IJCNN 2004 & FUZZ-IEEE 2004 SHEDULE AT-A-GLANCE

Sunday, 25 July, 2004

09.00 - 11.00 Tutorials

IJCNN	Room	В	Neural Networks That Actually Work In Prediction and Decision/Control: Common Misconceptions Versus Real-World Success Paul J. Werbos
FUZZ- IEEE	Room	E	Data Mining, Modeling and Knowledge Discovery in Bioinformatics Nik Kasabov

11.15 – 13.15 Tutorials

IJCNN	Room	B	Kalman Filter Training of Neural Networks: Methodology and Applications Danil Prokhorov
_	Room	E	Introduction to Clustering Techniques
IEEE			Katsuhiro Honda, Francesco Masulli, Stefano Rovetta

14.30 - 16.30 Tutorials

	Room	B	Neural Control Systems
IJCNN			Bernard Widrow
IJCININ		D	Autonomous Mental Development: A New Frontier for Computational Intelligence
			Juyang Weng
FUZZ-	Room	Е	Fuzzy Sets for Words: Why Type-2 Fuzzy Sets Should be Used and How They Can be
IEEE			Used
IBEE			Jerry Mendel

16.45 - 18.45 Tutorials

	Room B Feature extraction in Computational Intelligence		Feature extraction in Computational Intelligence
IJCNN		D	<i>Evangelia Micheli-Tzanakou</i> Cellular Visual Microprocessors: Theory, Implementation and Applications <i>Csaba Rekeczky and Ákos Zarándy</i>

18.00 – 19.00 Public Lecture

	Room	С	Clinical Results with the Model 1 IRP implant
IJCNN			Mark Humayun, D. Yanai, R.J. Greenberg, J. Little, B.V. Mech, M. Mahadevappa,
			J.D. Weiland, G.Y. Fujii, E. deJuan, Jr.

19.00 - 21.00

IJCNN & FUZZ- IEEE		Welcome Reception and Joint IEEE-INNS Awards Ceremony
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Monday, 26 July, 2004

09.00 – 09.20 Opening Session, Welcome Addresses

IJCNN		om A	Evangelia Micheli-Tzanakou, Opening Session Chair
&	Room		Jacek M. Zurada, President, IEEE Computational Intelligence Society
FUZZ-	KUUIII		Tamás Roska, General Chair, IJCNN 2004
IEEE			László Kóczy, General Chair, FUZZ-IEEE 2004

09.20 – 11.00 Key-note Talks I.

IJCNN & FUZZ-	Room	A	09.20	Precisiated Natural Language (PNL)—Toward an Enlargement of the Role of Natural Languages in Scientific Theories Lotfi A. Zadeh
IEEE			10.10	The CNN: a Brain-like Computer Leon O. Chua

11.20 – 13.00 Key-note Talks II.

IJCNN &			11.20	Patterns, Clusters, and Components - What Data is Made of Erkki Oja
æ FUZZ- IEEE	Room	Α	12.10	Ubiquitous Computing Challenges in Recognizing and Predicting Human Activity Kenneth Fishkin

14.30 – 16.30 Parallel Sessions

	Room	Α	Self Organizing Maps	
		В	Blind Source Separation (Special Session)	
IJCNN		G	Chaos, Bifurcations and Neural Networks	
		С	Information Based Learning	
		F	Sensor Array Processing and Cellular Neural Networks	
	Room	Н	Applications (Invited). 1. Toward Intelligent Human Robot Interface 2. Control	
FUZZ-		Ι	Learning from Data (Invited Track) 1. Inductive Learning	
IEEE		D	Innovative Trends in Mathematical Models of Imprecision (Invited)	
		Е	Clustering and Image Processing 1	

17.00 – 19.00 Parallel Sessions

	Room	Α	Recurrent Neural Networks	
		Ι	Evolutionary Computing and Neural Networks	
IJCNN		В	Appl. of Blind Source Separation and Independent Comp Anal (ENNS Special Session)	
		G	Datamining	
		С	Vision and Image Processing	
	Room	F	Applications (Invited Track). 3. Information Technology	
FUZZ-		Н	Models in Learning from Data (Invited Track) 2. Rule-based systems	
IEEE		D	Imprecision Modeling with Non-Standard Logics (Invited). Fuzzy Algebra	
		Е	Interaction and Intelligence 1. (Invited)	

20.00-22.20 Special Session

IJCNN Room C Comput. Brain Science & Neuroinformatics in Asian Pacific Countries (Special Session)
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Tuesday, 27 July, 2004

IJCNN	Room	A	08.30-09.10	Challenges and Opportunities for Analog Neural Processing in the Deep SubMicron SoC Era Angel Rodriguez Vazquez
			09.10-09.50	Nanoelectronic Neuromorphic Networks (CrossNets): New Results Konstantin Likharev
FUZZ- IEEE	Room	С	09.00-09.50	Structured Learning for Partner Robots Naoyuki Kubota

