IJCNN 2011: SCHEDULE GRIDS
Sunday, July 31, 2011: Tutorials

	Cedar	Monterey	Carmel	San Martin	San Simeon
8:00 am - 10:00 am	**T1:** Signal Processing & Machine Learning Approaches in Brain-Machine Interfaces *G. Garcia-Molina*	**T2:** Adaptive Critic Designs *G.K. Venayagamoorthy*	**T3:** Introduction to the Evaluation of Neural Networks and Other Decision Functions *D. Brown*	**T4:** Dynamic Logic *L. Perlovsky*	T5: Complex-Valued Neural Networks: New Trends & Applications *I. Aizenberg, D. Mandic & A. Hirose*
10:00 am - 10:30 am	**Break**				
10:30 am - 12:30 pm	**T6:** Neuropercolation & Neurodynamics *W.J. Freeman & R. Kozma*	**T7:** Advanced Computational & Learning Methods for Smart Grid *G.K. Venayagamoorthy*	**T8:** Evolving Neural Networks *Risto Miikkulainen*	**T9:** Computational Social Science I: Sociodynamics *P. Erdi*	**T10:** Learning Deep Architectures and Applications *K. Chen*
12:30 pm – 1:30 pm	**Lunch Break**				
1:30 pm - 3:30 pm	**T11:** Cognitive Memory *B. Widrow*	**T12:** Brain-Like Prediction, Decision and Control *P. Werbos*	**T13:** Advanced Methodologies for Learning Sparse Data *V. Cherkassky*	**T14:** Computational Social Science II: Social Systems *P. Erdi*	**T15:** Conformal Predictions for Reliable Machine Learning. *V. Balasubraminian, S. Ho, S. Panchanathan, V. Vovk*
3:30 am - 4:00 am	**Break**				
4:00 pm - 6:00 pm	**T16:** Autonomous Machine Learning *A. Roy*	**T17:** Computation with Locally-Connected Dynamical Systems *G. Pazienza*	**T18:** Ensemble Learning through Diversity Management *H. Chen & X. Yao*	**T19:** Effective Modeling of the Time Domain in Neural Networks *A.R. Rao & G.A. Cecchi*	**T20:** Stochastic Artificial Neurons and Neural Networks *R. Windecker*
6:00 pm 6:30 pm	**Break**				
6:30 pm - 8:00 pm	**Opening Reception**				

Monday, August 1, 2011

	Cedar	Pine	Oak	Monterey	Carmel	Santa Clara
8:00 am - 9:00 am	**Plenary Talk: Learning Motor Skills in Humans and Humanoids** **Stefan Schaal** (University of Southern California)					
9:00 am - 9:30 am	**Coffee Break**					
9:30 am - 11:30 am	Session Mo1-1 Embodied & Developmental Robotics	Session Mo1-2 Recurrent Networks	Session Mo1-3 Autonomous and Incremental Learning (AIL)	Session Mo1-4 Neurocontrol I: Methods	Session Mo1-5 Supervised, Unsupervised & Ensemble Learning	Session Mo1-6 Feature Extraction
11:30 am - 11:40 am	**Break**					
11:40 am - 12:40 pm	Session Mo2-1 Hybrid Intelligent Systems	Session Mo2-2 Models of Neurobiological Disorders	Session Mo2-3 Auditory Perception & Learning	Session Mo2-4 Neurocontrol II: Applications	Session Mo2-5 Clustering	Session Mo2-6 Music Recognition & Generation
12:40 pm – 1:50 pm	**Lunch Break**					
1:50 pm - 2:50 pm	**Plenary Talk: Neural Network ReNNaissance** **Juergen Schmidhuber** (IDSIA, Switzerland)					
2:50 pm - 3:20 pm	**Coffee Break**					
3:20 pm - 5:20 pm	Session Mo3-1 Emerging Neuromorphic Hardware	Session Mo3-2 Reinforcement Learning I	Session Mo3-3 Brain-Mind Architectures	Session Mo3-4 Bayesian Systems	Session Mo3-5 Visualization	Session Mo3-6 Signal Processing in Biology & Engineering
5:20 pm - 5:30 pm	**Break**					
5:30 pm - 6:30 pm	Session Mo4-1 Intelligent Embedded Systems	Session Mo4-2 Reinforcement Learning II	Session Mo4-3 Autonomous Learning	Session Mo4-4 Cognitive Systems	Session Mo4-5 Panel: Undergrad Education in Cognitive Sci & NN	Session Mo4-6 Neuromorphic Engineering
6:30 pm - 7:30 pm	**Break**					
7:30 pm - 9:00 pm	**Poster Session A**					

