AAAI–96 Program Committee

Program Cochairs

William J. Clancey, *Institute for Research on Learning* Dan Weld, *University of Washington*

Associate Chair

Ramesh Patil, University of Southern California/Information Sciences Institute

Robot Competition Chair

David Kortenkamp, NASA Johnson Space Center

SIGART/AAAI Doctoral Consortium Cochairs

Vibhu Mittal, *University of Pittsburgh* Loren Terveen, *AT&T Bell Laboratories*

Student Abstract and Poster Chair

Maja Mataric, Brandeis University

Tutorial Chair

Brian C. Williams, NASA Ames Research Center

Workshop Chair

Subbarao Kamphampati, Arizona State University

Volunteer Coordinator

Thomas G. Dietterich, Oregon State University

Senior Program Committee

Lawrence Birnbaum, Institute of Learning Sciences/Northwestern University B. Chandrasekaran, Ohio State University James Crawford, University of Oregon Johan de Kleer, Xerox PARC Rina Dechter, University of California, Irvine Thomas Dietterich, Oregon State University Oren Etzioni, University of Washington Les Gasser, National Science Foundation Steve Hanks, University of Washington Eric Horvitz, Microsoft Corporation Leslie Pack Kaelbling, Brown University Jean-Claude Latombe, Stanford University Wendy G. Lehnert, University of Massachusetts David P. Miller, KISS Institute for Practical Robotics Raymond J. Mooney, University of Texas at Austin Johanna Moore, University of Pittsburgh

Pandurang Nayak, NASA Ames Research Center
Charles Rich, Mitsubishi Electric Research Laboratory
Paul S. Rosenbloom, University of Southern
California/Information Sciences Institute
Len Schubert, University of Rochester
Bart Selman, AT&T Laboratories
Jude Shavlik, University of Wisconsin
Yoav Shoham, Interval Research Corporation
David E. Smith, Rockwell Science Center
Stephen Smith, Carnegie Mellon University
Michael Swain, University of Chicago
Michael Wellman, University of Michigan
Beverly Woolf, University of Massachusetts

Program Committee

David Aha, Naval Research Laboratory
Dean Allemang, Organon Motives Inc.
Yiannis Aloimonos, University of Maryland
Kevin Ashley, University of Pittsburgh
Fahiem Bacchus, University of Waterloo
J. Eugene Ball, Microsoft Corporation
Ray Bareiss, Institute of Learning Sciences/Northwestern
University

Andy Barto, University of Massachusetts

Rik Belew, University of California, San Diego
Rachel Ben-Eliyahu, Ben-Gurion University of the Negev
Richard Benjamins, University of Amsterdam
William Birmingham, University of Michigan
Gautam Biswas, Vanderbilt University
Aaron Bobick, Massachusetts Institute of Technology Media
Laboratory

Mark Boddy, Honeywell Technology Center
Pete Bonasso, NASA Johnson Space Center
Greg Bond, University of British Columbia
Lashon Booker, The MITRE Corporation
Larry Bookman, Applied Parallel Technologies, Inc.
Craig Boutilier, University of British Columbia, Canada
Liz Bradley, University of Colorado
Matthew Brand, Massachusetts Institute of Technology Media
Laboratory

Eric Brill, *The Johns Hopkins University*Carla E. Brodley, *Purdue University*Don Brutzman, *Naval Postgraduate School*Wray Buntine, *Thinkbank*Robin Burke, *University of Chicago*Tom Bylander, *University of Texas at San Antonio*Marco Cadoli, *Università di Roma "La Sapienza"*Claire Cardie, *Cornell University*

Steve Chien, Jet Propulsion Laboratory

Phil Cohen, Oregon Graduate Institute of Science & Technology

William W. Cohen, AT&T Bell Laboratories

Jim Cowie, New Mexico State University

Bruce D'Ambrosio, Oregon State University

Mukesh Dalal, Columbia University

Adnan Darwiche, Rockwell Science Center

Keith S. Decker, Carnegie Mellon University

James P. Delgrande, Simon Fraser University

Marie des Jardins, SRI International

Barbara Di Eugenio, Carnegie Mellon University

Sven Dickinson, Rutgers University

Eric Domeshek, Institute of Learning Sciences/Northwestern University

Francesco Donini, Università di Roma "La Sapienza"

Bob Doorenbos, University of Washington

Richard Doyle, Jet Propulsion Laboratory

Brian Drabble, University of Edinburgh/AIAI

Denise Draper, Rockwell Science Center

Oskar Dressler, OCC'M Software GmbH

Mark Drummond, Tyecin Systems Inc.

