# Conference Schedule

**Monday, Nov. 4, 2002**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>8:45-9:00</td>
<td>Welcome</td>
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| 9:00-10:00    | Keynote Speech I: New Areas of Applied Artificial Intelligence Research  
*Jeffrey J.P. Tsai*  
University of Illinois at Chicago, USA and  
President, Taichung Healthcare and Management University, Taiwan |
| 10:00-10:30   | Coffee Break                                 |
| 10:30-12:30   | **Session 1-A Machine Learning I**  
**Session Chair:** Alex Delis, University of Athens, Greece  
About Adaptive State Knowledge Extraction for Septic Shock Mortality Prediction  
*R. W. Brause*  
Updating A Hybrid Rule Base with New Empirical Source Knowledge  
*J. Prentzas, I. Hatzilygeroudis, and A. Tsakalidis*  
Data Sniffing - Monitoring of Machine Learning for Online Adaptive Systems  
*Y. Liu, T. Menzies, and B. Cukic*  
Machine Learning and Software Engineering  
*D. Zhang and J. J. P. Tsai* |
| 10:30-12:30   | **Session 1-B Data Mining and Knowledge Discovery I**  
**Session Chair:** Jianping Zhang, Mitre Corporation, USA  
Data Mining Using Cultural Algorithms and Regional Schema  
*X. Jin and R. G. Reynolds*  
Data Mining for Selection Visualization of Large Spatial Datasets  
*S. Shekhar, C.-T. Lu, P. Zhang, and R. Liu*  
Mining Association Rules in Text Databases Using Multipass with Inverted Hashing and Pruning.  
*J. D. Holt and S. M. Chung*  
A Tool for Extracting XML Association Rules  
*D. Braga, A. Campi, S. Ceri, M. Klemeettinen, and P. L. Lanzi* |
| 10:30-12:30   | **Session 1-C Constraint Satisfaction**  
**Session Chair:** I-Ling Yen, University of Texas at Dallas, USA.  
Calculus of Variations in Discrete Space for Constrained Nonlinear Dynamic Optimization  
*Y. Chen and B. W. Wah*  
On Temporal Planning as CSP  
*A. D. Mali*  
Actions with Duration and Constraints: The Ramification Problem in Temporal Databases  
*N. Papadakis and D. Plexousakis*  
A Lazy Divide And Conquer Approach to Constraint Solving  
*S. Anand, W.-N. Chin, and S.-C. Khoo* |
| 12:30-14:00   | Lunch                                        |
| 14:00-15:00   | Keynote Speech II: Data Mining for Counter-Terrorism  
*Bhavani Thuraisingham*  
National Science Foundation, USA |
| 15:00-15:30   | Coffee Break                                 |
| 15:30-17:30   | **Session 2-A Intelligent Information Retrieval**  
**Session Chair:** Soon M. Chung, Wright State University, USA  
Context Query in Information Retrieval  
*C.-H. Chi, C. Ding, and K.-Y. Lam*  
EasyTransport: An Effective Navigation and Transportation Guide for Wide Geographic Areas  
*M. Fragouli and A. Delis*  
Ontology for Knowledge Representation in a Computer-based Patient Record  
*E. Bayegan, O. Nytro, and A. Grimsmo*  
Ontology Construction for Information Selection  
*L. Khan and F. Luo* |
**Tuesday, Nov. 5, 2002**

| 15:30-17:30 | Session 2-B Planning and Scheduling I  
Session Chair: Robert G. Reynolds, Wayne State University, USA  
Application of AI Planning Techniques to Automated Code Synthesis and Testing  
I.-L. Yen, F. B. Bastani, F. Mohamed, and H. Ma  
Distributed Graphplan  
M. Iwen and A. D. Mali  
Crane Scheduling Using Tabu Search  
A. Lim, B. Rodrigues, F. Xiao, and Y. Zhu  
An Intelligent Brokering System to Support Multi-Agent Web-Based Fourth-Party Logistics  
H. C. Lau and Y. G. Goh |
| 15:30-17:30 | Session 2-C Intelligent Real-Time Systems  
Session Chair: Bojan Cukic, West Virginia University, USA  
A TMO Based Approach to Structuring Real-Time Agents  
K. H. Kim  
Selection Process of Intelligent Decision Support Tool for a Real-time Monitoring System  
H. Vafaie, M. Shaughnessy, T. Bethem, and J. Burton  
Diagnosis of Component Failures in the Space Shuttle Main Engines Using Bayesian Belief Networks: A Feasibility Study  
E. Liu and D. Zhang  
Dynamic Refinement of Classification Rules  
K. K. Manchi and X. Wu |

