

**Sunday, June 14, 2009**

<b>Time</b>	<b>Peachtree Ballroom B</b>	<b>Peachtree Ballroom C</b>	<b>Peachtree Ballroom D</b>	<b>Peachtree Ballroom E</b>
8:00AM	Tutorial M1_T1: Self-Organized Criticality: Avalanches in Neural Networks, Active Learning, and Intelligent Control - J. Michael Herrmann & Anna Levina	Tutorial M1_T2: Basics of DHP Type Adaptive Critics/ Approximate Dynamic Programming and Some Application Issues - George G. Lendaris	Tutorial M1_T3: The CLARION Cognitive Architecture - Sebastien Helie & Ron Sun	Tutorial M1_T4: To Spike or not to Spike - Nikola Kasabov
10:00AM	Coffee Break			
10:30AM	Tutorial M2_T5: Plasticity Revisited: Motivating New Algorithms Based On Recent Neuroscience Research - Tsvi Achler	Tutorial M2_T6: Applications of Adaptive Critic Designs - Radhakant Padhi & Ganesh Kumar Venayagamoorthy	Tutorial M2_T7: Cognitive Memory: Human and Machine - Bernard Widrow	Tutorial M2_T8: Self-organizing Incremental Neural Network and its Application - Shen Furao & Osamu Hasegawa
12:30PM	Lunch Break (on your own)			
1:30PM	Tutorial A1_T9: Hippocampal Dynamics and Related Cognitive Functions: From Neurophysiological Observations to Computational Models - Colin Molter	Tutorial A1_T10: Autonomous Machine Learning - Asim Roy	Tutorial A1_T11: Fundamentals of Categorical Neural Semantic Theory - Thomas Caudell & Michael J. Healey	Tutorial A1_T12: Introduction to Bioinformatics Data Sets Mining Using Fuzzy Biclustering - Francesco Masulli & Stefano Rovetta
3:30PM	Coffee Break			
4:00PM	Tutorial A2_T13: Computational Approach to the Functioning of the Hippocampus: From Natural to Artificial Information Processing - Peter Erdi & Zsofia Huhn	Tutorial A2_T14: The Effective Use of the Time Domain in Neural Network Models - Ravi Rao	Tutorial A2_T15: Complex-Valued Neural Networks - Akira Hirose	Tutorial A2_T16: Ensemble-Based Systems in Computational Intelligence: Data Fusion, Missing Features, Incremental & Nonsationary Learning - Robi Polikar
6:30PM	Opening Reception - Welcome and Opening Remarks - Robert Kozma - Atlanta Ballroom F			
8:00PM	End of Tutorials			

Monday, June 15, 2009

Time	Peachtree Ballroom B	Peachtree Ballroom C	Peachtree Ballroom D	Peachtree Ballroom E
8:00AM	Plenary Talk 1: Large-scale Neural Systems for Vision and Cognition - Gail Carpenter (Chair: Jacek Zurada)			
9:00AM	Coffee Break			
9:30AM	Special Session S08a: Large-Scale Neural Systems: From Biology to Technology (Chair: Gail Carpenter)	Session MMO1: Neural Dynamics and Chaos (Chair: Ali Minaï)	Session MMO2: Unsupervised Learning 1 (Chair: Pablo Estevez)	Special Session S17: Adaptive Dynamic Programming for Feedback Control (Chairs: Frank Lewis & Sarangapani Jagannathan)
11:30AM	Break			
11:40AM	Special Session S08b: Large-Scale Neural Systems: From Biology to Technology (Chair: Gail Carpenter)	Session MMO3: Reinforcement Learning (Chair: Derong Liu)	Session MMO4: Brain Machine Interfaces (Chair: Steve Potter)	Panel Session 1: Government Interests in Neural Network Research (Chair: Leonid Perlovsky)
12:40PM	Lunch Break (on your own)			
1:40PM	Plenary Talk 2: Neural Synchrony and Selective Attention - Robert Desimone (Chair: Hualou Liang)			
2:40PM	Coffee Break			
3:10PM	Special Session S13: Power Systems (Chair: Jung-Wook Park)	Session MA01: Image Processing (Chair: DeLiang Wang)	Session MA02: Computational Neuroscience (Chair: Ron Sun)	Special Session S19: Advances in Machine Learning (Chair: Donald C. Wunsch)
5:10PM	Break			
5:20PM	Session MA03: Vision (Chair: Jose Alfredo F. Costa)	Session MA04: Neuromorphic Engineering (Chair: Tarek Taha)	Session MA05: Biomedical Applications (Chair: Maciej Mazurowski)	Session MA06: Finance (Chair: Francesco C. Morabito)
6:20PM	Break			
6:30PM	General Poster Session (Chair: Leonid Perlovsky) - Room: South Hall-Atlanta Merchandise Mart			
8:00PM	End of Conference Day 1			

