Program at a Glance of IEEE WCCI 2014

						110		Sunday, Ju	y 6th 2014	10012014	•						
08:00-18:20					Tuto	orials Institute of Auto				Guan Cun Fast Rd	Reijing 100190 Te	-l· 82544761)					
14:00-20:00	Tutorials, Institute of Automation, Chinese Academy of Sciences (95 Zhong Guan Cun East Rd, Beijing 100190, Tel: 82544761) Registration, BICC																
18:30-20:30	Welcome reception, Hall #1, BICC																
								Monday, Ju	ly 7th, 2014								
08:00-08:30		Congress opening ceremony, Hall #1, BICC															
08:30-09:30		Plenary lecture 1: Some Recent Work in Computational Intelligence for Software Engineering, Xin Yao, Hall #1, BICC, Chair: Derong Liu															
09:30-10:00		Coffee break: 2nd floor and 3rd floor, exhibit areas															
10:00-11:00		Plenary lecture 2: Toward Cognitive Integration of Prosthetic Devices , Jose C. Principe, Hall #1, BICC, Chair: Jennie Si Plenary lecture 3: Type-2 Fuzzy Sets and Systems: Some Questions and Answers , Jerry M. Mendel, Hall #1, BICC, Chair: Dimitar Filev															
11:00-12:00 12:00-13:30					Plenary	lecture 3: Type-2 Fuz	zy Sets and System.		Lunch, BICC	, Jerry M. Mendel	, Hall #1, BICC, Ci	hair: Dimitar Filev					
Time/Room	308	305A	305B	305C	305D	305E	303	1	201A	201B	201C	201D	203A	203B	203C	203D	Posters Areas
	Special Session: MoN1-	Special Session: MoN1-	Special Session: MoN1-				MoN1-7 Approximate		Special Session:				Special Session:				
	1 Neuromorphic Science & Technology for	2 Artificial Neural Networks and Learning	3 Computational		MoN1-5 Ensemble and	MoN1-6 Time Series	Dynamic		MoF1-1 Fuzzy	Special Session:	MoF1-3 Fuzzy	MoF1-4 Fuzzy Logic	MoE1-1	Special Session:	Special Session:	Special Session: MoE1-4 Theoretical	
13:30-15:30	Augmented Human	Techniques towards	Intelligence for Cognitive Fault	MoN1-4 Deep Learning	Meta Learning	Analysis I	Programming and Reinforcement		Decision-Making: Consensus and	MoF1-2 Lattice Computing	Control & Intelligent Systems I	and Fuzzy Set Theor	Computational Intelligence and	MoE1-2 Memetic Computing	MoE1-3 Evolutionar Computer Vision	Foundations of Bio-	
	Performance in Cybersecurity	Intelligent Transport Systems	Diagnosis				Learning		Missing Preferences		,		Games			inspired Computation	
15:30-16:00							Coffee break: 2	2nd floor and 2	3rd floor, exhibit a	eas							
		Special Session: MoN2-															15:30-18:00
	Special Session: MoN2- 1 Concept Drift, Domain		Special Session: MoN2-						Special Session: MoF2-1 Fuzzy	Special Session:	M-F2 2 Fundaine &	MoF2-4 Fuzzy Logic	Special Session:	Special Session:	Special Session: MoE2-3 Evolutionar	Special Session:	Poster session I
16:00-18:00	Adaptation & Learning	Intelligence in	3 Mind, Brain, Development and	MoN2-4 Real World Applications I	MoN2-5 Feedforward Neural Networks I	MoN2-6 Time Series Analysis II	MoN2-7 Hybrid Learning Methods		Decision-Making:	MoF2-2 Fuzzy Systems on	Adaptive Fuzzy	and Fuzzy Set Theory	Multi-Objective	MoE2-2 Differential Evolution: Past.	Computation in	MoE2-4 Artificial Be Colony Algorithms	FUZZ-IEEE (level 2)
	in Dynamic Environments I	Ecological Informatics and Environmental	Cognitive Algorithms	Applications 1	Neurai Networks i	Analysis II	Learning Methods		Consensus and Missing Preferences	Renewable Energy	Systems	П	Optimization and Decision Making	Present and Future	Combinatorial Optimization	and their Applications	TETE OF C. I.O.
