

IEEE SMC 2017 Special Sessions

Date	Session ID			Session Title	Session Chairs
5-Oct					
8:00-11:30	S2	5PDC103m	HMS	Shared Control	Itoh, Makoto itoh.makoto.ge@u.tsukuba.ac.jp
20 min/paper			765	Comparing Shared Control Approaches for Alternative Interfaces: A Wheelchair Simulator Experiment	
				Chinemelu Ezeh*, Catherine Holloway, Pete Trautman, Tom Carlson	
			524	Individual Human Behavior Identification Using an Inverse Reinforcement Learning Method	
				Jairo Inga*, Florian Koepf, Michael Flad, Soeren Hohmann	
			572	Voice Control Design of a Mobile Robot Using Shared-Control Approach	
				Kai-Tai Song*, Chen Yao-Hsiang	
			677	Risk Predictive Haptic Guidance: Driver Assistance with One Pedal Speed Control Interface	
				yuichi Saito, Yuichi*, Pongsathorn Raksincharoensak	
			542	Cooperative Dynamic Vehicle Control Allocation Using Time-Variant Differential Games	
				Julian Ludwig*, Christoph Benedikt Gote, Michael Flad, Soeren Hohmann	
			668	Analysis of Driver Visual Attention When Driving with Different Levels of Haptic Steering Guidance	
				heng Wang*, Bo Yang, Rencheng Zheng, Tsutomu Kaizuka, Kimihiko Nakano	
			864	MPC-Based Shared Steering Control for Automated Driving Systems	
				Chunshi GUO*, Chouki Sentouh, Popieul Jean-Christophe, Jean-Baptiste HAUE	
			110	The Effects of System Functional Limitations on Driver Performance and Safety When Sharing the Steering Control During Lane-Change	
				Husam Muslim , Makoto Itoh	
9:00-11:30	S3	5KC305m	HMS	Collaborative Technologies and Applications	Shen, Weiming wshen@ieee.org
20 min/paper					Junzhou Luo, Amy Trappey
					Jano De Souza
			584	A Core Architecture for Developing Systems of Systems	

				Gregory Moro Puppi Wanderley, Marie-Hélène Abel, Jean-Paul Barthès, Emerson Cabrera Paraiso	
			611	A Cooperative Co-Evolutionary Multi-Agent System for Multi-Objective Layout Optimization of Satellite Module	
				Zihui Zhang, Xueyan Sun, Luyang Hou, Wang Chen, Yanjun Shi, Xuyang Cao	
			642	Operation Modes of Smart Factory for High-End Equipment Manufacturing in the Internet and Big Data Era	
				Feng Zhang, Min Liu, Weiming Shen	
			716	A Vertex Similarity Index Using Community Information to Improve Link Prediction Accuracy	
				Jingwei Wang, Yunlong Ma, Min Liu, Han Yuan, Weiming Shen, Ling Li	
			769	Trust Constrained Workflow Scheduling in Cloud Computing	
				Li Xiaoping, Wei Hu, Taoyong Ding, Ruben Ruiz	
			914	Automatic Detection of Waiting Times Using Smartphones	
				Luiz Felipe Silva Oliveira, Daniel Schneider, Filipe José Teixeira Oliveira, Jano De Souza, Sergio Assis Rodrigues	
			513	Smart Building Monitoring and Ongoing Commissioning: A Case Study with Four Canadian Federal Government Office Buildings	
				Weiming Shen, Hui Henry Xue, Guy Newsham, Erhan Dikel	
8:00 - 11:30	S9	5KC301m	HMS	Information Systems for Design and Marketing	Zuo, Yi zuo@coi.nagoya-u.ac.jp
20 min/paper					Katsutoshi Yada
					Hao Wang
			487	Joint RNN Model for Argument Component Boundary Detection	
			337	Leveraging Weak Segmentation for Multi-Object Tracking System	
			960	Prediction of Collaborative Relationships by Using Network Representation Learning	
			751	Solve Link-Oriented Tasks in Signed Network Via an Embedding Approach	

