AAAI News

Fall News from the
American Association for Artificial Intelligence

Congratulations to the 2000 AAAI Award Winners!

AAAI President David L. Waltz presented the three AAAI Awards at AAAI-2000 in Austin, Texas. Each award winner received a certificate and a check for $2500.

Classic Paper Award

The 2000 AAAI Classic Paper Award was given to the author of the most influential paper(s) from the Second National Conference on Artificial Intelligence, held in 1982 at Carnegie Mellon University and the University of Pittsburgh in Pittsburgh, Pennsylvania. The Awards Committee selected Judea Pearl of the University of California at Los Angeles to receive this award for his paper "Reverend Bayes on Inference Engines: A Distributed Hierarchical Approach." Pearl is being honored for revolutionizing uncertain reasoning through the introduction of efficient Bayesian inference methods.

Judea Pearl accepts Classic Paper Award at AAAI-2000 in Austin, Texas.

Judea Pearl was born in Tel-Aviv, Israel, and received a B.S. in electrical engineering from the Technion Haifa Israel in 1960 and M.S. (physics) and Ph.D.E.E. degrees in 1965 from Rutgers University and Polytechnic Institute of Brooklyn. He joined the faculty at UCLA in 1970 and is currently director of the Cognitive Systems Laboratory where he conduct research in knowledge representation, probabilistic and causal reasoning, constraint processing, and learning. Pearl has authored three books, *Heuristics* (1984), *Probabilistic Reasoning in Intelligent Systems* (1988), and *Causality* (2000). He serves on the editorial boards of *Artificial Intelligence, Annals of Mathematics and Artificial Intelligence,* and the *Encyclopedia of AI.* Pearl is a recipient of the RCA Laboratories Achievement Award (1965), NATO Senior Fellowship in Science (1975), and the IJCAI Research Excellence Award in Artificial Intelligence (1999). He is a member of the National Academy of Engineering, and a Fellow of IEEE and AAAI.

Distinguished Service Award

The AAAI Distinguished Service Award recognizes one individual each year for extraordinary service to the AI community. The AAAI Awards Committee is pleased to announce that this year's recipient was Daniel G. Bobrow of Xerox Palo Research Center, a past president of AAAI. Bobrow was honored specifically for significant contributions to the field of AI through sustained service to AAAI and stewardship of the *Artificial Intelligence Journal.*

Former AAAI President and AAAI Distinguished Service Award Recipient Daniel G. Bobrow

Daniel G. Bobrow is a research fellow in the Systems and Practices Laboratory at the Xerox Palo Alto Research Center and manager of an area that is engaged in a number of projects investigating the support of knowledge work. These projects include EUREKA, which provides flexible, personal thinking style and context-sensitive display of information for service technicians and support for leveraging the learning of individuals in the field; KQM, which provides a project to extract and represent the information in focused document collections, such as the EUREKA tips for the purpose of resolving redundancies in the collection; PUEBLO, which provides a school-centered community supported by a multiuser virtual world; and model-based computing, which uses models of designed devices to support human communication about their design and automatic generation of programs to control these devices. Bobrow received his Ph.D. in mathematics from the Massachusetts Institute of Technology, with one of the first theses in the then newly formed Artificial Intelligence Project, headed by Marvin Minsky and John McCarthy. He has published

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James A. Hendler Accepts the AAAI Effective Expository Writing Award at AAAI-2000 in Austin, Texas.

over 100 papers and written or edited 13 books on a number of technical subjects, ranging from programming languages and operating systems to AI, cognitive science, and collaborative systems. He is the recipient of the ACM Programming Language and Systems Best Paper award, the ACM Software Systems Award, and the IJCAI Donald E. Walker Distinguished Service Award. He is editor-in-chief of the international journal *Artificial Intelligence.* A former president of the American Association for Artificial Intelligence and chair of the Cognitive Science Society, Bobrow is a fellow of both the AAAI and the ACM.

Expository Writing Award

The AAAI Effective Expository Writing Award was established this year to honor the author(s) of a high–quality, effective piece of writing, accessible to the general public or to a broad AI audience (not just a subarea), written within the last two years. The contribution should be based on sound science, interesting ideas, or systematic review, with nontrivial content, but the award is primarily for the exposition. The award will be presented to James A. Hendler for his article, "Is There an Intelligent Agent in Your Future?," *Nature*, March 11, 1999.