	Environments 1	Modelling							Wissing Frerences				Decision Making		Optimization		
				•	•		-	Tuesday, Ju	ly 8th, 2014			•			•	·	
08:30-09:30						Plenar	y panel 1: CI-rela	ted Research	Funding , Hall #2,	BICC, Chair: Mario	s Polycarpou						
09:30-10:00									loor and 3rd floor,								
	IJCNN Invited lectu Chair: Marios Polyca		igh Deterministic Assi	gnment of Hidden Pa	rameters , Zongben Y	Ku, Hall #2A, BICC,				Fuzzy Modeling and 11 #2B, BICC, Chai				utionary Multi-Object van Deb, Hall #2C, l			
		*	d Open Problems in S	Sunarvisad Unsunarvi	sad and Painforcemen	nt I agraina				Systems for Computati				Innovative New Gan			
		ll #2A, BICC, Chair:		шрегизеа, опзиреги	sea ana Keinjorcemen	u Leurning ,								tanley, Hall #2C, BI			
12:00-13:30									Lunch, BICC					-			1
Time/Room	308	305A	305B	305C	305D	305E	303		201A	201B	201C	201D	203A	203B	203C	203D	Posters Areas
	Special Session: TuN1-1						Special Session:		Special Session:	Special Session:	Special Session:		Special Session:	Special Session:	Special Session:	Special Session: TuE1-4 Evolutionary	
13:30-15:30	International Workshop on Computational	Special Session: TuN1-2 Intelligent Vehicle	Special Session: TuN1-3 Biologically Inspired	TuN1-4 Real World	TuN1-5 Feedforward	TuN1-6 Supervised	TuF1-5 Advances to		TuF1-1 Computing	TuF1-2 Time Series:	TuF1-3 Fuzzy	TuF1-4 Approximate	TuE1-1 Evolutionary Computation for	TuE1-2 Swarm Intelligence for Real-	TuE1-3 Complex Networks and	Algorithms with	
	Energy Management in	Systems	Computational Vision	Applications II	Neural Networks II	Learning I	Type-2 Fuzzy Logic Control		with Words in Decision Making	Advanced Methods of Analysis and Forecast	Computer Vision and Biometrics	Reasoning and Theor	Planning and	World Engineering	Evolutionary	Statistical and Machine Learning	
	Smart Grids I								, and the second	-			Scheduling	Optimization	Computation	Techniques	
15:30-16:00							Coffee break: 2	2nd floor and	3rd floor, exhibit a	eas	Т				Г		
	Special Session: TuN2-1	Special Session: TuN2-2					Industrial Session:		Special Session:	Special Session:	Special Session: TuF2-3		Special Session:	Special Session:	Special Session:	Special Session: TuE2-4 Data Mining	15:30-18:00 Poster session II
16:00-18:00	International Workshop on Computational	Neural Networks	Special Session: TuN2-3	TuN2-4 Machine Learning: Complexity	TuN2-5 Feature Extraction and	TuN2-6 Supervised	TuF2-5 CI on Big		TuF2-1 Computing with Words and	TuF2-2 Applications	Computational	TuF2-4 Fuzzy Contro and Intelligent	TuE2-1 Nature-	TuE2-2 Computational	TuE2-3 Single	and Machine	IJCNN (level 3) FUZZ-IEEE (level 2)
1	Energy Management in	Applied to Vision and Robotics I	Autonomous Learning	and Optimization	Intelligent Systems	Learning II	Data and Social Networks		Fuzzy Natural	of Type-2 Fuzzy Systems	Intelligence for Human-centred	Systems II	Inspired Constrained Optimization	Intelligence in	Objective Numerical Optimization I	Learning Meet Evolutionary	IEEE CEC (level 2)
	Smart Grids II								Language Processing	-3	Applications			Bioinformatics		Computation	
18:30-20:30						Student				nd floor, Continenta	al Grand Hotel						
									July 9th, 2014								