| 9:00-10:00 | Keynote Speech III: TBA |
| 10:00-10:30 | Coffee Break |
| 10:30-12:30 | Session 3-A Planning and Scheduling II  
Session Chair: Haleh Vafaie, Northrop Grumman Information Technology, USA  
DSatz: A Directional SAT Solver for Planning  
M. Iwen and A. D. Mali  
Maintenance Scheduling of Oil Storage Tanks Using Tabu-based Genetic Algorithm  
S.T. Li, C.K. Ting, C. Lee, and S.C. Chen  
Transportation Modeling: An Artificial Life Approach  
P. Lučić and D. Teodorović  
Adjusted Network Flow for the Shelf-Space Allocation Problem  
A. Lim, B. Rodrigues, F. Xiao, and X. Zhang |
| 10:30-12:30 | Session 3-B Machine Learning II  
Session Chair: Xindong Wu, University of Vermont, USA  
Error-Based Pruning of Decision Trees Grown on Very Large Data Sets Can Work!  
L. O. Hall, R. Collins, K. W. Bowyer, and R. Banfield  
Improving the Orthogonal Range Search k-windows Algorithm  
P. Alevizos, B. Boutsinas, D. Tasoulis, and M. N. Vrahatis  
Machine Learning for Software Engineering: Case Studies in Software Reuse  
J. S. Di Stefano and T. Menzes  
Protein Secondary Structure Prediction with Bayesian Learning Method  
P. -L. Wang and D. Zhang |
| 10:30-12:30 | Session 3-C Logic and Reasoning  
Session Chair: Dan Cooke, Texas Tech, USA  
Software Measurement Data Analysis Using Memory-Based Reasoning  
Object-based Representation and Classification of Spatial Structures and Relations  
F. Le Ber and A. Napoli  
Automatic Analysis of Composite Solvers  
E. Petrov and E. Monfroy  
A Tool for Belief Updating over Time in Bayesian Networks  
J. Yang, C. K. Mohan, K. G. Mehrotra and P. K. Varshney |

<p>| 12:30-14:00 | Lunch |</p>
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| 14:00-16:00  | Session 4-A Natural Language Processing | Chilukuri Krishna Mohan, Syracuse University, USA | Combining Finite State Automata and a Greedy Learning Algorithm to Determine the Syntactic Roles of Commas  
S. van Delden and F. Gomez  
Automated Diagnosis of Non-Native English Speakers’ Natural Language  
R. Fox and M. Bowden  
Logic Grammars for Diagnosis and Repair  
H. Christiansen and V. Dahl  
Reasoning on Aspectual Temporal Information in French within Conceptual Graphs  
T. Amaghar, D. Battistelli, and T. Charnios |
| 14:00-16:00  | Session 4-B Multimedia and Image Processing | Du Zhang, California State University, USA | Word Endpoint Correction Techniques for a Text-to-Multimedia Composition System  
K. Turkowski, B. Hamidzadeh, and R. Ward  
Projecting Our Presence in Space and in Time  
D. E. Cooke  
A Clustering Based Approach to Efficient Image Retrieval  
R. Zhang and Z. Zhang  
Active Tracking and Cloning of Facial Expressions Using Spatio-Temporal Information  
L. Yin, A. Basu and M. T. Yourst  
Detecting Similarities and Differences in Images Using the PFF and LGG Approaches  
N. Bourbakis |
| 14:00-16:00  | Session 4-C Data Mining and Knowledge Discovery II | Lawrence Hall, University of South Florida, USA | Software Quality Classification Modeling Using The SPRINT Decision Tree Algorithm  
T. M. Khoshgoftaar and N. Seliya  
TimeSleuth: A Tool for Discovering Causal and Temporal Rules  
K. Karimi and H. J. Hamilton  
Mining Characteristic Rules for Understanding Simulation Data  
J. Zhang, J. Bala, P. S. Barry, T. E. Meyer, and S. K. Johnson  
A Framework for Adaptive Mail Classification  
G. Manco, E. Masciari, and A. Tagarelli |
| 16:00-16:30  |                          |                                                    | Coffee Break |
| 16:30-18:00  | Panel on AI Directions   | N. Bourbakis, Wright State University, USA | Moderator: N. Bourbakis |
| 18:00-18:30  |                          |                                                    | Break |
| 18:30-20:30  |                          |                                                    | Conference Dinner |