Hendler is currently working at the Defense Advanced Research Projects Agency as a program manager. At the University of Maryland, he is a professor and head of both the Autonomous Mobile Robotics Laboratory and the Advanced Information Technology Laboratory. He has joint appointments in the Department of Computer Science, the Institute for Advanced Computer Studies, and the Institute for Systems Research, and he is also an affiliate of the Electrical Engineering Department. He is the author of the book *Integrating Marker-Passing and Problem Solving: An Activation Spreading Approach to Improved Choice in Planning* and is the editor of *Expert Systems: The User Interface*, *Readings in Planning* (with J. Allen and A. Tate) and *Massively Parallel AI* (with H. Kitano). He has authored over 100 technical papers in AI, robotics, intelligent agents, and high-performance computing. Hendler was the recipient of a 1995 Fulbright Foundation Fellowship, is a member of the United States Air Force Science Advisory Board and is a fellow of the American Association for Artificial Intelligence.

For more information about nominations for AAAI 2001 Awards, please contact Carol Hamilton at hamilton@aaai.org or 650-328-3123.

AAAI Intel ISEF Awards

Now in its second year, the AAAI Special Awards program at the annual Intel International Science & Engineering Fair (ISEF) consists of 15 awards to recognize outstanding achievement in the area of intelligent computation and robotics. The awards are intended for the best exhibits in the area of computer science with an AI component. Finalists in other areas with significant computer science components are also eligible. Each award winner receives $1000 and a certificate. The winners and their schools also receive a complimentary one-year membership in the AAAI, including a subscription to *AI Magazine*. The 2000 winners are as follows:

- Muhammed Abdul Ali, Mankato, MN
  Progressive Neural Networking
- Jordan Lee Boyd-Graber, Hot Springs, AR
  Semantic Poetry Creation Using Lexicographic and Natural Language Texts
- Eser Kubali Chamoglu, New York, NY
  Q-Bot—System for Developing Mobile Robot Software in Less Time for Less Cost
- Alexander Grant Clark, Jackson, MS
  Formulation of a Document Content Specification System to Support the Development and Implementation of a Content Index Network
- Alexis Lussier Desbiens, Plessisville, Quebec
  ROX 544—Walking Like an Insect
- Alexander Gondarenko, Springfield, VA
  Application of Advanced Genetic Algorithms for Optimization of Lens Design
- Jason N. Harris, Conroe, TX
  Developing Tactile Hand Sensors for Mechanical Hand
- Ian Levi Nelson and Dagny Lauren Looper
  Cellular Automata: Cyber Creepy Crawlies
- Ryan Randall Patterson, Grand Junction, CO
  Robotic Search Tool
- Joseph E. Pechter and William H. Pechter, Vero Beach, FL
  Hybrid Text to Speech 2000
- Joseph Simon Reisinger, The Woodsland, TX
  Intelligent Genetic Algorithm
- Edmund M. Rogers, Estero, FL
  Complex Emergent Behavior in Multi Robot System
- Hasuk Francis Song, La Jolla, CA
  Story Understanding Program in Prolog

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- Joel Lewis Stevens, Montgomery, TX
  DNA Computation of a Subset Sum
- Leonardo F. Urbano, Ridgewood, NY
  Taskable Simple Onboard Adaptive Robot Controllers in Real World Complex Environments

AAAI congratulates all the winners! In addition, it would like to recognize all the judges, who attended the fair in Detroit and selected the winners from among many remarkable and worthy projects. Many thanks to Mel Montemerlo (Chair), John Laird, Peter Friedland, Tom Gruber, and David Atkinson for their generous donations of time and energy.

IJCAI-01 and IAAI-01

The Seventeenth International Joint Conference on Artificial Intelligence will be held August 4–10, 2001, at the Washington State Convention & Trade Center in Seattle, Washington. IJCAI-01 is sponsored by IJCAII and AAAI. The Thirteenth Conference on Innovative Applications (IAAI-01) will be collocated with IJCAI in Seattle.

Please watch your mail for IJCAI-01 Calls for Technical Papers, Workshop Proposals, Tutorial Proposals, and Awards Nominations. You can also view this information and more at ijcai-01.org or by writing to ijcai@aaai.org. Information about IAAI-01 is available by writing to iaai@aaai.org or at www.aaai.org/Conferences/IAAI/iaai.html

Please note that the deadline for submission of electronic title pages and papers to IJCAI-01 is January 8, 2001. Final papers are due January 9, 2001. IAAI-01 papers are due by January 17, 2001.

AAAI-2002

Please mark your calendars now for AAAI-2002, which will be held July 21–25 in Edmonton, Alberta, Canada. The Eighteenth National Conference on Artificial Intelligence and the Fourteenth Conference on Innovative Applications of Artificial Intelligence (IAAI-2002) will run concurrently. Rina Dechter, University of California at Irvine, and Richard Sutton, AT&T Labs –Research, will serve as program cochairs in 2002.

