# AI Magazine

## Cumulative Index: Volumes 1-4

## Α

- AAAI President's Message Feigenbaum, Edward Vol II, No 1, p 1, Winter, 1980/81.
- AAAI President's Message. Newell, Allen. Vol I, No. 1, p. 1, Spring, 1980.
- AAAI President's Message. Artificial Intelligence Prepares for 2001. Nilsson, Nils J Vol. IV, No. 4, p 7, Winter, 1983.
- AI Techniques and Methodology. Carbonell, Jaime, & Sleeman, Derek. Vol III, No. 2, p. 47, Spring, 1982
- Advanced Information and Decision Systems: AI At AI&DS. Research in Progress. Vol. II, No. 2, p. 44, Summer, 1981.
- Amarel, Saul Reviews of Books. The Fifth Generation by Feigenbaum and McCorduck. Vol IV, No 3, p. 94, Fall, 1983
- An Approach to Verifying Completeness and Consistency in a Rule-Based Expert System Suwa, Motoi, Scott, A Carlisle, Shortliffe, Edward H Vol. III, No. 4, p 16, Fall, 1982
- Anton, John J See Signal-to-symbol transformation: HASP/SIAP case study.
- Artificial Intelligence: An Assessment of the State-of-the-Art and Recommendation for Future Directions. Waltz, David. Vol IV, No. 3, p 55, Fall, 1983.
- Artificial Intelligence: Engineering, Science, or Slogan? Nilsson, Nils J Vol III, No 1, p. 2, Winter, 1981/82.
- Artificial Intelligence Prepares for 2001 Nilsson, Nils J. Vol. IV, No 4, p. 7, Winter, 1983

## В

- Banerji, Ranan B See On the Relationship Between Strong and Weak Problem Solvers.
- The Banishment of Paper-Work. Samuel, Arthur L Vol. IV, No. 2, p. 31, Summer, 1983.
- Barr, Avron Natural Language Understanding Vol I, No. 1, p. 5, Spring, 1980
- Berliner, Hans. The Fredkin Challenge Match Vol. II, No. 2, p. 30, Summer, 1981
- Bobrow, Daniel G. See Knowledge Programming in Loops: Report on an Experimental Course.
- Bolt Beranek & Newman, Inc : AI Research. Research in Progress Vol III, No. 2, p 44, Spring, 1982
- Brachman, Ron & Schmolze, Jim. Second KL-One Workshop. Vol III, No. 1, p. 15, Winter, 1981/82

- Buchanan, Bruce G. Introduction to the Comtex Microfiche Editor of Memos from the Stanford Artificial Intelligence Laboratory Vol IV, No 4, p 37, Winter, 1983.
- Bundy, Alan. How to Get the Most Out of IJCAI-88 Vol IV, No 1, p 35, Winter-Spring, 1983.
- Bundy, Alan. The Nature of AI: A Reply to Schank Vol. IV, No. 4, p. 29, Winter, 1983
- Bundy, Alan. What Is The Well-Dressed AI Educator Wearing Now? Vol. III, No. 1, p. 13, Winter, 1981/82.

### $\mathbf{C}$

- Carbonell, Jaime, & Sleeman, Derek. AI Techniques and Methodology Vol. III, No 2, p. 47, Spring, 1982.
- Carbonell, Jaime G., Michalski, Ryszard S & Mitchell, Tom M Machine Learning: A Historical and Methodological Analysis. Vol IV, No 3, p 69, Fall, 1983
- Carnegie-Mellon University: Artificial Intelligence Research Research in Progress Vol. II, No. 1, p. 29, Winter, 1980/81
- Carnegie-Mellon University: Introducing The Robotics Institute Research in Progress Vol. II, No 2, p. 34, Summer, 1981.
- Chandrasekaran, B On Evaluating AI Systems for Medical Diagnosis Vol. IV, No. 2, p. 34, Summer, 1983
- Chandrasekaran, B Towards a Taxonomy of Problem Solving Types. Vol IV, No. 1, p. 9, Winter-Spring, 1983
- Clancey, William. Reviews of Books. States of Mind by Jonathan Miller. Vol. IV, No. 4, p. 61, Winter, 1983
- Cohen, Paul R. & Grinberg, Milton R A Theory of Heuristic Reasoning About Uncertainty Vol. IV, No 2, p. 17, Summer, 1983
- Computing Facilities for AI: A Survey of Present and Near-Future Options Fahlman, Scott Vol. II, No. 1, p. 16, Winter, 1980/81.
- Conway, Lynn. See Knowledge Programming in Loops: Report on an Experimental Course.
- Conway, Lynn. See Toward the Principled Engineering of Knowledge.
- Corkill, Daniel D See The Distributed Vehicle Monitoring Testbed: A Tool for Investigating Distributed Problem Solving Networks
- The Current State of AI: One Man's Opinion. Schank, Roger C Vol. IV, No. 1, p 3, Winter-Spring, 1983.