			741	Model Selection for Financial Statement Analysis: Comparison of Models Developed by Using Data Mining Technique	
			552	Crowdsourcing Argumentation Structures in Chinese Hotel Reviews	
13:20-17:00 20 min/paper	S4	5KC301f		Quantum computing & machine learning composed of:	
			Cyber	Topics in Quantum Machine Learning	
			Cyber	Quantum cybernetics, quantum computing and AI	
			Cyber	Topics in Quantum Machine Learning	Narayan, Apurva apurva.narayan@uwaterloo.ca
			157	Incomplete Information and Quantum Decision Trees Subhash Kak*	
			235	Advances in Quantum Reinforcement Learning Vedran Dunjko*, Jacob M. Taylor, Hans J. Briegel	
			656	Programming Quantum Annealing Computers Using Machine Learning Elizabeth Behrman*, James Steck	
			849	Robustness of Learning-Assisted Adaptive Quantum-Enhanced Metrology in the Presence of Noise Pantita Palittapongarnpim*, Peter Wittek, Barry C Sanders	
			Cyber	Quantum cybernetics, quantum computing and AI	Dong, Daoyi daoyidong@gmail.com
			615	Identifying a Damping Rate Function for a Non-Markovian Single Qubit System Shibei Xue*, Min jiang, Dewei Li, Jun Zhang, Ian R. Petersen	
			199	Asymmetric Quantum Dialogue Protocol Based on the Entanglement Swapping between Two-Qubit Bell States and Four-Qubit Cluster States Hongji Wang, Min Jiang*	
			493	Rapid Control of Two-Qubit Systems Based on Measurement Feedback Xiaqing Sun, Sen Kuang, Daoyi Dong*	
			616	A Novel DDPG Method with Prioritized Experience Replay	

				Yuenan Hou, Lifeng Liu, Qing Wei, Xudong Xu, Chunlin Chen*	
			1048	Quantum Entanglement of Autonomous Vehicles for Cyber-Physical Security	
				Farbod Khoshnoud*, Clarence de Silva, Ibrahim Esat	
13:20 - 17:00	S5	5PDC103f	Cyber	Soft Computing	Pei, Yan peiyan@u-aizu.ac.jp, peiyan@hotmail.de
20 min/paper			105	Autoencoder Using Kernel Method	
				Yan Pei	
			121	Selectively Decentralized Q-Learning	
				Thanh Nguyen, Snehasis Mukhopadhyay	
			436	Cumulative Fuzzy Class Membership Criterion Decision-Based Classifier	
				Patrik Sabo	
			870	Intelligent Hybrid Cooperative Spectrum Sensing: A Multi-Stage Decision Fusion Approach	
				Refga Elgadi, Allaa Hilal, Otman Basir	
			933	Towards Predictions of Large Dynamic Systems' Behavior Using Reduced-Order Modeling and Interval Computations	
				Leopardo Valera, Angel Garcia, Arshin Ghodiani, Martine Cohen, Horacio Flores	
			592	Predicting Volcanic Eruptions: Case Study of Rare Events in Chaotic Systems with Delay	
				Justin Faria, Olato Fuentes, Elizabeth Anthony, Vladik Kreinovich	
			602	An Artificial Bee Colony Algorithm with a Modified Choice Function for the Traveling Salesman Problem	
				Choong, Shin Siang, Wong, Li-Pei, Lim, Chee Peng	
			671	Soft Computing Approach to Detecting Discontinuities: Seismic Analysis and Beyond	
				Solymar Ayala Cortez, Aaron Velasco, Vladik Kreinovich	
			825	In System Identification, Interval (and Fuzzy) Estimates Can Lead to Much Better Accuracy Than the Traditional Statistical Ones: General Algorithm and Case Study	
				Sergey Kumkov, Vladik Kreinovich, Andrzej Pownuk	
			866	Use of Inverted Triangular Weight Vectors in Decomposition-Based Multiobjective Algorithms	
				Hisao Ishibuchi, Ryo Imada, Ken Doi, Yusuke Nojima	
13:30 - 17:00	S6	5KC305f	Cyber	Intelligent Internet Systems	Tan, Tan-Hsu thtan@ntut.edu.tw