08.30-09.50 Plenary Sessions

10.10-12.10 Parallel Sessions

	Room	Α	Support Vector Machines and Kernel Methods I.	
		Ι	Face Detection and Recognition	
IJCNN		B	Retinal Prosthesis Symposium Part 1	
		G	Spiking Neuron Networks	
		F	Modeling Attention & Emotion in Humans & Agents (ENNS Special Session)	
	Room	Н	Applications (Invited Track). 4. Finances, Vision, Biomedical	
FUZZ-		С	Learning from Data (Invited Track) 3. Learning from Clustering	
IEEE		Е	Soft Computing in Cyber Security (Invited). Applications	
		D	Interaction and Intelligence 2. (Invited)	

14.00-16.00 Parallel Sessions

	Room	Α	Least Squares Support Vector Machines (Special Session)	
		В	Retinal Prosthesis Symposium Part 2	
IJCNN		С	Cognitive Information Processing	
		F	Comput. Theories of Hippocampus Behavior and Intellig. (Special Session)	
		Н	attern Recognition Applications	
	Room	Е	Soft Computing in Fault Diagnosis and Prognosis (Invited)	
FUZZ-		G	Learning from Data (Invited Track) 4. Industrial Applications	
IEEE		D	Fuzzy Mathematics (Invited)	
		Ι	Fuzzy Information Retrieval	

16.00-19.00

IJCNN Room P	Plenary Poster Sessions
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16.30-17.30 Panel Sessions

IJCNN	Room	В	Retina Prosthesis Symposium part 3
FUZZ-IEEE	Room	С	Soft Computing as a Tool

17.30-19.00

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20.00-22.20 Special Session

IJCNN	Room	С	Time Series Prediction Competition (Special Session)

Wednesday, 28 July, 2004

			08.30-09.10	Implantable Diaminatia Migraelastropies for the Depleasment of
			08.30-09.10	Implantable Biomimetic Microelectronics for the Replacement of
				Hippocampal Memory Function Lost Due to Damage or Disease
IJCNN	Room	Α		Theodore Berger
			09.10-09.50	Reinforcement Learning in the Real World
				Andrew Barto
FUZZ-			09.00-09.50	Progressive Sampling Schemes for Approximate Clustering in Very
IEEE	Room	С		Large Data Sets
ILLE				James Bezdek and Richard Hathaway

08.30-09.50 Plenary Sessions

10.10-12.10 Parallel Sessions

	Room	Α	Bioinformatics	
		Ι	Neuromorphic Chips and Hardware	
IJCNN		В	Invited Session	
		G	Signal and Image Processing for Intelligent Vehicles	
		С	Reinforcement Learning & Approximate Dynamic Progr.	
	Room	Е	System Architectures and Hardware	
FUZZ-		F	Applications of Type 2 Fuzzy Logic 1 (Invited)	
IEEE		Н	Fuzzy Optimization and Design	
		D	Fuzzy-Neuro-Evolutionary Hybrids	

14.00-16.00 Parallel Sessions

	Room	Α	Neural Network Control	
		В	Applications in Diagnostics and Quality Control	
IJCNN		G	N N & Kernel Methods for Structured Domains (ENNS Special Session)	
		С	Biomedical Applications	
		F	Brain Inspired Emerging Nanoarchitectural Design and Techn. Challenges (Spec. Session)	
	Room	Е	TP Model Transformation in Non-Linear Control (Invited)	
FUZZ-		Н	Applications of Type 2 Fuzzy Logic 2 (Invited)	
IEEE		Ι	Computing with Words	
		D	Real World Applications	

16.00-19.00

IJCNN Room P	Plenary Poster Sessions
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16.30-17.30 Panel Sessions

FUZZ-IEEE	Room	С	Internet, Information Retrieval and Soft Computing
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17.30-19.00

FUZZ-IEEE Ro	coom P	Plenary Poster Sessions
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20.00-23.00 Conference Banquet

Thursday, 29 July, 2004

09.10-09.50 Plenary Sessions

IJCNN	Room	A	09.10-09.50	Artificial Neural Networks, Where Do We Go Next? Dan Hammerstrom
FUZZ- IEEE	Room	С	09.10-09.50	Taxonomy-based Soft Similarity Measures James Keller, Mihail Popescu and Joyce Mitchell

10.10-12.10 Parallel Sessions

	Room	А	Support Vector Machines and Kernel Methods II.		
		B	Noise in N N & Hippoc. Function (ENNS Combined Special Session)		
IJCNN		G	Speech Recognition		
		С	Computational Neuroscience		
		F	Digital Impl. of Neural Networks (Special Session)		
	Room	Ι	Fuzzy Control and Robotics 1		
FUZZ-		Н	Advanced Algorithms in Fuzzy Clustering (Invited) + Information Systems		
IEEE		Е	Fuzzy Logic and Mathematics		
		D	Philosophy of Soft Computing (Invited)		

14.00-16.20 Parallel Sessions

	Room	А	Robotics and Learning
		Ι	Neurodynamics
IJCNN		В	Bioinformatics and Biomedical Comp. (ENNS Special Session)
		G	Quantum Computing and Neural Networks
		С	Machine Learning for Text Mining (ENNS Special Session)
	Room	Е	Fuzzy Control and Robotics 2
FUZZ-		F	Fuzzy Modeling (Invited)
IEEE		Н	Database Mining and Decision Making
		D	Clustering and Image Processing 2

16.30-17.00 Closing Plenary Session

FUZZ- IEEE	Room C	K. Hirota
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