213.13.97  
cruz@apollo.lcc.uma.es

NOVEMBER 12-14

**Seventh Conference of the Spanish Association for Artificial Intelligence (CAEPIA 97).** Malaga, Spain



# The Fourth International Conference on Knowledge Discovery and Data Mining—KDD-98

Sponsored by AAAI • New York, New York • August 27–30, 1998

Collocated with the Conference on Very Large Databases

**K**nowledge discovery and data mining is an area of common interest to researchers in several fields, including machine learning, statistics, databases, and data visualization. The continuing rapid growth of on-line data has created a need and an opportunity for extracting knowledge from databases. Responding to this need, researchers and application developers have created knowledge discovery applications for many areas of business and science.

The fourth international conference on Knowledge Discovery and Data Mining (KDD-98) will follow on the success of previous KDD conferences. As an interdisciplinary field, KDD has made important strides by generating cross-fertilization of ideas between individual disciplines. In keeping with this theme, KDD-98 will be collocated with the Conference on Very Large Databases (VLDB-98). KDD-98 will immediately follow VLDB-98, with the goal of catalyzing discussions and interactions between researchers in the two fields.

The topics of interest include, but are not limited to:

#### Theory and Foundational Issues in KDD

- Data and knowledge representation
- Modeling of structured, unstructured and multimedia data
- Fundamental advances in search, retrieval, and discovery methods

#### Data Mining Methods and Algorithms

- Algorithmic complexity, efficiency, and scalability issues in data mining
- Data mining techniques implemented on scalable platforms, including parallel, distributed and clustered systems
- High dimensional datasets and data pre-processing
- Using prior domain knowledge and re-use of discovered knowledge

#### Database-centric Data Mining

- Database architectures and primitives for data mining
- Integration of data warehousing, OLAP and data mining
- Unification of data mining with database querying
- Disk-based data mining algorithms

#### KDD Process and Human Interaction

- Models of the KDD process
- Methods for evaluating subjective relevance and utility
- Data and knowledge visualization
- Interactive data exploration and discovery
- Privacy and security

#### Applications

- Data mining systems and data mining tools

- Application of KDD in business, science, medicine and engineering
- Application of KDD methods for mining knowledge in text, image, audio, sensor, numeric, categorical or mixed format data
- Resource and knowledge discovery using the Internet

This list of topics is not intended to be exhaustive but an indication of typical topics of interest. Prospective authors are encouraged to submit papers on any topics of relevance to knowledge discovery and data mining.

#### Submission and Review Criteria

Both research and applications papers are solicited. All submitted papers will be reviewed on the basis of technical quality, relevance to KDD, novelty, significance, and clarity. Authors are encouraged to make their work accessible to readers from other disciplines by including a carefully written introduction. Papers should clearly state their relevance to KDD. As in the past, some of the accepted papers will be selected for regular presentation at the conference and others for poster presentation. All accepted papers will be published in the conference proceedings.

Please submit 7 hardcopies of your paper (a maximum of 9 single-spaced pages not including cover page and bibliography, 1 inch margins, and 12point font) to be received by **March 17, 1998**. A cover page must include author(s) full address, e-mail, paper title and a 200 word abstract, and up to 5 keywords. This cover page must accompany the paper. In addition, an ASCII version of the cover page must be submitted electronically by March 10 1998, using a WWW form located at [www-aig.jpl.nasa.gov/kdd98/](http://www-aig.jpl.nasa.gov/kdd98/).

Please mail all copies of the full papers to:

AAAI (KDD-98)  
445 Burgess Drive  
Menlo Park, CA 94025-3442 USA  
Phone: (650) 328-3123  
Fax: (650) 321-4457  
E-mail: [kdd@aaai.org](mailto:kdd@aaai.org)  
Web Site: <http://www.aaai.org/Conferences/KDD/1998/>

#### Important Dates

All dates are **firm deadlines**. We will not consider papers received after the deadline.