20 min/paper					Jwo-Shiun Sun jssun@ntut.edu.tw
			134	Using K-Means Clustering to Improve the Efficiency of Ant Yen-Ching Chang*	
			102	A Contactless Charging Platform with Reconfigurable Coils Jwo-Shiun Sun*, Guan-Pu Pan, Han-Sheng Fang, Pei-Hua Jiang, Tan-Hsu Tan, Shih-Wei Tan	
			202	NTR: An Efficient Trajectory-Based Routing Protocol for the Vehicular Delay Tolerant Networks Ing-Chau Chang*, Ming-Han Hung, Ching-Ru Chang, Chin- En Yen	
			143	Using Impedance-Plethysmography Technique for Cuffless Blood Pressure Measurement Shing-Hong Liu*, Guo-He Cai, Da-Chuan Cheng, Yung-Fa Huang	
			536	Performance of Resource Allocation in Device-To-Device (D2D) Communication Systems Based on Particle Swarm Optimization Yung-Fa Huang*, Tan-Hsu Tan, Shing-Hong Liu, Yung-Fu Chen	
			292	Device-Free Non-Invasive Front-Door Event Classification Algorithm for Forget Event Detection Using Binary Sensors in the Smart House Munkhjargal Gochoo, Tan-Hsu Tan*, Fu-Rong Jean, Shih- Chia Huang, Sy-Yen Kuo	
			201	Serial Interface Engine ASIC with USB Physical Transceiver Based on FPGA Development Board Guo-Ming Sung*, Hsin-Kwang Wang, Jhih-Hao Lin	
			641	Video Action Classification Using Symmelets and Deep Learning Salah Alghyaline, Jun-Wei Hsieh*, Chi-Hung Chuang	
			212	ETMP-BGP Effective Tunnel-Based Multi-Path BGP Routing Using Software-Defined Networking Jose Luis Garcia Gomez*, Ting-Yu Wang, Ming-Hung Chen, Cheng-Fu Chou	

Date	SessionID	Special Session Title	Session Chairs
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6-Oct					
8:00 - 9:40	S7	6MBbearn	SSE	Proactive Healthcare Systems	Huang, Yo-Ping yphuang@ntut.edu.tw
20 min/paper					
			311	Predicting Purchase Intention According to Fan Page Users' Sentiment	
				Li-Jen Kao, Yo-Ping Huang*	
			519	Occlusion Handling of Visual Tracking by Fusing Multiple Visual Clues	
				Cheng-Ming Huang*, Bo-Wei Jiang	
			1022	Assistive Design for Elderly Living Ambient Using Voice and Gesture Recognition System	
				Haobijam Basanta, Yo-Ping Huang*, Tsu-Tian Lee	
			1134	A Contactless Sport Training Monitor Based on Facial Expression and Remote-PPG	
				Bing-Fei Wu, Chun-Hsien Lin*, Po-Wei Huang, Tzu-Min Lin, Meng-Liang Chung	
			1137	Monitoring and Estimating Inhalation of Particular Matter Using Personal Physiological Data	
				Yu-Hsiang Chang, Ai-Lun Yang, Yung-Sheng Lin, Yue-Shan Chang*	
8:00 - 9:40	S8	6MB251m	HMS	Shared and Cooperative Guidance and Control among humans and machines	Itoh, Makoto itoh.makoto.ge@u.tsukuba.ac.jp
15 min/paper					
			439	Shared and Cooperative Control of Ground and Air Vehicles: Introduction and General Overview	
				Frank Flemisch*	
			314	Adaptation of the Level of Automation According to the Type of Cooperative Partner	
				Lydia Habib , Marie-Pierre Pacaux-Lemoine*, Patrick Millot	
			288	Interaction Patterns for Cooperative Guidance and Control - Automation Mode Transition in Highly Automated Truck Convoys	
				Marcel Caspar Attila Baltzer*, Gina Wessel, Daniel López , Frank Flemisch	
			98	A Questionnaire for the Evaluation of Physical Assistive Devices (QUEAD) - Testing Usability and Acceptance in physical Human-Robot Interaction	