**Wednesday, Nov. 6, 2002**

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<th>Time</th>
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<th>Session Chair</th>
<th>Topic</th>
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<tr>
<td>9:00-10:00</td>
<td>Keynote Speech V: Design of Interdisciplinary Systems/Services</td>
<td>Hiroshi Yamaguchi, NEC, Japan</td>
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10:00-10:30  |                          |                                                    | Coffee Break |
| 10:30-12:30  | Session 5-A Internet Software | Raymond Paul, Department of Defense, USA | Building Secure Survivable Semantic Webs  
B. Thuraisingham  
Automatic Repairing of Web Wrappers by Combining Redundant Views  
B. Chidlovskii  
NeuroWeb: An Internet-Based Neural Network Simulator  
E. Schikuta  
An Agent-based Approach to Inference Prevention in Distributed Database Systems  
J. Tracy, L.W. Chang, and I. S. Moskowitz |
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<tr>
<td>10:30-12:30</td>
<td>Session 5-B Planning and Scheduling III</td>
<td>Interactive Verification of Game Design and Playing Strategies</td>
<td>D. Kalles and E. Ntoutsi</td>
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<td>Metric Estimation via a Fuzzy Grade-of-Membership Model Applied to Analysis of Business Opportunities</td>
<td>B. G. Talbot, B. B. Whitehead, and L. M. Talbot</td>
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<td>Local Search Algorithms to Improve the Local Search</td>
<td>M. Tounsi and P. David</td>
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<td>10:30-12:30</td>
<td>Session 5-C Multi-Agents</td>
<td>The Semantics of Proactive Communication Acts Among Team-based Agents</td>
<td>J. Yen and X. Fan</td>
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<td>Agent Warehouse: A New Paradigm for Mobile Agent Deployment</td>
<td>C.-H. Chi, J. Sim, and K.-Y. Lam</td>
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<td>Cooperative Co-learning: A Model-based Approach for Solving Multi Agent Reinforcement Problems</td>
<td>B. Scherrer and F. Charpillet</td>
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<td>Reinforcement Learning in Multiagent Systems: A Modular Fuzzy Approach with Internal Model Capabilities</td>
<td>M. Kaya and R. Alhaj</td>
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<tr>
<td>12:30-14:00</td>
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<td>Lunch</td>
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<td>14:00-16:00</td>
<td>Session 6-A Neural Network and Applications</td>
<td>Hiding a Logo Watermark into Multiwavelet Domain Using Neural Networks</td>
<td>J. Zhang, N. Wang, and F. Xion</td>
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<td>Function Approximation Using Robust Wavelet Neural Networks</td>
<td>S.T. Li and S.C. Chen</td>
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<td>A Trace-Scaling Agent for Parallel Application Tracing</td>
<td>F. Freitag, J. Caubet, and J. Labarta</td>
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<td>A Neural Network-based Image Segmentation Tool for Color Images</td>
<td>D. Goldman, M. Yang, and N. Bourbakis</td>
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<td>14:00-16:00</td>
<td>Session 6-B Software Engineering and Knowledge Sharing</td>
<td>Study For Fusion Of different Sources To Determine Relevance</td>
<td>C. H. Chi, C. Ding, and K. Y. Lam</td>
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<td>EER-ConcepTool: A &quot;Reasonable&quot; Environment for Schema and Ontology Sharing</td>
<td>H. Meisel and E. Compatangelo</td>
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<td>Fusing Cooperative Technical-Specification Knowledge Components</td>
<td>É. Grégoire</td>
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<td>Evolution and Evaluation of Software Quality Models</td>
<td>C. V. Ramamoorthy</td>
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