Tuesday, August 2, 2011

	Cedar	Pine	Oak	Monterey	Carmel	Santa Clara
8:00 am - 9:00 am	**Plenary Talk: Brains, Machines and Buildings** **Michael Arbib** (University of Southern California)					
9:00 am - 9:30 am	**Coffee Break**					
9:30 am - 11:30 am	Session Tu1-1 Computational Intelligence in Patient Care	Session Tu1-2 Self-Organization	Session Tu1-3 From Brains to Machines I	Session Tu1-4 Kernel Methods & SVM I	Session Tu1-5 Consciosness-Driven Vision	Session Tu1-6 Feed-Forward Networks
11:30 am - 11:40 am	**Break**					
11:40 am - 12:40 pm	Session Tu2-1 Automated Supervised & Unsupervised Lrng	Session Tu2-2 Deep Learning	Session Tu2-3 From Brains to Machines I (cont.)	Session Tu2-4 Information Retrieval	Session Tu2-5 Bio-Inspired Computational Vision	Session Tu2-6 Evolutionary Learning
12:40 pm – 1:50 pm	**Lunch Break**					
1:50 pm - 2:50 pm	**Plenary Talk: Cognitive Computing: Neuroscience, Supercomputing and Nanotechnology** **Dharmendra Modha (**IBM Almaden Research Center)					
2:50 pm - 3:20 pm	**Coffee Break**					
3:20 pm - 5:20 pm	Session Tu3-1 Smart Grid and Energy Applications I	Session Tu3-2 Fuzzy Methods	Session Tu3-3 From Brains to Machines II	Session Tu3-4 Kernel Methods & SVM II	Session Tu3-5 Competition: Traffic Sign Recognition	Session Tu3-6 Applications I
5:20 pm - 5:30 pm	**Break**					
5:30 pm - 6:30 pm	Session Tu4-1 Smart Grid and Energy Applications II	Session Tu4-2 Radial Basis Function Networks	Session Tu4-3 From Brains to Machines II (cont.)	Session Tu4-4 Information Theoretic Methods	Session Tu4-5 Driver Fatigue & Distraction	Session Tu4-6 Classification
6:30 pm - 7:30 pm	**Break**					
7:30 pm - 9:00 pm	**Poster Sessions B & C**					