08:30-09:30						Plenary par				ence? Hall #2, BIO	CC, Chair: Nik Pal						
09:30-10:00 10:00-11:00					DI	nary lecture 4: Deep			loor and 3rd floor,		#2 DICC Chain (7 Alii					
11:00-12:00						A Historical Perspecti		•				**	llo Coello				
12:00-13:30					richary recture 5.7	i msioricai i erspecii	ve on comparation		Lunch, BICC	s, George II. Bur	giii, Haii #2, Bicc	, chair. carios coc	по соспо				
Time/Room	308	305A	305B	305C	305D	305E	303	311A	201A	201B	201C	201D	203A	203B	203C	203D	Posters Areas
	Special Session: WeN1-														Special Session:		
	1 International	Special Session: WeN1- 2 International	Special Session: WeN1-	WeN1-4 Intelligent	WeN1-5 Unsupervised	WeN1-6 Supervised and	Industrial Session:	WeI1-1 Intel	Special Session:	Special Session:	w ri an i i	WeF1-4 Fuzzy	WeE1-1 Multi-	WeE1-2 Evolutionary	WeE1-3 Hybrid Evolutionary	Special Session:	
13:30-15:30	Workshop on Computational Energy	Workshop on Advances			Learning and Clustering	Semi-Supervised	WeN1-7 CI on Smart Grid and Energy	Special Session on Big	WeF1-1 Human	WeF1-2 Methods and Applications of Fuzzy		Pattern Recognition	Objective Evolutionary	Games and Multi-	Computational	WeE1-4 Large Scale	
	Management in Smart Grids III	in Learning from/with Multiple Learners	Computer Vision I	Applications	1	Learning	Efficiency	Data Analytics		Cognitive Maps		Image Processing	Algorithms I	Agent Systems	Methods for Comple Optimization	x Global Optimization	
	Grids III														Problems		
15:30-16:00							Coffee break: 2	2nd floor and	3rd floor, exhibit a	eas							
	Special Session: WeN2-	Special Session: WeN2-						Special Session:		Special Session:		WeF2-4 Fuzzy	Special Session: WeE2-1 Evolutionar	v Special Session:	Special Session:		15:30-18:00 Poster session III
16:00-18:00	1 Plenary and Discussion	2 Learning and Optimization in Multi-	Special Session: WeN2- 3 Machine Learning for	WeN2-4 Spiking Neural	WeN2-5 Unsupervised Learning and Clustering	WeN2-6 Dynamics of	Industrial Session: WeN2-7 CI on	WeC2-1 CIS	Special Session: WeF2-1 Human	WeF2-2 Modalities of Fuzzy Signatures in		y Decision Making and	Computation in	WeE2-2 Intelligent	WeE2-3 Single	WeE2-4 Learning	IJCNN (level 3)
. 3.00-10.00	Session of International Workshops	criteria Dynamic and	Computer Vision II	Networks I	II	Neural Systems	Control Systems	and WCCI Competition	Symbiotic Systems II	Knowledge	Systems	Decision Support Systems I	Dynamic and Uncertain	Design for Reliable Cloud Computing	Objective Numerical Optimization II	Classifier Systems	FUZZ-IEEE (level 2) IEEE CEC (level 2)
	Т	Uncertain Environments						Session		Representation		a y a como a	Environments	21.Jud Companing	a p miniation 11		
18:30-21:30							Banquet (E	Intertainment	& Award Ceremon	y), Hall #1, BICC							

							Th	nursday, Jul	y 10th, 2014								
08:30-09:30 Panel 3 (IJCNN), Brain Research, Hall #2A, BICC, Chair: Jose Principe								Panel 4 (FUZZ-IEEE), Big Data and Machine Learning , Hall #2B, BICC, Chair: Jerry Mendel				Panel 5 (IEEE CEC), Evolutionary Multi-Criterion Optimization , Hall #2C, BICC, Chair: Kalyan Deb					
09:30-10:00							Coffee	break: 2nd flo	oor and 3rd floor,	exhibit areas							I.