				Jonas Schmidtler*, Klaus Bengler, Fotios Dimeas, Alexandre Campeau-Lecours	
			308	Driver Compensation: Reducing the Risk of Pedestrian Collisions under Visual Field Contraction	
				Jieun Lee*, Makoto Itoh	
			709	Effects of Vehicle Behavior for Situation Awareness When Using a Driving Automation System	
				Wakana Ishida, Makoto Itoh	
8:00 - 9:40	S10	6MB159		Computational and Medical Cybernetics	Eigner, György eigner.gyorgy@nik.uni-obuda.hu
20 min/paper				composed of:	
			Cyber	Computational and Medical Cybernetics	
			Cyber	Drug Assist Devices for Personalised Healthcare	
			SSE	New Research Areas and Results in Discrete Event and Hybrid Systems	
			605	Smart Placement of Motion Sensors in a Home Environment	
				Maria Pia Fanti*, Gregory Araut, Jean-Jacques Lesage, Michele Roccotelli	
			291	Tensor Product Based Modeling of Tumor Growth	
				György Eigner*, Imre Rudas, Anikó Szakál, Levente Kovacs	
			607	Delay and Recurrent Neural Networks: Computational Cybernetics of Systems Biology?	
				Georgi Dimirovski*, Rui Wang, Bin Yang	
			657	Systems Biology Modelling of SIRS Epidemic Spread: Computational Cybernetic Issues	
				Georgi Dimirovski*, Yuanwei Jing, Dilek Tükel, Figen Ozen	
13.30-15.00	S10	6MB159		Computational and Medical Cybernetics II	
20 min/paper			510	A Joint Localization and Breathing Rate Estimation of Static Persons Using UWB Radar	
				Dusan Kocur*, Daniel Novak, Jakub Demčák	
			315	Linear Matrix Inequality Based Control of Tumor Growth	
				György Eigner*, Levente Kovacs	
			458	Modelling Blood Pressure Uncertainty for Safety Verification of Propofol Anesthesia	

				Mahdi Yousefi*, Klaske van Heusden, John Ansermino, Guy A. Dumont	
			162	Analyzing the Impact of Power Infrastructure Failures on Cloud Applications Availability	
				Élisson Rocha, Patricia Takako Endo*, Guto Santos, Juliao Braga, Theo Lynn	
8:00 - 9:40	S11	6PDC103m		Granular Computing and Computer Intelligence	Tsai, Chun-Wei Hara, Akira
20 min/paper				composed of:	
			Cyber	Granular Computing	
			Cyber	Innovative Technologies and Applications in Computer Intelligence	
			576	A Novel Clustering Algorithm Based on Searched Experiences	Tsai, Chun-Wei cwtsai@nchu.edu.tw
				Chun-Wei Tsai*, Yong-Chun Ding, Ming-Chao Chiang and Chu-Sing Yang	
			577	A Novel Clustering Algorithm for Wireless Sensor Network Based on Search Economics	
				Chun-Wei Tsai*, Zhen-An Li, Ming-Chao Chiang and Chu- Sing Yang	
			115	Intelligent Pseudo-Random Number Mapping/Coding to Enhance Optical CDMA Network Security	
				Yao-Tang Chang, Chien-Sheng Chen, Jen-Fa Huang*, Yu- Chang Chen and Kai-Sheng Chen	
			1187	Mining High Utility Partial Periodic Pattern by GPA	
				Tzung-Pei Hong*, Jen-Hao Hsu, Kung-Jiuan Yang, Guo- Cheng Lan, Jerry Chun-Wei Lin and Shyue-Liang Wang	
			610	Knowledge Extracted from Recurrent Deep Belief Network for Real Time Deterministic Control	Hara, Akira ahara@hiroshima-cu.ac.jp
				Shin Kamada, Takumi Ichimura	
Date		SessionID		Special Session Title	Session Chairs
7-Oct					