Wednesday, August 3, 2011

	Cedar	Pine	Oak	Monterey	Carmel	Santa Clara
8:00 am - 9:00 am	**Plenary Talk : Challenges for Computational Vision: From Random Dots to the Wagon Wheel Illusion** **Leon Glass** (McGill University)					
9:00 am - 9:30 am	**Coffee Break**					
9:30 am - 11:30 am	Session We1-1 Memristor Minds I	Session We1-2 From Neuroscience to Robotics & HCI	Session We1-3 Socio-Cultural & Linguistic Phenomena	Session We1-4 Unsupervised Learning I	Session We1-5 Applications II	Session We1-6 Time Series Modeling & Prediction
11:30 am - 11:40 am	**Break**					
11:40 am - 12:40 pm	Session We2-1 Memristor Minds II	Session We2-2 Mining the Brain	Session We2-3 Autonomous Social Learning	Session We2-4 Unsupervised Learning II	Session We2-5 Concept Drift & Dynamic Environments	Session We2-6 Financial Applications
12:40 pm – 1:50 pm	**Lunch Break**					
1:50 pm - 2:50 pm	**Plenary Talk: Deep Learning and Unsupervised Feature Learning** **Andrew Ng** (Stanford University)					
2:50 pm - 3:20 pm	**Coffee Break**					
3:20 pm - 6:00 pm	Session We3-1 Talks & Panel: Is the Memristor the Future of AI?	Session We3-2 Natural Human-Computer Interfaces	Session We3-3 Neural Network Models and Human Nature	Session We3-4 Optimization	Session We3-5 Complex-Valued Neural Networks	Session We3-6 Learning & Neural Dynamics
6:00 pm - 6:15 pm	**Break**					
6:15 pm - 7:30 pm	**Rumelhart Memorial Session and Plenary Talk** **Learning Natural Language Semantics, Michael I Jordan** (University of California Berkeley) Bayshore Ballroom					
7:30 pm - 8:00 pm	**Break**					
8:00 pm - 10:00 pm	**Banquet** Gateway Ballroom					

Thursday, August 4, 2011

	Cedar	Pine	Oak	Monterey	Carmel	Santa Clara
8:00 am - 9:30 am	**Featured Plenary Session: The Emergence of Mind** **The Making of the Mind through the Action-Perception Cycle - Walter J. Freeman** (University of California Berkeley) **Conscious Experience and the Observing Ego : A Dynamic Global Workspace Hypothesis - Bernard J. Baars** (The Neurosciences Institute) **Social Cognition: Learning Gaze Following, Joint Attention, Imitation, and Tool Use - Stephen Grossberg** (Boston University)					
9:30 am - 10:00 am	**Coffee Break**					
10:00 am - 12:20 pm	Session Th1-1 Bioinformatics & Biomedical Applications	Session Th1-2 Spiking Neural Networks	Session Th1-3 Autonomous Machine Learning Panels I & II	Session Th1-4 Brain-Computer Interface & EEG	Session Th1-5 Pattern Analysis: Biology & Engineering	Session Th1-6 Robotics and Control
12:20 pm – 2:00 pm	**Lunch Break**					

Thursday, August 4, 2011: Workshops

	Monterey	Carmel	San Carlos	San Juan	San Martin	San Simeon
2:00 pm - 5:00 pm	**Workshop W-1: Autonomous Machine Learning,** Organizers: N. Srinivasa and A. Roy	**Workshop W-2: Concept Drift & Learning in Non-Stationary Environments,** Organizers: R. Polikar, C. Alippi, M. Roveri and H. He	**Workshop W-3: Cognition and the Fringe: Intuition, Feelings of Knowing, and Coherence,** Organizers: B. Mangan, B.J. Baars and U. Awret	**Workshop W-4: Integral Biomathics,** Organizers: P. Simeonov and A. Ehresmann	**Workshop W-7: Results and Methods for the Neural Network Grand Forecasting Challenge on Time-Series Prediction,** Organizers: S. Crone and N. Kourentzes	**Workshop W-8: Future Perspectives of Neuromorphic Memristor Science and Technology,** Organizers: R. Kozma and R. Pino

Friday, August 5, 2011: Workshops

	Monterey	Carmel
9:00 am - 12:00 noon	**Workshop W-5: Neuromorphic Hardware: VLSI Spiking Neural Networks (SNN) and Bio-Sensors,** Organizers: S. Renaud, G. Indiveri, H. Chen and E. Culurciello	**Workshop W-6: IJCNN Competitions,** Organizers: I. Guyon and S. Crone
12:00 noon – 1:30 pm	**Lunch Break**	
1:30 pm – 4:30 pm	**Workshop W-5: Neuromorphic Hardware: VLSI Spiking Neural Networks (SNN) and Bio-Sensors,** Organizers: S. Renaud, G. Indiveri, H. Chen and E. Culurciello	**Workshop W-6: IJCNN Competitions,** Organizers: I. Guyon and S. Crone