10:00-11:00	IJCNN Invited lect #2A, BICC, Chair: 0		dback Control for Op	eration of Complex In	dustrial Processes , T	ianyou Chai, Hall	FUZZ-IEEE Invited lecture 3: Fuzzy Dynamic Programming: A Step Towards Cognitive Dynamic Programming? Janusz Kacprzyk, Hall #2B, BICC, Chair: Faa-Jeng Lin					IEEE CEC Invited lecture 3: Jason Lohn, Hall #2C, BICC, Chair: Carlos Coello Coello					
11:00-12:00 IJCNN Invited lecture 4: The EU Human Brain Project – A Systematic Path from Data to Synthesis , Karlheinz Meier, Hall							FUZZ-IEEE Invited lecture 4: Fuzzy Real-time Leakage Supervisory System for Fluid Transportation Pipeline Networks: New Methods and Applications, Huaguang Zhang, Hall #2B, BICC, Chair: Chin-Teng Lin					IEEE CEC Invited lecture 4: Computation, the Missing Ingredient in Classical Economics , Edward Tsang, Hall #2C, BICC, Chair: Andries P. Engelbrecht					
12:00-13:30 Lunch, BICC													!				
Time/Room	308	305A	305B	305C	305D	305E	303		201A	201B	201C	201D	203A	203B	203C	203D	Posters Areas
13:30-15:30	Special Session: ThN1-1 Architectures and Theories of the Brain	Special Session: ThN1-2 Hybrid Neural Intelligent Systems		ThN1-4 Reinforcement and Hybrid Learning	ThN1-5 Models of Perception, Cognition and Coordination	ThN1-6 Recurrent Neural Networks	Industrial Session: ThE1-5 Computational Intelligence on Predictive Maintenance and Optimization		Special Session: ThF1-1 Hand Skill Recognition and Transfer	Special Session: ThF1-2 Hybridisations, Extensions, and High- Order Fuzzy Sets	ThF1-3 Fuzzy Clustering	ThF1-4 Fuzzy Systems Modelling and Identification	ThE1-1 Ant Colony Optimization	ThE1-2 Opposition- Based Learning and Differential Evolution	ThE1-3 Genetic Programming	ThE1-4 Heuristics, Metaheuristics and Hyper-heuristics I	
15:30-16:00 Coffee break; 2nd floor and 3rd floor, exhibit areas																	
16:00-18:00	Special Session: ThN2-1 Applications of Neural Networks for Financial Modeling and Forecasting	Special Session: ThN2-2 Incremental Machine Learning: Methods and Applications	Special Session: ThN2-: Neurodynamic Optimization	ThN2-4 Spiking Neural Networks II	ThN2-5 Signal and Image Processing	ThN2-6 Neural Modeling and Control	ThE2-5 Real-World Applications I		Special Session: ThF2-1 Computational Intelligence for Cognitive Robotics	Special Session: ThF2-2 Aggregation Operators	Special Session: ThF2-3 Paradigms of Fuzzy Systems for Medical Benefits	Special Session: ThF2-4 Advances to Self-tuning and Adaptive Fuzzy Control Systems	ThE2-1 Multi- Objective Evolutionary Algorithms II	ThE2-2 Cultural Algorithms and Knowledge Extraction in Evolutionary Algorithms	Special Session: ThE2-3 Single Objective Numerical Optimization III	ThE2-4 Music, Art, Creativity, Games and Multi-Agent Systems	15:30-18:00 Poster session IV IJCNN (level 3) FUZZ-IEEE (level 2) IEEE CEC (level 2)
	Friday, July 11th, 2014																
Time/Room		305A	305B	305C	305D	305E	303		201A	201B	201C	201D	203A	203B	203C	203D	