Marek Druzdzel, University of Pittsburgh

Olivier DuBois, LAFORIA, CNRS-UniversitÉ Paris

Edmund Durfee, University of Michigan

Michael Eisenberg, University of Colorado

Yousri El Fattah, University of California, Irvine

Chris Eliot, University of Massachusetts

Charles Elkan, University of California, San Diego

Tom Ellman, Rutgers University

Michael Erdmann, Carnegie Mellon University

Brian Falkenhainer, Xerox Wilson Center

Boi V. Faltings, LIA(DI), EPFL, France

Adam Farquhar, Stanford University

Usama Fayyad, Microsoft Research

Jim Firby, University of Chicago

Doug Fisher, Vanderbilt University

Nicholas S. Flann, Utah State University

Eugene Freuder, University of New Hampshire

Alan Frisch, University of York

Erann Gat, Jet Propulsion Laboratory

Hector Geffner, Universidad Simon Bolivar

Dan Geiger, Technion

Andrew Gelsey, Rutgers University

Malik Ghallab, LAAS-CNRS

Yolanda Gil, University of Southern California/Information Sciences Institute

Maria Gini, University of Minnesota

Fausto Giunchiglia, IRST

Janice Glasgow, Queen's University

Ashok K. Goel, Georgia Institute of Technology

Andrew Golding, Mitsubishi Electric Research Laboratory

Robert Goldman, Honeywell Technology Center

Moises Goldszmidt, Rockwell Science Center

Carla Gomes, Rome Laboratory

Brad Goodman, The MITRE Corporation

Scott Goodwin, University of Regina

Diana Gordon, Naval Research Laboratory

Jonathan Gratch, *University of Southern*

California/Information Sciences Institute

Adam Grove, NEC Research Institute

Vineet Gupta, Xerox PARC

Mark Guzdial, Georgia Institute of Technology

Peter Haddawy, University of Wisconsin-Milwaukee

Greg Hager, Yale University

Kristian Hammond, University of Chicago

Mary Harper, Purdue University

David Paul Helmbold, University of California, Santa Cruz

James Hendler, University of Maryland

Joachim Hertzberg, GMD

Randall Hill, University of Southern California/Information

Sciences Institute

David Hinkle, Lockheed AI Research Center

Haym Hirsh, Rutgers University

Tad Hogg, Xerox PARC

Larry Holder, University of Texas at Arlington

Ian Horswill, Northwestern University

Scott Huffman, Price Waterhouse Technology Center

Seth Hutchinson, The Beckman Institute

Toru Ishida, Kyoto University

Yumi Iwasaki, Stanford University

Peter Jeavons, University of London

Nick Jennings, University of London

Todd Johnson, Ohio State University

W. Lewis Johnson, University of Southern

California/Information Sciences Institute

Patricia M. Jones, University of Illinois

Leo Joskowicz, The Hebrew University of Jerusalem

David Joslin, University of Oregon

Subbarao Kambhampati, Arizona State University

Keiji Kanazawa, Microsoft Corporation

Simon Kasif, The Johns Hopkins University

Alex Kass, Institute of Learning Sciences/Northwestern University

Henry Kautz, AT&T Bell Laboratories

Lydia Kavraki, Stanford University

Steven Ketchpel, Stanford University

Roni Khardon, Harvard University

Dennis Kibler, University of California, Irvine

Hiroaki Kitano, Sony Computer Science Laboratory

Mark Klein, Pennsylvania State University

Craig Knoblock, University of Southern

California/Information Sciences Institute

Ron Kohavi, Silicon Graphics, Inc.

Daphne Koller, Stanford University

Janet Kolodner, Georgia Institute of Technology

Kurt Konolige, SRI International

Richard Korf, University of California, Los Angeles

David Kortenkamp, Metrica, Inc.

Manolis Koubarakis, University of Manchester

Sarit Kraus, Bar Ilan University David Kriegman, Yale University

Bruce Krulwich, Andersen Consulting Research

John Lafferty, Carnegie Mellon University

Pat Langley, *Stanford University* Steven LaValle, *Stanford University*

David Leake, Indiana University

Jill Fain Lehman, Carnegie Mellon University

Hector Levesque, University of Toronto Lori Levin, Carnegie Mellon University Alon Levy, AT&T Bell Laboratories Rick Lewis, The Ohio State University

Vladimir Lifschitz, University of Texas at Austin

Dekang Lin, *University of Manitoba* Diane Litman, *AT&T Bell Laboratories* Michael Littman, *Brown University*

Karen E. Lochbaum, US WEST Advanced Technologies

Ronald Loui, Washington University Susann Luperfoy, The MITRE Corporation David McAllester, AT&T Bell Laboratories

Alan K. Mackworth, *University of British Columbia* Sridhar Mahadevan, *University of South Florida* Jitendra Malik, *University of California*, *Berkeley*

Maja J. Mataric, Brandeis University Jim Mayfield, University of Maryland Chris Meek, Carnegie Mellon University Dimitri Metaxas, University of Pennsylvania Risto Miikkulainen, University of Texas at Austin Tom Mitchell, Carnegie Mellon University

Eric Mjolsness, University of California, San Diego

Hiroshi Motoda, Osaka University, Japan Tom Murray, University of Massachusetts Nicola Muscettola, NASA Ames Research Center

Karen L. Myers, SRI International

Hari Narayanan, Georgia Institute of Technology

Dana Nau, University of Maryland Bernhard Nebel, Universitaet Ulm Dan Neiman, University of Massachusetts Randal Nelson, University of Rochester Ann Nicholson, Brown University Peter Norvig, Harlequin Inc.