IJCAII/AAAI Scholarship Programs

AAAI and IJCAII are pleased to announce the continuation of their Scholarship and Volunteer Programs for students interested in attending the International Joint Conference on Artificial Intelligence in Seattle, Washington, USA, August 4–10, 2001. The U.S. Scholarship Program provides partial travel support and a complimentary technical program registration for students who are full-time undergraduate or graduate students at U.S. colleges and universities; are members of AAAI; submit papers to the technical program or letters of recommendation from their faculty adviser; and submit scholarship applications to AAAI by April 15, 2001. In addition, repeat scholarship applicants must have fulfilled the volunteer and reporting requirements for previous awards.

In the event that scholarship applications exceed available funds, preference will be given to students who have an accepted technical paper and then to students who are actively participating in the conference in some way. However, all eligible students are encouraged to apply.

After the conference, an expense report will be required to account for the funds awarded. For further information about the U. S. Scholarship Program or to obtain an application, please contact AAAI at scholarships@aaai.org, or 445 Burgess Drive, Menlo Park, California, 94025, USA; 650-328-3123 phone; 650-321-4457 fax.

Separate travel award programs are available for international students through IJCAII and other national societies. In addition, IJCAII will continue its travel support program for junior scientists from developing countries who have problems with currency conversion. For information regarding any of these international programs, please write to Priscilla Rasmussen at rasmussen@cs.rutgers.edu or IJCAII, 75 Paterson Street, Suite 9, New Brunswick, NJ 08901, USA, +1-732-342-9100 phone, +1-732-342-9339 fax.

International students and junior scientists should first contact their local societies to see if support is available. If no other support is available, they can apply to IJCAII for support by submitting three copies of a letter of application that include (1) applicant name/address/e-mail, (2) status of applicant (undergraduate, graduate student, junior faculty, and so on), (3) type of planned participation at IJCAI-01 (technical or workshop paper presentation, and so on), (4) an estimate of attendance costs, (5) information about what other societies have been approached for support and result; any other sources of possible support, and (6) a letter of support from the adviser (student applicants only). A post-conference report and receipts will be required to obtain the award after the close of the conference. The deadline for submission of applications is April 15, 2001, to Priscilla Rasmussen at the previous address. Should applications exceed available funding, priority will be given to (1) students presenting technical session papers, (2) junior scientists from developing countries presenting technical papers, (3) students presenting workshop papers, and (4) junior scientists from developing countries participating in the conference in other ways.

All student scholarship recipients will be required to participate in the Student Volunteer Program to support IJCAI organizers in Seattle. The Volunteer Program is an essential part of the conference, and student participation is a valuable contribution.

Students not requiring travel assistance should only apply for the Volunteer Program, which provides complimentary registration to full-time students, including conference proceedings, in exchange for assisting IJCAI-01 organizers in Seattle. This program does not provide any scholarship funds and is designed for local students or students who have other sources for travel funds. For further information regarding the Student Volunteer Program, please contact AAAI at volunteer@aaai.org. The deadline for volunteer applications is May 31, 2001.

AAAI 2000 Fall Symposium Series

The American Association for Artificial

Introducing a new journal in 2001...

Theory and Practice of Logic Programming

Published for the Association for Logic Programming

Editor-in-Chief
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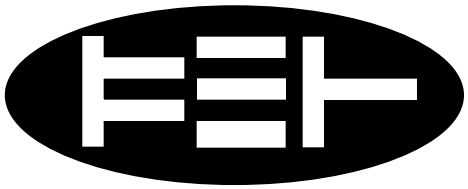
Maurice Bruynooghe, Katholieke Universiteit Leuven, Belgium

TPLP will emphasise both the theory and the practice of logic programming. Logic applies to all areas of artificial intelligence and computer science. Logic programming is fundamental to all these areas. Among the topics to be covered by *TPLP* are AI applications that use logic programming, natural language processing, knowledge representation, nonmonotonic reasoning, databases, implementations and architectures and constraint logic programming. In addition to these topics, reviews of books will be featured, as will successful cases of elegant and efficient logic programs, to appear in the Logic Programming Pearls section.



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Intelligence's 2000 Fall Symposium Series will be held Friday through Sunday, November 3–5, at the Sea Crest Conference Center in North Falmouth, Massachusetts. The titles of the five symposia are

- Building Dialogue Systems for Tutorial Applications
- Learning How to Do Things
- Parallel Cognition for Embodied Agents
- Simulating Human Agents
- Socially Intelligent Agents—The Human in the Loop

A general plenary session in which the highlights of each symposium will be presented will be held on Saturday, November 4, and an informal reception will be held on Friday, November 3. Symposia will be limited to 40 to 60 participants. Each participant will be expected to attend a single symposium. In addition to invited participants, a limited number of other interested parties will be allowed to register in each symposium on a first-come, first-served basis. Working notes will be prepared and distributed to participants in each symposium but will not otherwise be available unless published as an AAAI Technical Report or edited collection.