- Electronic ASCII title page received by March 10, 1998
- 7 copies of full papers received by March 17, 1998
- Acceptance notices mailed by May 5, 1998
- Final camera-ready papers due to AAAI by

June 9, 1998

#### Call for Tutorial Proposals

KDD-97 featured an extremely strong and popular tutorial program at no extra cost to conference registrants. Continuing with the tradition started with KDD-97, KDD-98 will also offer a free tutorial program on KDD topics. The tutorials are a great way to quickly get acquainted with various KDD themes. If you are interested in giving a tutorial, please send a proposal outlining the material to be covered by **February 13, 1998** to Padhraic Smyth, [smyth@ics.uci.edu](mailto:smyth@ics.uci.edu).

#### Call for Panel Proposals

A great panel requires an interesting topic, good speakers, and proper preparation. Please submit suggestions for panel topics and preferably also for panelists who could represent diverse positions or approaches to the topic. The panel topics should be of general interest for a large part of the KDD audience and allow several (controversial) approaches to be discussed. Please e-mail panel proposals by **March 17, 1998** to Willi Kloezen, [kloesgen@gmd.de](mailto:kloesgen@gmd.de).

#### Call for Exhibits

KDD-98 program will also include demonstrations of knowledge discovery products, knowledge discovery applications and research prototypes. Please send proposals for demonstrations and exhibits by **March 17, 1998** to Ismail Parsa, [iparsa@epsilon.com](mailto:iparsa@epsilon.com).

#### KDD-98 Organization

*General Chair:* Gregory Piatetsky-Shapiro, Knowledge Stream Partners, Cambridge, MA

*Program Chairs:* Rakesh Agrawal, IBM Almaden Research Center, San Jose, CA; and Paul Stolorz, Jet Propulsion Laboratory, Pasadena, CA

*Publicity Chair:* Foster Provost, NYNEX, NY

*Tutorial Chair:* Padhraic Smyth, University of California at Irvine, CA

*Panel Chair:* Willi Kloezen, GMD, Germany

*Exhibits Chair:* Ismail Parsa, Epsilon, MA

*Local Arrangements Chair:* Kyusoek Shim, Bell Laboratories, Murray Hill, NJ

*AAAI Liaison:* Ramasamy Uthurusamy, General Motors, MI

- *Sponsor:*  
Spanish Association for Artificial Intelligence
- *Contact:*  
Jose Luis Perez de la Cruz  
Dpto. Lenguajes y Ciencias de la Computacion  
Universidad de Malaga  
Apartado 4114  
29080 Malaga, Spain  
Fax: +34 5 213.13.97  
cruz@apolo.lcc.uma.es

## December 1997

DECEMBER 1-6

### Neural Information Processing Systems—Natural and Synthetic. Denver, CO

- *Contact:*  
Tony Bell  
The Salk Institute  
P.O. Box 85800  
San Diego, CA 92186-5800  
Voice: 619/453-4100, ext. 1463  
Fax: 619/587-0417  
tony@salk.edu

DECEMBER 8-10

### IASTED International Conference on Intelligent Information Systems. Grand Bahama Island, Bahamas

- *Contact:*  
H. Adeli  
Conference Chairman  
Ohio State University  
College of Engineering  
470 Hitchcock Hall  
2070 Neil Avenue  
Columbus, OH 43210-1275  
Voice/Fax: 614/292-7929  
hadeli@magnus.acs.ohio-state.edu

## January 1998

JANUARY 4-6

### Fifth International Symposium on Artificial Intelligence and Mathematics. Fort Lauderdale, FL

- *Abstract Deadline:*  
30 September 1997
- *Paper Deadline:*

30 November 1997

- *Contact:*  
Frederick Hoffman  
Florida Atlantic University  
Department of Mathematics  
P.O. Box 3091  
Boca Raton, FL 33431  
hoffman@acc.fau.edu