Jon Oberlander, *University of Edinburgh* Thomas J. Olson, *Texas Instruments*

Chris Owens, BBN

Lynne E. Parker, Oak Ridge National Laboratory Michael Pazzani, University of California, Irvine Edwin Pednault, IBM T. J. Watson Research Center

Mark Peot, Rockwell Science Center Massimo Poesio, University of Edinburgh

David Poole, University of British Columbia, Canada

Malcolm Pradhan, Stanford University

Greg Provan, Rockwell International Science Center

Louise Pryor, University of Edinburgh

Teodor C. Przymusinski, University of California, Riverside

James Pustejovsky, Brandeis University

Lisa Rau, Systems Research & Applications Corporation (SRA)

Larry Rendell, The Beckman Institute

Jeff Rickel, University of Southern California/Information

Sciences Institute

Ellen Riloff, *University of Utah*Francesca Rossi, *University of Pisa*Dan Roth, *Weizmann Institute of Science*Steven Roth, *Carnegie Mellon University*William Rounds, *University of Michigan*

Marie-Christine Rousset, LRI-Universite Paris-Sud

Daniela Rus, Dartmouth College Elisha Sacks, Purdue University

Norman Sadeh, *Carnegie Mellon University* Steve Salzberg, *The Johns Hopkins University* Tuomas Sandholm, *University of Massachusetts*

Ethan Scarl, Boeing Defense and Space

Yves Schabes, Mitsubishi Electric Research Laboratory

Cullen Schaffer, CUNY Hunter College Rich Scherl, New Jersey Institute of Technology Jeffrey C. Schlimmer, Washington State University

Jim Schmolze, *Tufts University* Sandip Sen, *University of Tulsa* Ross Shachter, *Stanford University*

Reid Simmons, Carnegie Mellon University

Satinder Singh, Harlequin Inc.
Jeffrey Mark Siskind, Technion
Marc Slack, The MITRE Corporation
Douglas R. Smith, The Kestrel Institute
Padhraic Smyth, Jet Propulsion Laboratory
Lee Spector, University of Maryland

James Spohrer, Apple Computer Rohini K. Srihari, CEDAR/SUNY at Buffalo Sampath Srinivas, Microsoft Corporation Robert St. Amant, University of Massachusetts Jon Stillman, GE Research and Development

Sal Stolfo, Columbia University

Steve Strassmann, Method Software, Inc.

Peter Struss, TU Muenchen

Devika Subramanian, *Rice University*Dan Suthers, *University of Pittsburgh*Kishore Swaminathan, *Andersen Consulting*Katia P. Sycara, *Carnegie Mellon University*

Milind Tambe, University of Southern California/Information

Sciences Institute

Camillo J. Taylor, *University of California, Berkeley* Josh Tenenberg, *Indiana University South Bend*

Moshe Tennenholtz, *Technion, Israel* Loren Terveen, *AT&T Bell Laboratories* Demetri Terzopoulos, *University of Toronto* Paul Thagard, *University of Waterloo*

Richmond H. Thomason, University of Pittsburgh

Sebastian Thrun, Carnegie Mellon University Geoff Towell, Siemens Corporate Research, Inc. Jeff Trinkle, Texas A&M University Matthew Turk, Microsoft Corporation Lyle Ungar, University of Pennsylvania Paul Utgoff, University of Massachusetts Raul E. Valdes-Perez, Carnegie Mellon University Peter van Beek, University of Alberta Ron van der Meyden, Weizmann Institute of Science Pascal Van Hentenryck, Brown University Manuela M. Veloso, Carnegie Mellon University Lluis Vila, University of California, Irvine Marilyn Walker, AT&T Research Laboratories Andreas Weigend, University of Colorado Uri Wilensky, Tufts University David Wilkins, SRI International Brian Williams, NASA Ames Research Center Ron Williams, Northeastern University Randy Wilson, Sandia National Labs Michael Wooldridge, Manchester Metropolitan University Dekai Wu, Hong Kong University of Science & Technology Qiang Yang, Simon Fraser University Ken Yip, Massachusetts Institute of Technology John M. Zelle, Drake University Weixiong (Wayne) Zhang, University of Southern California/Information Sciences Institute Feng Zhao, Ohio State University Shlomo Zilberstein, University of Massachusetts

Auxiliary Reviewers

Srinivas Bollapragada Paolo Bouquet Manonton Butarbutar Brant Cheikes Dennis DeCoste An Hai Doan
Eitan Ephrati
David Etherington
Peyman Faratin
Eugene Fink
Michael Fisher
Nir Friedman
Dan Frost
Olivier Gascuel
Richard Goodwin
Vu Ha
James Helwig
Randall Helzerman
Laurie Ihrig
Felix Ingrand

Randall Helzerman Laurie Ihrig Felix Ingrand Kalev Kask Sven Koenig Franz Kurfess Philippe Laborie Sunil Mohan Liem Ngo Anisoara Nica Tim Norman Simon Parsonsv Peter Patel-Schneider Guiyou Qiu Irina Rish Nicolas Roquette

Irina Rish Nicolas Roquette Luciano Serafini Onn Shehory Peter Spirtes Paulo Traverso