The final deadline for registration is September 20, 2000. For registration information, please contact AAAI at fss@aaai.org or visit AAAI's web site at www.aaai.org/Symposia/Fall/fall-symposia.html. A hotel room block has been reserved at the Sea Crest Resort. The cut-off date for reservations is October 2, 2000. Please call 1-800-225-3110 or 1-508-540-7602 for further information.

AAAI 2001 Fall Symposium Series

Proposals are being sought for the 2001 Fall Symposium, site and dates to be announced. The venue is expected to continue on the east coast. All proposals will be reviewed by the AAAI Symposium Committee (Chair: Ian Horswill, Northwestern University; Cochair: Dan Clancy, NASA Ames Research Center). Symposium proposals should be submitted as soon as possible but no later than October 13, 2000. Notifications of acceptance or rejection will be sent to submitters around October 23, 2000. A Call for Participation will be issued in December. Please see www.aaai.org/Symposia/Fall/fall-symposia.html for further information.

AAAI 2001 Spring Symposium Series

The American Association for Artificial Intelligence presents the 2001 Spring Symposium Series, to be held Monday through Wednesday, March 26-28, 2001, at Stanford University. The titles of the seven symposia are

- Answer Set Programming: Toward Effi-

CDs from AAAI Press

AAAI 1980-1998 / IAAI 1993-1997 Conferences CD-ROM Set

This archival CD-ROM set consists of all the papers from the 1980–1997 AAAI National Conferences, as well as the papers from the 1993–1997 Innovative Applications of Artificial Intelligence Conferences. The set consists of more than 2,200 papers in PDF format, and is readable by most Windows, Macintosh, and many UNIX platforms. (4 CDs, $250.00)

AAAI 1998–1999 and KDD Conference Proceedings CD-ROM Set

This CD-ROM set consists of all the papers from the 1998 and 1999 National Conferences on Artificial Intelligence, as well as the 1998 and 1999 Innovative Applications of Artificial Intelligence Conferences. Included also on this CD are the 1995–1998 Knowledge Discovery and Data Mining Conference papers. The single CD contains approximately 260 technical papers in PDF format, and is readable by most Windows, Macintosh, and many UNIX platforms. (1 CD, $60.00)

AAAI 2000 National Conference Proceedings CD-ROM

This new CD-ROM set consists of all the papers from the 2000 National Conferences on Artificial Intelligence, as well as the 2000 Innovative Applications of Artificial Intelligence Conferences. The single CD contains more than 230 technical papers in PDF format, and is readable by most Windows (1998 and later), Macintosh, and many UNIX platforms. (1 CD, $60.00)

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Symposia will be limited to 40 to 60 participants. Each participant will be expected to attend a single symposium. Working notes will be prepared and distributed to participants in each symposium. A general plenary session in which the highlights of each symposium will be presented will be held on Tuesday, March 27, and an informal reception will be held on Monday, March 26. In addition to invited participants, a limited number of other interested parties will be able to register in each symposium on a first-come, first-served basis. Registration information will be available by December 15, 2000. Please contact AAAI at sss@aaai.org or visit our web site at www.aaai.org/Symposia/Spring/spring-symposia.html.

Submission Information

Submissions for the symposia are due on October 9, 2000. Notification of acceptance will be given by November 8, 2000. Material to be included in the working notes of the symposium must be received by January 17, 2001. The complete Call for Participation is available as www.aaai.org/Symposia/Spring/spring-symposia.html.

AAAI Executive Council Nominations

Every two years, the AAAI membership elects an individual to serve a two-year term as President-Elect, followed by two years as President and, finally, two years as immediate Past President. In addition, every year four new councilors are elected to serve three-year terms on the AAAI Executive Council. All elected councilors are expected to attend at least two council meetings per year and actively participate in AAAI activities. Nominees must be current members of AAAI. The Nominating Committee encourages all regular members in good standing to place an individual's name before them for consideration. (Student and library members are not eligible to submit candidates' names.) The Nominating Committee, in turn, will nominate one candidate for President-Elect and eight candidates for councilor in the spring. In addition to members' recommendations, the committee will actively recruit individuals to provide a balanced slate of candidates. AAAI members will vote in the late spring.

To submit a candidate's name for consideration, please send the individual's name, address, phone number, and e-mail address to Carol Hamilton, Executive Director, AAAI, 445 Burgess Drive, Menlo Park, CA 94025; by fax to 650/321-4457; or by email to hamilton@aaai.org. Nominators should contact candidates prior to submitting their names to verify that they are willing to serve, should they be elected. The deadline for nominations is November 1, 2000.