08:10-10:10	Special Session: FrN1-1 Concept Drift, Domain Adaptation & Learning in Dynamic Environments II	Special Session: FrN1-2 Neural Networks Applied to Vision and Robotics II	Special Session: FrN1-: Complex-Valued Neural Networks	FrN1-4 Visual Systems	FrN1-5 Data Analysis and Pattern Recognition	FrN1-6 Hybrid Architectures and Learning	FrE1-5 Multimodal Optimization and Population Initialization		Special Session: FrF1-1 Handling Uncertainties in Big Data by Fuzzy Systems	Special Session: FrF1-2 Evolutionary Fuzzy Systems	FrF1-3 Fuzzy Control and Intelligent Systems III	FrF1-4 Fuzzy Data Mining and Forecasting	FrE1-1 Differential Evolution	FrE1-2 Process Mining and Data Mining	FrE1-3 Estimation of Distribution Algorithms and Machine Learning	FrE1-4 Evolutionary Computation Theory and Parameter Optimization	
10:10-10:30				•			Coffee	break: 2nd flo	oor and 3rd floor,	exhibit areas		•			-		•
10:30-12:30	Special Session: FrN2-1 Computational Intelligence Algorithms for Digital Audio Applications	Special Session: FrN2-2 Intelligent Computing for Complex & Big Data Analysis in Health and Biomedical Informatics	Special Session: FrN2-: Data-Driven Adaptive Dynamic Programming	FrN2-4 Data Mining and Knowledge Discovery	FrN2-5 Large Scale, Associative and Self- Organizing Networks	FrN2-6 Self-Organizing Maps	FrE2-5 Robotics and Engineering Applications		Special Session: FrF2-1 Recent Advances in Fuzzy- Model-Based Control Design and Analysis	Special Session: FrF2-2 Software for Soft Computing I	Special Session: FrF2-3 Fuzzy Interpolation	FrF2-4 Fuzzy Decision Making and Decision Support Systems II	FrE2-1 Multi- Objective Evolutionary Algorithms III	FrE2-2 Numerical Optimization	FrE2-3 Coevolution and Collective Behavior	FrE2-4 Biometrics, Bioinformatics and Biomedical Applications	
12:30-13:30								L	unch, BICC								
13:30-15:30	Special Session: FrN3-1 Intelligent Adaptive Fault Tolerant Control and Optimization	Special Session: FrN3-2 Cognitive Computing and Neuro-Cognitive Robots	FrN3-3 Unsupervised Learning and Clustering	FrN3-4 Cognition, Bio- Inspired and Biomorphic Systems		FrN3-6 Brain-Machine Interfaces	FrE3-5 Real-World Applications II		Special Session: FrF3-1 Recent Advances in Fuzzy- Model-Based Control Design and Analysis II	Special Session: FrF3-2 Software for Soft Computing II	Special Session: FrF3-3 Theory of Type-2 Fuzzy System	Special Session: FrF3-4 Brain and Physiological s Computation for Affective Computing	FrE3-1 Large-Scale Problems and Real- World Applications	FrE3-2 Evolvable Hardware and Software and Genetic Programming	FrE3-3 Swarm Intelligence	FrE3-4 Heuristics, Metaheuristics and Hyper-Heuristics II	
15:30-16:00		•		•	•	•	Coffee	break: 2nd flo	oor and 3rd floor,	exhibit areas		•		•		•	
16:00-18:00	Special Session: FrN4-1 Computational Intelligence in Cyber Security	Special Session: FrN4-2 Computational Intelligence in Brain Computer Interface	FrN4-3 Support Vector Machines and Kernel Methods	Extraction and	FrN4-5 Machine Learning and Applications II	FrN4-6 Neuromorphic Hardware	FrE4-5 Real-World Applications III		Special Session: FrF4-1 Recent Advances in Fuzzy- Model-Based Control Design and Analysis III	Special Session: FrF4-2 New Frontiers in Clustering and its Applications -Fusion of Clustering and Other Methodologies	FrF4-3 Fuzzy Logic & Fuzzy Set Theory II	FrF4-4 Fuzzy Model	FrE4-1 Constraint- Handling and Preference-Handling	FrE4-2 Particle Swarm Optimization	Special Session: FrE4-3 Dynamic Multi-Objective Optimization	Special Session: FrE4-4 Fireworks Algorithms for Optimization	