8:00 - 15:00	S12	7PDC103	HMS	Bio-Signal Processing for Movement Assessment, Neuro-Rehabilitation and Assistive Technologies	Mohammadi, Arash arash.mohammadi@concordia.ca
20 min/paper				composed of:	
			HMS	Bio-Signal Processing for Movement Assessment, Neuro-Rehabilitation and Assistive Technologies	
			HMS	Human-centred Sensing for Healthcare	
8:00 - 10:20			153	An Easy-To-Use Wearable Step Counting Device for Slow Walking Using Ankle Force Myography	
				Xianta Jiang, Kelvin Chu, and Carlo Menon	
			355	Learning and Robotic Imitation of Therapist's Motion and Force for Post-Disability Rehabilitation	
				Carlos Manuel Martinez and Mahdi Tavakoli	
			459	Ternary ECOC Classifiers Coupled with Optimized Spatio-Spectral Patterns for Multiclass Motor Imagery Classification	
				Soroosh Shahtalebi and Arash Mohammadi	
			469	Closed-Loop Control of Standing Neuroprosthesis Using PID Controller	
				Hossein Rouhani, Michael Same, Kei Masani, Ya Qi Li, and Milos R Popovic	
			477	Assistive Technology Design and Preliminary Testing of a Robot Platform Based on Movement Intention Using Low-Cost Brain Computer Interface	
				Isao Sakamaki, Camilo Ernesto Perafan del Campo, Sandra Wiebe, Mahdi Tavakoli, and Kimberley Dawn Adams	
			486	An Instrumented Wobble Board for Assessing and Training Dynamic Sitting Balance	
				Andrew Williams, Animesh Kumawat, Kshitij Agarwal, Quinn Boser, Hossein Rouhani, and Albert H. Vette	
			823	Nonlinear Workspace Mapping for Telerobotic Assistance of Upper Limb in Patients with Severe Movement Disorders	
				Carlos Rossa, Mohammad Najafi, Mahdi Tavakoli, Kimberley Dawn Adams	
13:20 - 17:00			294	A Force-Driven Granular Model for EMG Based Grasp Recognition	

				Yinfeng Fang, Dalin Zhou, Kairu Li, Zhaojie Ju, Honghai Liu	
			451	Human-Robot Interaction Based on Cognitive Bias to Increase Motivation for Daily Exercise	
				Takenori Obo, Chiaki Kasuya, Siqi Sun, Naoyuki Kubota	
			821	Activity Recognition for ASD Children Based on Joints Estimation	
				Dongxu Gao, Zhaojie Ju, Yinfeng Fang, Jiangtao Cao, Chenguang YANG, Honghai Liu	
13:20 - 17:00	S1	7MB253f	Cyber	Modern Technology on Medicine, Health Care and Human Assist	Hata, Yutaka hata@ieee.org
20 min/paper			485	Design and Integration of MPU for Human Monitoring System	
				Jun Fujiwara*, Takayuki Fujita	
			558	Comparison of Passenger Unit Movements Between Stair and Level Walkings Using Inertial Sensors	
				Yuki Azuma*, Kouki Nagamune, Ryosuke Kuroda	
			559	Comparison of Medial Proximal Femur Shape by Measurement Used Ultrasound Probe with Two Stem Models	
				Ayaka Gonda*, Kouki Nagamune, Kiyonori Mizuno	
			631	Audio-CAPTCHA with Distinction between Random Phoneme Sequences and Words Spoken by Multi-Speakers	
				Michitomo Yamaguchi*, Hiroaki Kikuchi	
			693	On Expectation of Binding Time for Ophthalmological Outpatients	
				Naotake Kamiura*, Teijiro Isokawa, Takayuki Yumoto, Tomofusa Yamauchi, Hitoshi Tabuchi	
			800	Laparoscopic Instrument Tip Position Estimation for Visual and Haptic Guidance in the Computer Assisted Surgical Trainer	
				Minsik Hong*, Kuo-Shiuan Peng, Victoria Lundine, Jerzy W. Rozenblit	
			1001	Paper Title A Study on the Motion Change under Loaded Condition Induced by Vibration Stimulation for Perception-Assist	

