

ICCI'02 Advanced Program

<http://www.enel.ucalgary.ca/ICCI2002>

Sunday, August 18, 2002	
19:00-21:00 Welcome Reception and Registration Room 516, ICT Building	
Monday, August 19, 2002	
8:30 – 9:30, Lecture Theatre III, ICT Building Welcome	
9:30 – 11:00, Lecture Theatre III Keynote Session I Computational Neurology and Psychology Chair: Yingxu Wang Keynote 1.1: Hybrid Computation with an Attractor Neural Network James A. Anderson Keynote 1.2: From Embodied Cognitive Science to Synthetic Psychology Michael R.W. Dawson Keynote 1.3: How Do I Trust Thee? Let Me Count The Ways ... Tom Maibaum	
11:00 – 11:15, Coffee break	
11:15 – 12:15, Lecture Theatre III Session 1(A) Cognitive Informatics Chair: Shushma Patel Integrating Cognitive Support with CASE-Tools for Design Recovery Jens H. Jahnke Awareness in Logic and Cognitive Neuroscience Ahti Pietarinen A Software Engineering Cognitive Knowledge Discovery Framework Vincent Chiew	11:15 – 12:15, Lecture Theatre II Session 1(B) Agent Software and Autonomy Chair: Michael Smith A Simplified Protocol Operational Semantics for Multiagent Protocols Jean-Luk Koning Agent-Based Hierarchical Video Presentation over Internet Linsong Cai, Xiao Liu and Wael Badawy An Agent-Assisted Document Storage for Software Process Environments Jason J.Y. Chen and Chun-Yi Lin
12:15 – 13:30 Lunch, Grad Lounge	
13:30 – 15:30, Lecture Theatre III Keynote Session II Cognitive Informatics Chair: James A. Anderson Keynote 2.1: Informatics and Distributed Representation: Taking Issue with Disembodied Realism Antony Bryant Keynote 2.2: On Cognitive Informatics Yingxu Wang Keynote 2.3: Problems, Solutions and Information Systems Development Dilip Patel Keynote 2.4: Cognitive Informatics: A Knowledge Engineering Perspective Christine Chan	
15:30 – 15:45, Coffee break	

<p>15:45 – 17:15, Lecture Theatre III Session 2(A) Expressive Mathematics Chair: Jifeng He</p> <p>A New Mathematical Notation for Describing Notions and Thoughts in Software Design Yingxu Wang</p> <p>Introducing the Golden Section to Computer Science N. Lopez, M. Nunez, I. Rodrigues and F. Rubio</p> <p>Experience using Formal Methods for Capturing Requirements of Web-Based Applications Abdesselam Redouane</p> <p>Scientific Curve Classification by Combining Simple Algorithms James R. Parker</p>	<p>15:45 – 17:15, Lecture Theatre II Session 2(B) Fuzzy Systems Chair: Behrouz Far</p> <p>A Fuzzy Paradigm Approach for the Cognitive Process of Categorization Cristina M. Varachiu and Nicolae Varachiu</p> <p>Computational Intelligence for Medical Knowledge Acquisition with Application to Glaucoma Nicolae Varachiu, Cynthia Karanicolos and Mihaela Uliru</p> <p>Mining Fuzzy Rules in a Donor Database for Direct Marketing by a Charitable Organization Keith C.C. Chan, Wai-Ho Au and Berry Choi</p> <p>Agent Paradigm to Solve a Complex Optimization Problem Amar Ramdane-Cherif, Nicole Levy, Hicham Djenidi and Chakib Tadj</p>
<p>19:00-22:00 Banquet Restaurant La Tasca, Calgary</p>	
<p style="text-align: center;">Tuesday, August 20, 2002</p>	
<p>8:30 – 11:00, Lecture Theatre III Keynote Session III System Modeling Chair: Tom Maibaum</p> <p>Keynote 3.1: Model and Heuristic Technique for Efficient Verification of Component-Based Software Systems Jeffrey J.P. Tsai (with E.Y.T. Juan)</p> <p>Keynote 3.2: Towards a Refinement Calculus for Object Systems Jifeng He (with Z. Liu and X. Li)</p> <p>Keynote 3.3: Software Metrics and Human Factors for WIBIS Motoei Azuma</p> <p>Keynote 3.4: Understanding Problems and Problem Situations - A Systems Approach Shushma Patel</p> <p>Keynote 3.5: System Modeling and Design Using Genetic Programming Henry Leung (with V. Varadan)</p>	
<p>11:00 – 11:15, Coffee break</p>	
<p>11:15 – 12:35, Lecture Theatre III Session 3(A) Natural Intelligence (NI) Chair: Witold Kinsner</p> <p>Cognitive Models of the Brain Yingxu Wang and Ying Wang</p> <p>An Interaction-Based Approach for Structuring Coordination Activities Lars Taxen</p> <p>A Methodology for Assessing User's Skill Grade to Implement Adaptive User Interface Systems Hitoshi Nagasaki and Motoei Azuma</p> <p>Combining Multiple Non-Homogeneous Classifiers: An Empirical Approach James R. Parker</p>	<p>11:15 – 12:35, Lecture Theatre II Session 3(B) Artificial Intelligence (AI) Chair: Christine Chan</p> <p>Theoretical and Practical Aspects of Computer Speech Processing Zygmunt Ciota</p> <p>Concurrent Self-Organizing Maps for Pattern Classification Victor Neagoie and Armand Ropot</p> <p>Pattern Recognition of the Selection Sort Algorithm Ronald Finkbine</p> <p>Design of a Framework for Electronic Commerce Brokers Nadia Bouassida, Thouraya Ayadi, Hanene Ben-Abdallah and Faiez Gargouri</p>

12:35 – 13:45 Lunch, Grad Lounge	
13:45 – 15:15, Lecture Theatre III Keynote Session IV Autonomic Information Processing Chair: Michael R.W. Dawson Keynote 4.1: An Agent-Based Framework for Developing Flexible Distributed Systems Kenji Sugwara Keynote 4.2: Compression and Its Metrics for Multimedia Witold Kinsner Keynote 4.3: Software Agents: Quality, Complexity, and Uncertainty Issues Behrouz H. Far Keynote 4.4: On the Informatics Laws of Software Yingxu Wang	
15:15 – 15:30, Coffee break	
15:30 – 16:30, Lecture Theatre III Session 4(A) Learning and Comprehension Chair: Behrouz Far Modeling Comprehension Processes in Software Development Tom Klemola and Juergen Rilling Quasi-Morphism and Comprehensibility of Rules in Inductive Learning Wiphada Wettayaprasit, Chidchanok Lursinsap, and Cheehung H. Chu Program Comprehension as a Learning Process V. Rajlich	15:30 – 16:30, Lecture Theatre II Session 4(B) Object Recognition Chair: Keith Chan A Framework for Object Identification and Refinement Process in Object-Oriented Analysis and Design Romi S. Wahono and Behrouz H. Far Face Recognition using a Fuzzy-Gaussian Neural Network Victor E. Neagoie and Iulia F. Iatan
16:30-17:30 Lecture Theatre III Panel Session: Perspectives on Future Development in CI Chair: Dilip Patel Panelists: James Anderson, Tom Maibaum, Wtold Kinsner, Michael Dawson, Jeffrey Tsai, Christine Chan, Behrouz Far, Yingxu Wang, etc.	