### D

- Davis, Randall. Expert Systems: Where are we? And where do we go from here? Vol. III, No. 2, p. 3, Spring, 1982
- The Distributed Vehicle Monitoring Testbed: A Tool for Investigating Distributed Problem Solving Networks. Lesser, Victor R. & Corkill, Daniel D Vol. IV, No. 3, p 15, Fall, 1983
- Doyle, Jon Methodological Simplicity in Expert System Construction: The Case of Judgments and Reasoned Assumptions. Vol IV, No 2, p 39, Summer, 1983.
- Doyle, Jon. What is Rational Psychology? Toward a modern mental philosophy. Vol. IV, No. 3, p. 50, Fall, 1983.
- Doyle, Jon. What Should AI Want From the Supercomputers? Vol. IV, No 4, p 33, Winter, 1983.

#### $\mathbf{E}$

- Engelmore, Robert S. Reflections on the ARPA Experience. Vol. III, No. 1, p. 11, Winter, 1981/82.
- Ernst, George W. & Banerji, Ranan B. On the Relationship Between Strong and Weak Problem Solvers Vol. IV, No. 2, p. 25, Summer, 1983
- Expert Systems: Where are we? And where do we go from here? Davis, Randall. Vol. III, No 2, p. 3, Spring, 1982

## F

- Fahlman, Scott Computing Facilities for AI: A Survey of Present and Near-Future Options Vol. II, No 1, p. 16, Winter, 1980/81.
- Fairchild Laboratory: Research at Fairchild Research in Progress. Vol IV, No 1, p. 45, Winter-Spring, 1983.
- Feigenbaum, Edward. AAAI President's Message. Vol. II, No. 1, p. 1, Winter, 1980/81.
- Feigenbaum, Edward A, See Signal-to-symbol transformation: HASP/SIAP case study.
- The Fifth Generation by Feigenbaum and McCorduck Reviews of Books. Amarel, Saul. Vol. IV, No. 3, p. 94, Fall, 1983.
- Fikes, Richard E. A Representation System User Interface for Knowledge Base Designers. Vol. III, No. 4, p 28, Fall, 1982.
- Fischler, Martin A. See A More Rational View of Logic or, Up Against The Wall, Logic Imperialists!
- The Fredkin Challenge Match. Berliner, Hans Vol. II, No 2, p 30, Summer, 1981

## G

Gardner, Ann v.d.L Search: An Overview. Vol II, No. 1, p 2, Winter, 1980/81

- Gerring, Phillip E., Shortliffe, Edward H., van Melle, William. The Interviewer/Reasoner Model: An Approach to Improving System Responsiveness in Interactive AI Systems Vol. III, No. 4, p. 24, Fall, 1982.
- Gibbons, James. See Heuristic Search for New Microcircuit Structures: An Application of Artificial Intelligence.
- GLISP: A Lisp-based Programming System with Data Abstraction Novak, Gordon S., Jr Vol. IV, No. 3, p 37, Fall, 1983
- Grinberg, Milton R. See A Theory of Heuristic Reasoning About Uncertainty.
- Grosz, Barbara. Utterance and Objective: Issues in Natural Language Communication. Vol. I, No. 1, p. 11, Spring, 1980
- Guoning, Song See AI Research in the People's Republic of China: A Review.

