The Innovative Applications of Artificial Intelligence Conference

Sponsored by the American Association for Artificial Intelligence
In cooperation with IJCAI, Inc.

Jan Akins, Xerox Corporation, IAAI-95 Program Chair
Howard Shrobe, Massachusetts Institute of Technology; IAAI-95 Cochair

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IAAI-95 Schedule

All IAAI-95 sessions will be held in Room 407C, fourth level, Palais des Congrès de Montréal.

Monday, August 21

8:45 - 9:00 AM  Opening Remarks
Jan Akins (Program Chair), Xerox Corporation

9:00 - 10:30 AM  Invited Panel: AI in the Capital Markets
Organized by Ganesh Mani, LBS Capital Management, Inc.
Panelists: Yaser Abu-Mostafa, Caltech; Steven L. Amentrout, University of Maryland; Steve Ward, Ward Systems Group, and Hal White, University of California, San Diego.

10:30 - 10:50 AM  Break

10:50 AM - 12:50 PM  Session: Finance
Session Chair: Jan Akins

10:50 - 11:20 AM  The GE Compliance Checker: A Generic Tool for Assessing Mortgage Loan Resale Requirements
Sue Bynum, Robert Noble, and Cheryl Todd, GE Capital Mortgage Corporation; Ben Bloom, Brightware, Inc.

11:20 - 11:50 AM  GENIUS: Combining Knowledge Engineering and Machine Learning to Achieve Balanced Risk Assessment
David C. Galbersuch, GE Corporate Research and Development; Rebecca Towne and Cheryl Wiebe, GE Capital Mortgage Corporation

11:50 AM - 12:20 PM  The FinCEN Artificial Intelligence System (FAIS)

12:20 - 12:50 PM  Meet the Authors
2:00 – 5:40 PM  
**Session: Business**
Session Chair: Bruce Buchanan, University of Pittsburgh

2:00 – 2:30 PM  
PCE: Generating Business Plans for New Products
Don Palese, International Business Machines and Elizabeth Wall Ralston, Brightware, Inc.

2:30 – 3:00 PM  
SAMS: Strategic Account Management System
Howard Kleinert, Canon USA, Inc. and Raj Rao, Brightware, Inc.

3:00 – 3:30 PM  
Experience with the Development and Deployment of Expert Systems in Agriculture
Ahmed A. Rafea, Sayed El-Azhari, Iman Ibrahim, Soliman Elbres, and Mostafa Mahmoud, Ministry of Agriculture and Land Reclamation, Egypt

3:30 – 3:50 PM  
Break

3:50 – 5:20 PM  
**Invited Panel: Using Computation to Enhance Democracy**
Moderator: Randall Davis, Massachusetts Institute of Technology
Panelists: Howard E. Shrobe, ARP/WIT, others TBA

5:20 – 5:40 PM  
Meet the Authors

6:30 – 9:00 PM  
IJCAI-95 Opening Ceremony and Reception
Room 611, Sixth floor, Palais des Congrès de Montréal

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**Tuesday, August 22**

9:00 – 10:00 AM  
**Invited Talk: Image-Guided Brain Surgery**
Eric Crinio, Massachusetts Institute of Technology
Introduction by Howard E. Shrobe, ARP/WIT

10:00 – 10:20 AM  
Break

10:20 – 12:10 PM  
**Session: Transportation/Scheduling**
Session Chair: Philip A. Kahr, Information Corporation

10:20 – 10:50 AM  
Scheduling of Marine Resources in the Port of Singapore Authority: A Total Approach
Goh Kwong Long, Goh Kek Sing, Lye Chee Whye, Tan Huay Hwa, and Tay Eng Kiang, Port of Singapore Authority

10:50 – 11:20 AM  
EPO: A Knowledge Based System for Wood Procurement Management
Seppo Linnainmaa, Juha Savola and Olli Jokinen, VTT Information Technology, Finland

11:20 – 11:50 AM  
DAS: Intelligent Scheduling Systems for Shipbuilding
Jae Kyu Lee and Young Jo Lee, Korea Advanced Institute of Science and Technology; Eun Young Kim, Daewoo Heavy Industries Ltd.

11:50 AM – 12:10 PM  
Meet the Authors

2:00 – 3:30 PM  
**Invited Panel: SIMNET (Intelligent Simulation in the Military)**
Moderator: Paul Rosenblum, University of Southern California/Information Sciences Institute
Panelists: Randy Garrett, Advanced Research Projects Agency; Dennis McBride, Naval Research Laboratory; David Y. Tseng, Hughes Research Laboratories

3:30 – 3:50 PM  
Break

3:50 – 5:40 PM  
**Session: Military**
Session Chair: Ted E. Senator, U.S. Department of the Treasury
3:50 – 4:20 PM  Automated Consultation for the Diagnosis of Interplanetary Telecommunications
A G Quan, U.M. Shwvlak, J.S. Herstein, and J.S. Spagnuolo, Jet Propulsion Laboratory, California Institute of Technology

4:20 – 4:50 PM  Automated Image Processing for Scientific Data Analysis
Steve A Chien and Helen B. Mortensen, Jet Propulsion Laboratory, California Institute of Technology

4:50 – 5:20 PM  SABRE
William C. Branley, Jr. and Earnest D. Harris, U.S. Army AI Center

5:20 – 5:40 PM  Meet the Authors

Wednesday, August 23

9:00 – 10:30 AM  **Session: Troubleshooting**
Session Chair: Howard E. Shrobe, ARPA/MIT

9:00 – 9:30 AM  Development of Self-Maintenance Photocopiers
Yoshiki Shimomura and Sedao Tanigawa, Mita Industrial Co. Ltd., Japan; Yasushi Umeda and Tetsu Tomiyama, The University of Tokyo

9:30 – 10:00 AM  AGETS MBR: An Application of Model-Based Reasoning to Gas Turbine Diagnostics
Howard A. Winston and Robert T. Clark, United Technologies Research Center; Gene Buchina, United Technologies/Pratt & Whitney Government Engine and Space Propulsion

10:00 – 10:30 AM  IMPACT: Development and Deployment Experience of Network Event Correlation Applications
Gabriel Jakobson, Mark Weisman and Shri Goyal, GTE Laboratories

10:30 – 10:50 AM  Break

10:50 – 11:20 AM  AutoCell — An Intelligent Cellular Mobile Network Management System
Chee-Meng Low and You-Tong Tan, Information Technology Institute, Singapore; Soo-Yong Choo, Soo-Hung Lau and Jin-Tong Lim, Singapore Telecom

11:20 AM – 12:10 PM  **Session: Manufacturing/Design**
Session Chair: Howard E. Shrobe, ARPA/MIT

11:20 – 11:50 AM  Equation- and Knowledge-Based Generative Gear Design System
Karon Barber and Matthew Ord, General Motors Corporation

11:50 AM – 12:10 PM  Meet the Authors