



[CALENDAR](#) | [BUSINESS](#) | [TECHNOLOGY](#) | [SPONSORS / PARTNERS](#) | [JOIN](#) | [ABOUT US](#)

☰ [return to calendar](#)

Artificial Intelligence From Research to Reality - Expert Systems



Part Three of the Artificial Intelligence Series

wednesday, february 16 2005
7:00pm- 9:00pm

**Pre-registration for this event is closed.
Please register at the door.**

On-line registration closes at 2:00 p.m. the day of the event.

Series Overview:

Artificial Intelligence Series - From Research to Reality

In 1956, John McCarthy invited a group of leading researchers to Dartmouth to participate in a conference on the newly coined field of Artificial Intelligence. Since then many astonishing things have happened. Deep Blue beat Gary Kasparov at chess. Currently, DARPA has created a very practical Grand Challenge to accelerate research in autonomous vehicles. As it has been almost 50 years since the dream of Artificial Intelligence was articulated, it is appropriate to look back at some key ideas and how they are changing our lives.

SDForum presents a series of panels Called "Artificial Intelligence: From Research to Reality". Each panel takes a topic and looks at how it has evolved from its research roots to current realities. The topics are Expert Systems, Computer Games, Robotics and Machine Learning.

Expert Systems: Part Three of the Artificial Intelligence Series

The Rule-based Systems panel highlights one of the areas of Artificial Intelligence that initially seemed the most promising, and which received the most publicity. While many people remember the "Fifth Generation" computer projects and the resulting "AI Winter" with disdain, expert systems have quietly become essential

to many application areas and are rapidly becoming a part of the standard toolkit for enterprise applications.

Panelists

Moderator: Dr. Frederick (“Rick”) Hayes-Roth ([bio](#)), Professor of Information Sciences, [Monterey Naval Postgraduate School](#), and Former Chief Technology Officer/Software, [Hewlett-Packard Company](#)

Lincoln Evans-Beauchamp ([bio](#)), CEO, [EWA Systems Inc.](#)

Edward Feigenbaum ([bio](#)), Professor of Computer Science and Co-Scientific Director of the Knowledge Systems Laboratory, [Stanford University](#)

Jean Pommier ([bio](#)), Vice-President Worldwide Professional Services, [ILOG Inc.](#)

Speaker Bios

Lincoln Evans-Beauchamp

Lincoln is an enterprise analytics and decision support industry thought leader. Over the last 15 years, his advanced work in the field has been distinguished by his strong grasp of the business problems and strategies his clients require. (M.S. Stanford University, B.S. Webb Institute)

EWA Systems' enterprise analytics suite integrates a comprehensive Java-based suite of reinforcing statistical and artificial intelligence algorithms, including rules-based, neural network, and Bayesian algorithms, and specific tools, such as image analysis, spatial pattern recognition, natural language processing, data visualization and decision support solutions. This suite has been applied to many industries, including e-commerce, finance, manufacturing and the military, to great success. Past expert systems applications have included an America's cup sailing tactical and strategic advisor, and an antisubmarine warfare advisor for the US Navy.

Dr. Frederick (“Rick”) Hayes-Roth

Dr. Rick Hayes-Roth teaches and conducts research at the Naval Postgraduate School (NPS) in Monterey. He focuses on distributed intelligent systems, me-centric computing, shared models for collaboration and network-centric integration, and valued information at the right time (VIRT) services. As chief technical officer for Hewlett-Packard's software organization, Dr. Hayes-Roth held a critical role in developing and implementing global technical strategies for HP OpenView and HP Netaction software suites. Dr. Hayes-Roth led efforts to define and implement company-wide strategy in all software focus areas, including business integration,

web services, wireless mobility, rich media, and ubiquitous management.

Previously, he was the Chairman and chief executive officer for Globalstake.com Corporation, a spin-off of Teknowledge Corporation, where he raised \$4M in funding to start this consumer-oriented Internet real estate company.

Before that, Dr. Hayes-Roth was a co-founder and executive vice president of Teknowledge and the only top executive to remain after the merger with American Cimflex. During his tenure at Cimflex Teknowledge, Dr. Hayes-Roth was responsible for crafting business partnerships with Procter and Gamble, Ford Motor Company and General Motors. He co-founded the joint venture among the automotive companies, NCMS, and several software companies for Rapid Response Manufacturing, a 5-year \$100M collaboration. Dr. Hayes-Roth became Chairman and CEO of the company (TEKC) in 1994. He has been Principal Investigator for several DARPA projects, and was the Chief Architect for an entire program developing an object-web, collaboration-based next-generation command-control system for joint and coalition task forces.

Dr. Hayes-Roth has held numerous engineering and management positions in the high-tech industry and the academic, research and government sectors. He was a Research Program Manager at The Rand Corporation and held faculty positions at MIT, Stanford University and Carnegie-Mellon University. Dr. Hayes-Roth holds a Ph.D. in mathematical psychology and an M.S. in computer and communication sciences from The University of Michigan, and an A.B., with honors, from Harvard University. He has published three books and more than 100 papers. He is an elected Fellow of the American Association for Artificial Intelligence. He has been on many editorial boards, including IEEE Spectrum.