## $\mathbf{H}$

- Heuristic Programming Project: Artificial Intelligence Research. Research in Progress Vol. IV, No. 3, p. 81, Fall, 1983.
- Heuristic Programming Project: Goals and Activities Research in Progress. Vol. I, No. 1, p. 25, Spring, 1980.
- Heuristic Search for New Microcircuit Structures: An Application of Artificial Intelligence. Lenat, Douglas B., Sutherland, William R., & Gibbons, James. Vol. III, No. 3, p 17, Summer, 1982.
- High-Road and Low-Road Programs. Michie, Donald. Vol III, No / 1, p. 21, Winter, 1981/82.
- How to Get the Most Out of IJCAI-83. Bundy, Alan Vol. IV, No. 1, p 35, Winter-Spring, 1983
- Humans That Think (A Future Trialogue). McCorduck, Pamela Vol. IV, No. 3, p. 35, Fall, 1983

## Ι

- In Memoriam: John G. Gaschnig. Nilsson, Nils J. Vol. III, No. 2, p. 2, Spring, 1982.
- The Interviewer/Reasoner Model: An Approach to Improving System Responsiveness in Interactive AI Systems Gerring, Phillip E, Shortliffe, Edward H., van Melle, William Vol III, No 4, p 24, Fall, 1982
- Introduction to the Comtex Microfiche Edition of the Early MIT Artificial Intelligence Memos. Minsky, Marvin. Vol IV, No 1, p. 19, Winter-Spring, 1983.
- Introduction to the Comtex Microfiche Editor of Memos from the Stanford Artificial Intelligence Laboratory. Buchanan, Bruce G. Vol. IV, No 4, p. 37, Winter, 1983

## J

Jet Propulsion Laboratory (JPL). Research in Progress Vol IV, No. 4, p. 58, Winter, 1983

## K

- The Knowledge Level (AAAI Presidential Address). Newell, Allen Vol. II, No 2, p 1, Summer, 1981
- Knowledge Programming in Loops: Report on an Experimental Course. Stefik, Mark, Bobrow, Daniel G., Mittal, Sanjay & Conway, Lynn. Vol. IV, No 3, p 3, Fall, 1983

## $\mathbf{L}$

- Langley, Pat See Learning from Solution Paths: An Approach to the Credit Assignment Problem.
- Learning from Solution Paths: An Approach to the Credit Assignment Problem. Sleeman, Derek, Langley, Pat, & Mitchell, Tom M Vol. III, No 2, p 48, Spring, 1982
- Lenat, Douglas B, Sutherland, William R., & Gibbons, James. Heuristic Search for New Microcircuit Structures: An Application of Artificial Intelligence. Vol. III, No. 3, p. 17, Summer, 1982
- Lesser, Victor R & Corkill, Daniel D. The Distributed Vehicle Monitoring Testbed: A Tool for Investigating Distributed Problem Solving Networks. Vol IV, No 3, p 15, Fall, 1983.

#### Μ

- Machine Learning: A Historical and Methodological Analysis. Carbonell, Jaime G., Michalski, Ryszard S & Mitchell, Tom M Vol. IV, No. 3, p 69, Fall, 1983.
- Massachusetts Institute of Technology: MIT Artificial Intelligence Laboratory. Research in Progress Vol. I, No. 1, p. 21, Spring, 1980.
- Massachusetts Institute of Technology: AI Research at the Artificial Intelligence Laboratory. Research in Progress. Vol. IV, No 2, p 44, Summer, 1983.
- McCarthy, John. President's Quarterly Message: AI Needs More Emphasis on Basic Research. Vol. IV, No. 4, p. 5, Winter, 1983.
- McCorduck, Pamela Humans That Think (A Future Trialogue). Vol. IV, No. 3, p. 35, Fall, 1983
- McDermott, John. R1: The Formative Years. Vol. II, No. 2, p. 21, Summer 1981.
- Methodological Simplicity in Expert System Construction: The Case of Judgments and Reasoned Assumptions. Doyle, Jon Vol IV, No. 2, p. 39, Summer, 1983
- Michalski, Ryszard S. See Machine Learning: A Historical and Methodological Analysis
- Michie, Donald. High-Road and Low-Road Programs. Vol. III, No. 1, p 21, Winter, 1981/82.
- Minsky, Marvin. Introduction to the Comtex Microfiche Edition of the Early MIT Artificial Intelligence Memos Vol IV, No. 1, p. 19, Winter-Spring, 1983