Tuesday, June 16, 2009

Time	Peachtree Ballroom B	Peachtree Ballroom C	Peachtree Ballroom D	Peachtree Ballroom E
8:00AM	Plenary Talk 3: Memristor: 38 Years Later - Leon Chua (Chair: Donald C. Wunsch)			
9:30AM	Coffee Break			
10:00AM	Special Session S01: From Desktop to Bedside - CI for Biopatterns (Chairs: Leif Peterson & Paulo Lisboa)	Session TMO1: Neural Hardware (Chair: Changyin Sun)	Session TMO2: Supervised Learning (Chair: Robi Polikar)	Special Session S10: Hippocampal Models, from Circuitry to Dynamics, from Dynamics to Cognitive Functions (Chairs: Colin Molter & Yoko Yamaguchi)
11:40AM	Break			
11:50AM	Session TMO3: Sensors and Sensor Networks (Chair: Cedric Bornand)	Session TMO4: Support Vector Machines (Chair: Pablo Estevez)	Session TMO5: Neurocontrol (Chair: Edgar Sanchez)	Special Session S03a: CI in Medical Diagnosis (Chairs: George Tourassi, Mia Markey & Maciej Mazurowski)
12:50PM	Lunch Break (on your own)			
1:50PM	Plenary Talk 4: Large Scale Model of The Human Brain - Eugene Izhikevich (Chair: Nikola Kasabov)			
2:50PM	Coffee Break			
3:20PM	Special Session S07: NN Models of the Human Mind: Thinking, Decision Making, and Social Interaction (Chairs: Dan Levine & Ron Sun)	Session TAO1: Brain Based Models 1 (Chair: Jennie Si)	Session TAO2: Kernel Methods (Chair: Vladimir Cherkassky)	Special Session S02: CI in Direct Support of Patient Care (Chairs: James DeLeo, Alexandru Floares & Adam E. Gaweda)
5:20PM	Break			
5:30PM	Panel Session 2: Neural Network Models for the Human Mind: Thinking, Decision Making, and Social Interaction (Chair: Dan Levine & Ron Sun)	Session TAO3: Brain Based Models 2 (Chair: Matthew Casey)	Session TAO4: Machine Vision (Chair: Raghavendra Kulkarni)	Special Session S03b: CI in Medical Diagnosis (Chairs: Georgia Tourassi, Mia Markey & Maciej Mazurowski)
6:30PM	Special and General Poster Session (Chair: Leonid Perlovsky) - Room: South Hall-Atlanta Merchandise Mart			
8:00PM	End of Conference Day 2			

**Wednesday, June 17, 2009**

Time	Peachtree Ballroom B	Peachtree Ballroom C	Peachtree Ballroom D	Peachtree Ballroom E
8:00AM	Plenary Talk 5: Brain-like Intelligence Inside - Towards Autonomously Interacting Systems - Edgar Koerner (Chair: Peter Erdi)			
9:00AM	Plenary Talk 6: Spike Timing, Rhythms, and The Effective Use of Neural Hardware - John Hopfield (Chair: Ganesh Kumar Venayagamoorthy)			
10:00AM	Coffee Break			
10:30AM	Special Session S11: Neural Modeling Fields: Foundations and Applications (Chair: Jose Fontanari)	Session WMO1: Unsupervised Learning 2 (Chair: Komla Folly)	Panel Session 3: Celebrating the 50th Anniversary of the Invention of the LMS Algorithm (Chairs: Jennie Si, Robert Kozma & Irwin King)	Special Session S18: Incremental Learning/Learning in Nonstationary Environments (Chair: Robi Polikar)
12:30PM	Lunch Break (on your own)			
1:40PM	Plenary Talk 7: Cognitive Memory: Human and Machine - Bernard Widrow (Chair: Jennie Si)			
2:40PM	Coffee Break			
3:10PM	Special Session S12: Complex-valued Neural Networks (Chairs: Jacek Zurada, Akira Hirose & Igor Aizenberg)	Session WAO1: Learning Methods and Applications (Chair: Luis Alexandre)	Session WAO2: Power Systems (Chair: Ganesh Kumar Venayagamoorthy)	Special Session S15: The Relevance of the Time Domain to Neural Network Models (Chairs: Ravi Rao & Guillermo Cecchi)
5:10PM	Break			
5:20PM	Session WAO3: Time Series Analysis (Chair: Ahmed Saber)	Session WAO4: Robotics (Chair: Ayanna Howard)	Session WAO5: Nonlinear Functions (Chair: Paul Werbos)	Special Session S05: Biometrics (Chair: Khan Iftekharuddin)
6:20PM	Break			
6:30PM	Pre-Banquet Reception – Peachtree Ballroom Foyer			
8:00PM	Awards Banquet – Peachtree Ballroom			
10:00PM	End of Conference Day 3			