				Koki Honda, Kazuo Kiguchi*	
			967	Particle Filter Based Implanted Knee Kinematics Analysis for the Postoperative Evaluation	
				Authors Kento Morita*, Manabu Nii, Norikazu Ikoma, Takatoshi Morooka, Shinichi Yoshiya, Syoji Kobashi	
13:20 - 17:00	S13	7MBbearf	Cyber	Intelligent computing and controlling applications	Chou, Jen-Hsiang jhchou@ntut.edu.tw
20 min/paper					
			187	Correlation Analysis of Heart Rate Variability between PPG and ECG for Wearable Devices in Different Postures	
				Chun-Chieh Hsiao*, Fang-Wei Hsu, Ren-Guey Lee, Robert Lin	
			137	Sampled-Data Control for Polynomial Fuzzy Systems with Time-Varying Delay	
				Shun-Hung Tsai*, Kuan-Wei Ko, Chih-Yang Jen, Shih-Yu Li	
			90	Design of an Adaptive Output Recurrent Cerebellar Model Articulation Controller for Direct Torque Control System	
				Wen Bin Lin, Shun-Yuan Wang, Chwan-Lu Tseng*, Foun Yuan Liu, Jen-Hsiang Chou, Ching-Yin Lee	
			590	An Area-Restriction Based Localization Method for Wireless Sensor Networks Using a Mobile Anchor	
				Chwan-Lu Tseng*, Che-Shen Cheng, Tsang-Cheng Lin, Fu-Rong Jean, Ching-Yin Lee	
			344	A Visual Method for the Detection of Available Parking Slots	
				Chih-Ming Hsu, Jian-Yu Chen*	
			1027	Fish Pond Culture Via Fuzzy and Self-Adaptive Data Fusion Application	
				Wen-Tsai Sung*, Jui-Ho Chen, Hsiao Sung-Jung	
			626	Wearable Armband for Real Time Hand Gesture Recognition	
				Kuang-Yow Lian*, Chun-Chieh Chiu, Yong-Jie Hong, Wen-Tsai Sung	
			188	Design and Implementation of Auscultation Blood Pressure Measurement Using Vascular Transit Time and Physiological Parameters	

				Chun-Chieh Hsiao*, Joe Horng, Ren-Guey Lee, Robert Lin	
			144	Type-2 T-S Fuzzy Multiple Feedback-Loop Guaranteed Cost Controller Design for Uncertain Singular Time-Delay Systems	
				Chwan-Lu Tseng, Shun-Yuan Wang*, Fu-Rong Jean, Tung-Yu Wu, Jen-Hsiang Chou, Foun Yuan Liu	

Date		SessionID		Session Title	Session Chairs
8-Oct					
8:00 - 10:20	S14	8KC301m		Intelligent Robotic Systems	Nahavandi, Saeid saeid.nahavandi@deakin.edu.au
20 min/paper				composed of:	
			SSE	Robotics and Intelligent Sensing	
			SSE	Aerial robotics	
			SSE	Biological signals controlled intelligent robots	
			HMS	Industrial Control Systems Safety, Security and Reliability	
			208	Design Methodology for a Hexarot-Based Centrifugal High-G Simulator	
			498	Car Park Occupancy Analysis Using UAV Images	
			839	Towards a Humanoid-Oriented Movement Writing	
			777	Robust Finite-Time Stabilization of Quadrotor with Inertia Uncertainty and Disturbance	
			101	A Hybrid EEG-Based BCI for Robot Grasp Controlling	
			177	The Design of Multi-Task Simulation Manipulator Based on Motor Imagery EEG	