- Minsky, Marvin Why People Think Computers Can't. Vol III, No 4, p 3, Fall, 1982.
- Mitchell, Tom M. AI research at Rutgers. Vol. III, No 2, p. 36, Spring, 1982.
- Mitchell, Tom M See Learning from Solution Paths: An Approach to the Credit assignment problem
- Mitchell, Tom M See Machine Learning: A Historical and Methodological Analysis.
- Mittal, Sanjay See. Knowledge Programming in Loops: Report on an Experimental Course.
- A More Rational View of Logic or, Up Against The Wall, Logic Imperialists! Pentland, Alex P. & Fischler, Martin A. Vol. IV, No 4, p 15, Winter, 1983.

### N

- Natural Language Understanding Barr, Avron Vol I, No 1, p 5, Spring, 1980.
- The Nature of AI: A Reply to Schank. Bundy, Alan Vol IV, No. 4, p 29, Winter, 1983
- Newell, Allen AAAI President's Message. Vol. I, No. 1, p. 1, Spring, 1980.
- Newell, Allen. The Scientific Relevance of Robotics. Vol. II, No. 1, p. 24, Winter, 1980/81
- Newell, Allen. The Knowledge Level (AAAI Presidential Address) Vol. II, No 2, p. 1, Summer, 1981
- Nii, H. Penny, Feigenbaum, E. A., Anton, J. J., & Rockmore, A J Signal-to-symbol transformation: HASP/SIAP case study Vol III, No. 2, p. 23, Spring, 1982.
- Nilsson, Nils J Artificial Intelligence: Engineering, Science, or Slogan? Vol. III, No. 1, p 2, Winter, 1981/82
- Nilsson, Nils J. Artificial Intelligence Prepares for 2001. Vol IV, No 4, p. 7, Winter, 1983.
- Nilsson, Nils. In Memoriam: John G Gaschnig. Vol. III, No. 2, p 2, Spring, 1982.
- Novak, Gordon S., Jr. GLISP: A Lisp-based Programming System with Data Abstraction. Vol. IV, No. 3, p. 37, Fall, 1983

#### O

- On Evaluating AI Systems for Medical Diagnosis Chandrasekaran, B. Vol. IV, No 2, p. 34, Summer, 1983.
- On the Discovery and Generation of Certain Heuristics. Pearl, Judea. Vol IV, No. 1, p 23, Winter-Spring, 1983.
- On the Relationship Between Strong and Weak Problem Solvers Ernst, George W. & Banerji, Ranan B. Vol. IV, No. 2, p. 25, Summer, 1983.

- Pearl, Judea On the Discovery and Generation of Certain Heuristics Vol IV, No. 1, p 23, Winter-Spring, 1983.
- Pentland, Alex P. & Fischler, Martin A. A More Rational View of Logic or, Up Against The Wall, Logic Imperialists! Vol. IV, No. 4, p 15, Winter, 1983.
- People's Republic of China: A Review of AI Research. Xinsong, Jiang, Guoning, Song, & Yu, Chen Vol. IV, No 4, p 43, Winter, 1983
- President's Quarterly Message: AI Needs More Emphasis on Basic Research. McCarthy, John Vol. IV, No. 4, p. 5, Winter, 1983
- Problem Solving Tactics Sacerdoti, Earl D Vol II, No. 1, p 7, Winter, 1980/81
- Psychological Studies and Artificial Intelligence. Ringle, Martin Vol IV, No 1, p. 37, Winter-Spring, 1983