Thursday, June 18, 2009

Time	Peachtree Ballroom B	Peachtree Ballroom C	Peachtree Ballroom D	Peachtree Ballroom E
8:00AM	Plenary Talk 8: Can Consciousness Ever be Modelled? - John Taylor (Chair: Walter J. Freeman)			
9:00AM	Coffee Break			
9:30AM	Special Session S04: SC Tools for Bioinformatics (Chairs: Alexandru Floares & Francesco Masulli)	Session ThMO1: Hybrid Algorithms (Chairs: Kaynak Okayay & Laszlo Koczy)	Session ThMO2: Spiking Neural Networks (Chairs: Nikola Kasabov & Jochen Triesch)	Session ThMO3: Cognitive Mechanisms and Modeling 1 (Chairs: Sebastien Helie & Simona Dobioli)
11:30AM	Break			
11:40AM	Session ThMO4: Attractor Networks and Decisions (Chair: George Lendaris)	Session ThMO5: Bioinformatics (Chair: Ganesh Kumar Venayagamoorthy)	Session ThM06: Earth and Environmental Sciences (Chairs: Vladimir Krasnopolsky & Dimitri Solomatine )	Session ThMO7: Cognitive Mechanisms and Modeling 2 (Chair: Paolo Arena)
12:40PM	End of the Conference			

## Thursday, June 18, 2009 - Post-Conference Workshop

Time	Atlanta Ballroom B	Atlanta Ballroom C	Atlanta Ballroom D	Atlanta Ballroom G
2:00PM	ThWA_02: Metrics for Human-Level AI ( <i>Chair: Tsvi Achler</i> )	ThWA_03: Autonomous Machine Learning ( <i>Chair: Asim Roy</i> )	ThWA_04: Computational Intelligence Approaches for the Analysis of Bioinformatics Data 1 ( <i>Chairs: Roberto Tagliaferri &amp; Elia Biganzoli</i> )	ThWA_05: Advances in Neurodynamic Systems 1 ( <i>Chairs: Robert Kozma, Colin Molter &amp; J.P. Thivierge</i> )
3:15PM	Coffee Break			
3:45PM	ThWA_02: Metrics for Human-Level AI ( <i>Chair: Tsvi Achler</i> )	ThWA_03: Autonomous Machine Learning ( <i>Chair: Asim Roy</i> )	ThWA_04: Computational Intelligence Approaches for the Analysis of Bioinformatics Data 1 ( <i>Chairs: Roberto Tagliaferri &amp; Elia Biganzoli</i> )	ThWA_05: Advances in Neurodynamic Systems 1 ( <i>Chairs: Robert Kozma, Colin Molter &amp; J.P. Thivierge</i> )
5:00PM	End of the Workshop Day 1			

## Friday, June 19, 2009 - Post-Conference Workshop Day 2

Time			Atlanta Ballroom C	Atlanta Ballroom D
9:00AM			ThWA_04: Computational Intelligence Approaches for the Analysis of Bioinformatics Data 2 <i>(Chairs: Roberto Tagliaferri &amp; Elia Biganzoli)</i>	ThWA_05: Advances in Neurodynamic Systems 2 <i>(Chairs: Robert Kozma, Colin Molter &amp; J.P. Thivierge)</i>
10:15AM	Coffee Break			
10:45AM			ThWA_04: Computational Intelligence Approaches for the Analysis of Bioinformatics Data 1 <i>(Chairs: Roberto Tagliaferri &amp; Elia Biganzoli)</i>	ThWA_05: Advances in Neurodynamic Systems 2 <i>(Chairs: Robert Kozma, Colin Molter &amp; J.P. Thivierge)</i>
12:00PM	Lunch Break (on your own)			
1:00PM				ThWA_05: Advances in Neurodynamic Systems 3 <i>(Chairs: Robert Kozma, Colin Molter &amp; J.P. Thivierge)</i>
2:15PM	Coffee Break			
2:30PM				ThWA_05: Advances in Neurodynamic Systems 3 <i>(Chairs: Robert Kozma, Colin Molter &amp; J.P. Thivierge)</i>
4:00PM	End of the Post-Conference Workshop			