JANUARY 6-9

### 1998 International Conference on Intelligent User Interfaces. San Francisco, CA

- *Sponsors:*  
Association of Computing Machinery (ACM) SIGART and SIGCHI
- *Contact:*  
Loren Terveen  
AT&T Labs  
Research  
600 Mountain Avenue  
Murray Hill, NJ 07974  
terveen@research.att.com

JANUARY 6-9

### Engineering Complex Computer Systems Minitrack. Kohala, Big Island, HI

- *Contact:*  
Ralph H. Sprague Jr.  
Conference Chair  
HICSS-31 Conference Office  
University of Hawaii at Honolulu  
College of Business Administration  
University of Hawaii  
Honolulu, HI  
Voice: 808/956-3251  
Fax: 808/956-9685  
hicss@hawaii.edu

JANUARY 28-30

### Second International Conference on Cooperative Multimodal Communication, Theory, and Applications (CMC/98). Tilburg, The Netherlands

- *Abstract Deadline:*  
1 October 1997
- *Paper Deadline:*  
1 December 1997
- *Contact:*  
Conference Secretariat  
Tilburg University  
Computational Linguistics and Artificial Intelligence Group  
P.O. Box 90153

5000 LE Tilburg  
The Netherlands  
Voice: +31 13 466 30 60  
Fax: +31 13 466 31 10  
denk@kub.nl

## February 1998

FEBRUARY 9-11

### International Conference on Computational Intelligence and Multimedia Applications. Churchill, Australia

- *Contact:*  
Henry Selvaraj  
Monash University  
Gippsland School of Computing and Information Technology  
Churchill, Victoria  
Australia 3842  
Voice: +61 3 9902 6665  
Fax: +61 3 9902 6842

FEBRUARY 23-27

### BIO-DECISION 98, SENSORAL 98, AND WASTE-DECISION 98: From Sensors to Decision Support Systems in Agriculture, Food-Industry, and Environment. Montpellier-Narbonne, France

- *Sponsors:*  
EurAgEng, IFAC, European Commission, and Agropolis
- *Contact:*  
Francis Sevilla  
ENSAM  
Bio-Engineering Department  
Place P. Viala  
34060 Montpellier cedex France  
Fax: +33 499.612.436  
decision98@ensam.inra.fr

## March 1998

MARCH 16-20

### Fourth World Congress on Expert Systems. Mexico City, Mexico

- *Sponsor:*  
ITESM Center for Artificial Intelligence
- *Contact:*  
Rogelio Soto  
Program Chair

# The Second International Conference Autonomous Agents

Hyatt Regency, Minneapolis/St. Paul, May 10–13, 1998

Autonomous Agents '98

Autonomous agents are computer systems that are capable of independent action in dynamic, unpredictable environments. Agents are also one of the most important and exciting areas of research and development in computer science today. Agents are currently being applied in domains as diverse as computer games and interactive cinema, information retrieval and filtering, user interface design, and industrial process control. Agents '98 will build on the enormous success of the First International Conference on Autonomous Agents (Agents '97), held in Marina del Rey in February 1997.

The conference welcomes submissions of original, high quality papers and videos with summaries concerning autonomous agents in a variety of embodiments and playing a variety of roles in their environments.

## Paper Submission Deadline: October 1, 1997

details at

<http://www.cis.udel.edu/~agents98/>

The conference will include presentations of papers and videos, panel sessions, a workshop and tutorial program, software and robotic agent demonstrations, and exhibits. Agents '98 is sponsored by ACM/SIGART, is held in cooperation with AAAI, and with support from Microsoft, Nokia, Sun Microsystems, and the University of Minnesota.