#### R

- R1: The Formative Years McDermott, John Vol. II, No 2, p. 21, Summer, 1981.
- Reflections on the ARPA Experience Engelmore, Robert S. Vol III, No. 1, p 11, Winter, 1981/82.
- Rendell, Larry A Toward a Unified Approach for Conceptual Knowledge Acquisition. Vol IV, No 4, p. 19, Winter, 1983.
- A Representation System User Interface for Knowledge Base Designers Fikes, Richard E. Vol III, No 4, p 28, Fall, 1982
- Research in Progress. AI&DS: AI At AI&DS. Vol. II, No. 2, p 44, Summer, 1981.
- Research in Progress. Bolt Beranek & Newman, Inc : AI Research. Vol. III, No. 2, p. 44, Spring, 1982.
- Research in Progress. Carnegie-Mellon University: Artificial Intelligence Research Vol. II, No. 1, p. 29, Winter, 1980/81.
- Research in Progress Carnegie-Mellon University: Introducing The Robotics Institute. Vol. II, No. 2, p. 34, Summer, 1981
- Research in Progress. Fairchild Laboratory: Research at Fairchild. Vol IV, No. 1, p 45, Winter-Spring, 1983.
- Research in Progress. Heuristic Programming Project: Artificial Intelligence Research. Vol. IV, No. 3, p 81, Fall, 1983.
- Research in Progress. Heuristic Programming Project: Goals and Activities Vol I, No. 1, p. 25, Spring, 1980.
- Research in Progress. Jet Propulsion Laboratory (JPL). Vol. IV, No. 4, p 58, Winter, 1983
- Research in Progress. Massachusetts Institute of Technology: AI Research at the Artificial Intelligence Laboratory Vol. IV, No. 2, p. 44, Summer, 1983
- Massachusetts Institute of Technology: Research in Progress Artificial Intelligence Laboratory. Vol. I, No. 1, p. 21, Spring, 1980

- Research in Progress Rutgers: AI Research. Vol III, No 2, p. 36, Spring, 1982
- Research in Progress. SRI International, Artificial Intelligence Center Vol I, No. 1, p. 30, Spring, 1980.
- Research in Progress Robotics at Stanford Vol II, No 1, p 27, Winter, 1980/81.
- Research in Progress. University of Massachusetts: AI and Brain-Theory Research. Vol III, No 1, p. 16, Winter, 1981/82
- Research in Progress. University of Texas, Austin. Vol IV, No 4, p. 55, Winter, 1983.
- Research in Progress. USC, Information Sciences Institute Vol. I, No 1, p. 22, Spring, 1980
- Research in Progress. Yale Artificial Intelligence Project Vol. II, No. 2, p 42, Summer, 1981
- Research in Progress. Yale University: Cognition and Programming Project. Vol. IV, No. 1, p. 17, Winter-Spring, 1983.
- Reviews of Books The Fifth Generation by Feigenbaum and McCorduck Amarel, Saul Vol. IV, No 3, p. 94, Fall, 1983
- Reviews of Books. States of Mind by Jonathan Miller Clancey, William. Vol IV, No. 4, p. 61, Winter, 1983
- Ringle, Martin Psychological Studies and Artificial Intelligence. Vol IV, No. 1, p. 37, Winter-Spring, 1983
- Rockmore, A J See Signal-to-symbol transformation: HASP/-SIAP case study.
- Rutgers: AI Research. Research in Progress Vol III, No 2, p. 36, Spring, 1982

## S

- Sacerdoti, Earl D. Problem Solving Tactics Vol. II, No. 1, p. 7, Winter, 1980/81.
- Samuel, Arthur L. The Banishment of Paper-Work. Vol IV, No 2, p. 31, Summer, 1983.
- Schank, Roger C. The Current State of AI: One Man's Opinion Vol IV, No 1, p. 3, Winter-Spring, 1983
- Schmolze, Jim, See Second KL-One Workshop
- The Scientific Relevance of Robotics Newell, Allen. Vol. II, No. 1, p 24, Winter 1980/81.
- Scott, A. Carlisle, See An Approach to Verifying Completeness and Consistency in a Rule-Based Expert System.
- Search: An Overview Gardner, Ann v.d.L. Vol. II, No 1, p 2, Winter, 1980/81
- Second KL-One Workshop. Brachman, Ron & Schmolze, Jim. Vol. III, No 1, p. 15, Winter, 1981/82
- Shortliffe, Edward H. See An Approach to Verifying Completeness and Consistency in a Rule-Based Expert System.
- Shortliffe, Edward H See The Interviewer/Reasoning Model: An Approach to Improving System Responsiveness in Interactive AI Systems