Edward Feigenbaum

Edward Feigenbaum is a Professor of Computer Science and Co-Scientific Director of the Knowledge Systems Laboratory at Stanford University. Dr. Feigenbaum served as Chief Scientist of the United States Air Force from 1994 to 1997.

Professor Feigenbaum was Chairman of the Computer Science Department and Director of the Computer Center at Stanford University. Until 1992 Dr. Feigenbaum was Co-Principal Investigator of the national computer facility for applications of Artificial Intelligence to Medicine and Biology known as the SUMEX-AIM facility, established by NIH at Stanford University. He is the Past President of the American Association for Artificial Intelligence. He has served on the National Science Foundation Computer Science Advisory Board, an ARPA study committee for Information Science and Technology; and on the National Research Council's Computer Science and Technology Board. He has been a member of the Board of Regents of the National Library

of Medicine.

He was the co-editor of the encyclopedia, *The Handbook of Artificial Intelligence*, and of the early book, *Computers and Thought*, published by McGraw-Hill. He is co-author of the McGraw-Hill book, *Applications of Artificial Intelligence in Organic Chemistry: The DENDRAL Program* and was the founding editor of the McGraw-Hill Computer Science Series. He is co-author with Pamela McCorduck of the book *The Fifth Generation: Artificial Intelligence and Japan's Computer Challenge to the World*, published by Addison-Wesley (1983) and by New American Library (1984). He is also co-author with Penny Nii and Pamela McCorduck of the book, *The Rise of the Expert Company*, on corporate successes in the use of expert systems, published by Times Books in New York and Macmillan in London (1988).

He is a co-founder of three start-up firms in applied artificial intelligence, IntelliCorp, Teknowledge and Design Power Inc. and served as a member of the Board of Directors of IntelliCorp and Design Power Inc. He also was a member of the Board of Directors of Sperry Corporation prior to its merger with Burroughs. He is a member of the Advisory Council of the Kansai Silicon Valley Venture Forum.

He was elected to the National Academy of Engineering in 1986. In the same year, he was elected to the Productivity Hall of Fame of the Republic of Singapore. He is an elected Fellow of the American Association for Artificial Intelligence, the honorary American College of Medical Informatics. He was elected to the American Academy of Arts and Sciences in 1991. He is the first recipient of the Feigenbaum Medal, an award established in his honor by the World Congress of Expert Systems. He was elected Fellow to the American Institute of Medical and Biological Engineering in January 1994. He was a recipient of the 1994 ACM Turing Award. He was named Kumagai Professor of Computer Science at Stanford University in 1995. He received the U.S. Air Force Exceptional Civilian Service Award in 1997.

Education: B.S., Ph.D., Carnegie Mellon University

Jean Pommier

Jean is currently Vice President with ILOG, in charge of the Worldwide Professional Services organization. Jean joined ILOG at its creation in 1987, in the R&D group. Since 1990, he has then led several important initiatives, including the company's technical account management, customer education and quality assurance programs. He established ILOG's services organization, creating new practice areas for business rule management systems and resource optimization. Overall, Jean has contributed to more than 400 successful ILOG customer implementations.

In the late 1980s, he co-developed an expert system shell, *Classic*, for heuristic classification, leveraging fuzzy logic. Among many

applications, Classic's pattern matching techniques were used in computer-based image recognition. In the early 1990s, Jean led the development and deployment of several large and successful industrial expert systems based on ILOG's expert system shell, Smeci. Lisp-based, Smeci offered an intuitive platform to experts, including task-based programming, meta-reasoning, a frame language and graphical tools to represent business objects. Later, Jean's consulting team has been involved in numerous constructions of decision support systems in a wide variety of industries. Those projects are based on ILOG's BRMS (Business Rule Management System) platforms and leverage ILOG implementation methodology, ISIS (ILOG Solution Implementation Standard), with tracks and artifacts specific to knowledge management and business logic.

Prior to ILOG, Jean was a database administrator for the European Organization for Nuclear Research (CERN), where he helped build and maintain one of the largest Oracle installations in Europe.

Jean earned an engineering degree (ENSAM, Paris) and a M.S. in Computer Sciences and Artificial Intelligence of University of Nice (CERICS).

Event Logistics

Agenda

6:30 p.m. – 7:00 p.m. - Networking/Registration

7:00 p.m. – 9:00 p.m. - Program

Location

PARC-George E. Pake Auditorium

3333 Coyote Hill Road

Palo Alto, CA

[Directions](#)

Registration

Cost*

\$25 SDForum Members

\$40 Non-Members

*at the door add \$10 to member and non-member prices

Pre-registration for this event is closed.

Please register at the door.