**Robotic Agents • Software Agents • Agents for Entertainment**

ITESM  
Centro de Inteligencia Artificial  
Av. Eugenio Garza Sada #2501 Sur  
Monterrey, N. L. 64849, Mexico  
Voice: (52-8) 328-4197  
Fax: (52-8) 328-4189  
rsoto@campus.mty.itesm.mx

MARCH 16–20  
**Tenth International Symposium on  
Artificial Intelligence. Mexico City,  
Mexico**

- *Sponsor:*  
ITESM Center for  
Artificial Intelligence
- *Contact:*  
Rogelio Soto, Program Chair  
ITESM  
Centro de Inteligencia Artificial  
Av. Eugenio Garza Sada  
#2501 Sur  
Monterrey, N. L. 64849,  
Mexico  
Voice: (52-8) 328-4197  
Fax: (52-8) 328-4189  
rsoto@campus.mty.itesm.mx

MARCH 23–25  
**1998 Spring Symposium Series.  
Stanford, CA**

- *Sponsor:*  
American Association for  
Artificial Intelligence
- *Contact:*  
Bonnie Dorr  
University of Maryland  
Artificial Intelligence Laboratory  
A. V. Williams Building, Rm. 3157  
Department of Computer Science  
College Park, MD 20742

April 1998

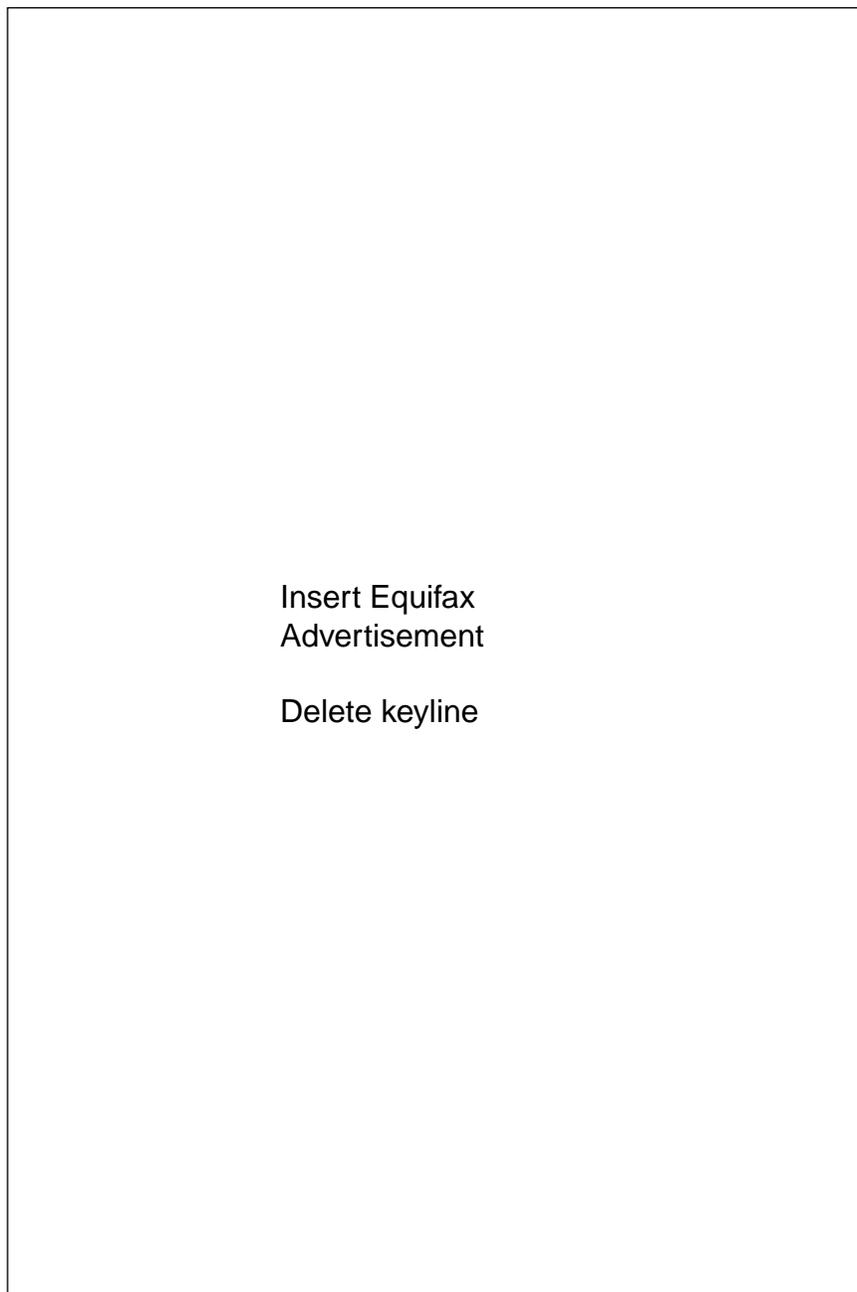
APRIL 1–4  
**Invited Session on Intelligent Prog-  
nostic Methods in Medical Diagno-  
sis and Treatment Planning.  
Nabeul-Hammamet, Tunisia**