- Signal-to-symbol transformation: HASP/SIAP case study Nii, H. Penny, Feigenbaum, Edward A., Anton, John J., & Rockmore, A. J Vol. III, No. 2, p 23, Spring, 1982
- Sleeman, Derek, See AI Techniques and Methodology
- Sleeman, Derek, Langley, Pat, & Mitchell, Tom M Learning from Solution Paths: An Approach to the Credit Assignment Problem. Vol. III, No. 2, p. 48, Spring, 1982.
- SRI International, Artificial Intelligence Center. Research in Progress. Vol. I, No. 1, p. 30, Spring, 1980. Stanford University Robotics at Stanford. Research in Progress Vol. II, No. 1, p. 27, Winter 1980/81
- States of Mind by Jonathan Miller Reviews of Books. Clancey, William Vol. IV, No. 4, p. 61, Winter, 1983
- Stefik, Mark, Bobrow, Daniel G., Mittal, Sanjay & Conway, Lynn Knowledge Programming in Loops: Report on an Experimental Course. Vol. IV, No. 3, p. 3, Fall, 1983
- Stefik, Mark, & Conway, Lynn Toward the Principled Engineering of Knowledge. Vol. III, No. 3, p 4, Summer, 1982
- Sutherland, William R. See Heuristic Search for New Microcircuit Structures: An Application of Artificial Intelligence.
- Suwa, Motoi, Scott, A. Carlisle, Shortliffe, Edward H An Approach to Verifying Completeness and Consistency in a Rule-Based Expert System. Vol. III, No. 4, p. 16, Fall, 1982.

#### T

- A Theory of Heuristic Reasoning About Uncertainty. Cohen, Paul R. & Grinberg, Milton R. Vol IV, No. 2, p. 17, Summer, 1983.
- Toward a Unified Approach for Conceptual Knowledge Acquisition Rendell, Larry A. Vol. IV, No. 4, p. 19, Winter, 1983.
- Toward the Principled Engineering of Knowledge Stefik, Mark, & Conway, Lynn Vol. III, No. 3, p. 4, Summer, 1982
- Towards a Taxonomy of Problem Solving Types Chandrasekaran, B. Vol. IV, No. 1, p. 9, Winter-Spring, 1983

## $\mathbf{U}$

- University of Massachusetts: AI and Brain-Theory Research. Research in Progress Vol. III, No 1, p 16, Winter, 1981/82.
- University of Texas, Austin. Research in Progress Vol. IV, No. 4, p. 55, Winter, 1983.
- USC, Information Sciences Institute. Research in Progress. Vol. I, No. 1, p. 22, Spring, 1980.
- Utterance and Objective: Issues in Natural Language Communication. Grosz, Barbara Vol I, No. 1, p 11, Spring, 1980.

#### V

- van Melle, William, See The Interviewer/Reasoning Model: An Approach to Improving System Responsiveness in Interactive AI Systems
- A View of the Fifth Generation And Its Impact Warren, David H. D Vol. III, No 4, p. 34, Fall, 1982

#### W

- Waltz, David. Artificial Intelligence: An Assessment of the Stateof-the-Art and Recommendation for Future Directions. Vol IV, No. 3, p 55, Fall, 1983.
- Warren, David H D. A View of the Fifth Generation And Its Impact. Vol III, No. 4, p. 34, Fall, 1982.
- What is Rational Psychology? Toward a modern mental philosophy. Doyle, Jon. Vol. IV, No 3, p. 50, Fall, 1983
- What Is The Well-Dressed AI Educator Wearing Now? Bundy, Alan Vol. III, No. 1, p 13, Winter, 1981/82.
- What Should AI Want From the Supercomputers? Doyle, Jon Vol IV, No 4, p. 33, Winter, 1983
- Why People Think Computers Can't Minsky, Marvin. Vol. III, No 4, p. 3, Fall, 1982.
- Willick, Marshal S. Artificial Intelligence: Some Legal Approaches and Implications Vol IV, No. 2, p. 5, Summer, 1983

#### X

Xinsong, Jiang, Guoning, Song, & Yu, Chen. AI Research in the People's Republic of China: A Review. Vol. IV, No. 4, p. 43, Winter, 1983.

#### $\mathbf{Y}$

- Yale Artificial Intelligence Project Research in Progress. Vol. II, No. 2, p. 42, Summer, 1981
- Yale University: Cognition and Programming Project Research in Progress. Vol. IV, No 1, p. 17, Winter-Spring, 1983.
- Yu, Chen. See AI Research in the People's Republic of China: A Review.