- *Contact:*  
Ameen Abu-Hanna

University of Amsterdam  
Department of Medical Informatics  
Academic Medical Center  
Meibergdreef 15  
1105 AZ Amsterdam  
The Netherlands  
Voice: +31 20 5664511  
Fax: +31 20 6912432  
A.Abu-Hanna@amc.uva.nl

APRIL 14–17  
**Fourteenth European Meeting on  
Cybernetics and Systems Research  
(EMCSR'98). Vienna, Austria**

- *Sponsor:*  
Austrian Society for Cybernetic  
Studies
- *Contact:*  
Robert Trapp  
University of Vienna  
Department of Medical  
Cybernetics and AI  
Freyung 6/2 A-1010 Vienna, Austria  
Voice: +43-1-53532810  
Fax: +43-1-5320652  
sec@ai.univie.ac.at



## May 1998

MAY 10-13

### **Second International Conference on Autonomous Agents (Agents '98). Minneapolis/St. Paul, MN**

- *Submission Deadline:*  
1 October 1997
- *Contact:*  
Anand S. Rao  
Australian Artificial Intelligence  
Institute

Level 6, 171 La Trobe Street  
Melbourne, Victoria  
Australia 3000  
Voice: +61-3-9663-7922  
Fax: +61-3-9663-7937  
anand@aaii.oz.au

MAY 15-16

### **Fifth International Workshop on Temporal Representation and Reasoning (TIME-98). Sanibel Island, FL**

- *Submission Deadline:*  
8 December 1997

- *Contact:*  
Robert Morris  
TIME-98 Program Chair  
Florida Institute of Technology  
Computer Science Program  
150 University Boulevard  
Melbourne, FL 32901

MAY 17-20

### **Eleventh International FLAIRS Conference (FLAIRS-98). Sanibel Island, FL**

- *Contact:*  
Diane J. Cook  
FLAIRS-98 Program Chair  
University of Texas at Arlington  
Box 19015  
Arlington, TX 76019  
Voice: 817/272-3606  
Fax: 817/272-3784  
cook@cse.uta.edu

## June 1998

JUNE 1-4

### **International Association of Science and Technology for Development (IASTED) International Conference on Intelligent Systems and Control. Halifax, Canada**

- *Manuscript Deadline:*  
1 October 1997
- *Contact:*  
IASTED Secretariat ISC'98  
1811 West Katella Avenue,  
Suite 101  
Anaheim, CA 92804  
Voice: 714/778-3230  
Fax: 714/778-5463  
iasted@orion.oac.uci.edu

JUNE 4-6

### **Sixth European Conference on Information Systems (ECIS '98). Aix-en-Provence, France**

- *Submission Deadline:*  
3 November 1997
- *Contact:*  
Bartoli Jacques-André  
Organizing Committee Chair  
AIE Aix-en-Provence  
Université of Aix-Marseille III  
Clos Guiot  
13540, Puyricard,  
France

Fax: +33(0) 4 42 28 08 00  
bartoli@univ.aix.fr

JUNE 6-8

**Sixth International Conference on Principles of Knowledge Representation and Reasoning (KR'98). Trento, Italy**

- **Abstract Deadline:**  
15 December 1997
- **Submission Deadline:**  
19 December 1997
- **Contact:**  
Nicola Guarino  
National Research Council  
LADSEB-CNR, Corso Stati Uniti, 4  
I-35127 Padova, Italy  
guarino@ladseb.pd.cnr.it

JUNE 18-20

**AI-98 Twelfth Canadian Conference on Artificial Intelligence**

- **Sponsor:**  
Canadian Society for Computational Studies of Intelligence
- **Paper Deadline:**  
31 October 1997
- **Contact:**  
Robert Mercer  
University of Western Ontario  
Department of Computer Science  
London, Ontario N6A 5B7  
Canada  
mercerc@csd.uwo.ca

## July 1998

JULY 5-10

**Fifteenth International Conference on Automated Deduction (CADE-15). Lindau, Germany**

- **Contact:**  
Wolfgang Bibel  
FG Intellektik, TH Darmstadt  
Alexanderstr. 10  
64283 Darmstadt, Germany  
Voice: +49-6151-16-2100  
Fax: +49-6151-16-5326  
cade-15@informatik.th-darmstadt.de

JULY 20-23

**Artificial Intelligence in Design '98. Lisbon, Portugal**

- **Sponsors:**  
University of Sydney Key Centre of Design Computing and Instituto Superior Técnico
- **Submission Deadline:**  
1 October 1997
- **Contact:**  
Fay Sudweeks  
Conference Manager  
University of Sydney  
Voice: +61-2-9351 5933  
Fax: +61-2-9351 3031  
aid98@arch.su.edu.au

JULY 20-23

**Fifth International Conference on Artificial Intelligence in Design (ADB'98). Lisbon, Portugal**

- **Submission Deadline:**  
1 October 1997
- **Contact:**  
Fay Sudweeks  
Key Centre of Design Computing  
University of Sydney  
Sydney, New South Wales 2006  
Australia  
Voice: +61-2-9351-5933  
Fax: +61-2-9351-3031  
aid98@arch.usyd.edu.au

JULY 22-25

**Genetic Programming 1998 Conference (GP-98). Madison, WI**

- **Contact:**  
John Koza  
GP-98 Conference  
c/o AAAI  
445 Burgess Drive  
Menlo Park, CA 94025  
Voice: 650/328-3123  
Fax: 650/321-4457  
gp@aaai.org

JULY 26-30

**Fifteenth National Conference on Artificial Intelligence. Madison, WI**

- **Sponsor:**  
American Association for Artificial Intelligence
- **Contact:**  
AAAI  
445 Burgess Drive  
Menlo Park, CA 94025  
Voice: (650) 328-3123  
Fax: (650) 321-4457  
ncai@aaai.org

JULY 26-30

**Tenth Innovative Applications of Artificial Intelligence Conference. Madison, WI**

- **Sponsor:**  
American Association for Artificial Intelligence
- **Contact:**  
AAAI, 445 Burgess Drive  
Menlo Park, CA 94025  
Voice: (650) 328-3123  
Fax: (650) 321-4457  
iaai@aaai.org

## October 1998

OCTOBER 5-9

**Sixth Iberoamerican Conference on Artificial Intelligence (IBERAMIA-98). Lisbon, Portugal**

- **Sponsor:**  
Portuguese Association for Artificial Intelligence
- **Paper Deadline:**  
15 June
- **Contact:**  
Gabriel Pereira Lopes  
Departamento de Informatica  
Faculdade de Ciencias e Tecnologia  
Universidade Nova de Lisboa  
Quinta da Torre  
2825 Monte da Caparica, Portugal  
Voice: (351 1) 294 85 36  
Fax: (351 1) 294 85 41  
gpl@di.fct.unl.pt

## November 1998

NOVEMBER

**1998 Fall Symposium Series. (Location to be announced).**

- **Sponsor:**  
American Association for Artificial Intelligence
- **Contact:**  
Bonnie Dorr  
University of Maryland  
Artificial Intelligence Laboratory  
A. V. Williams Building, Rm 3157  
Department of Computer Science  
College Park, MD 20742  
bonnie@cs.umd.edu