			837	Radiation Pattern Synthesis Using Hybrid Fourier-Woodward-Lawson-Neural Networks for Reliable MIMO Antenna Systems	
				Elies Ghayoula, Ridha Ghayoula, Jaouhar Fattahi*, Emil Pricop, Jean-Yves Chouinard, Ammar Bouallegue	
8:00 - 15:00	S15	8KC303		Intelligent Systems	Tsai, Ching-Chih Gaber, Hossam
20 min/paper				composed of:	
			SSE	Intelligent Learning in Control Systems	
			SSE	Intelligent Clean Energy, Transportation & Production Facilities	
			SSE	Intelligent Industrial Systems	
8:00 - 10:20			SSE	Intelligent Learning in Control Systems	Tsai, Ching-Chih cctsai@nchu.edu.tw
			161	An Adaptive Spatiotemporal Modeling Method for Curing Thermal Process	
			167	Best Selection for the Parameters of Fractional-Order Particle Swarm Optimizer	
			488	Stereo with Coplanar Sensor Rotation	
			618	The H∞ Design of SOS-Based Fuzzy Controller for Synchronization of Chaotic Systems	
			653	Adaptive Nonsingular Terminal Sliding-Mode Formation Control Using ORFWNN for Uncertain Networked Heterogeneous Mecanum-Wheeled Omnidirectional Robots	
13:20 - 15:00			SSE	Intelligent Clean Energy, Transportation & Production Facilities	Gaber, Hossam hossam.gaber@uoit.ca
			457	Analytics-Based Safety Monitoring and Verification	
				Hadi Hemmati*	

			744	Multilevel Programming Model for Multiple Depot Capacitated Vehicle Routing Problem with Urban Hazmat Transportation	
				Jiaoman Du, Lei Li, Xiang Li*	
			219	Estimating Gas Turbine Compressor Discharge Temperature Using Bayesian Neuro-Fuzzy Modelling	
			635	A Dynamic Model for a Cyber-Physical Healthcare Delivery System with Human Agents	
8:00 - 15:00	S16	8KC305		Decision Support Systems and Behavioral Neuroscience Modeling	Daher, Suzana suzanadaher@gmail.com
20 min/paper				composed of:	
			SSE	Decision Support Systems based on Multicriteria Models	
			SSE	Modeling and behavioral neuroscience aspects on DSS development	
8:00 - 10:20			283	Public Participation Based Interactive Decision-Making Models for Brownfield Redevelopment Projects (BRPs) Lise Geng*, Zhu Yuming, Hongli Lin, Naveed Ahmad	
			578	A Nominal Classification Method using Minimum Profiles to Classify IT Service Contractors Maisa Silva*, Ana Paula Gusmao, Thiago Poleto, Ana Paula Costa	
			1211	A multicriteria method based approach to the BPMM selection problem Eliana Sangreman Lima*, Renan Alves Viegas, Ana Paula Costa	
			1066	Multi-Criteria Model of Runway Pavement Inspection Policy Using Delay Time Modelling; Naiara Meireles de Souza*, Marcelo Hazin Alencar and Adiel Teixeira de Almeida Filho;	
			1101	A web-based procedure for student assistance program selection in Brazi Fernando Schramm*, Vanessa Schramm, Emerson Aguiar	
			527	A Value-focused consumer's perspective with multiattribute evaluation of the water distribution system of a Brazilian city - Madson Bruno da Silva Monte*, Danielle Costa Morais, Susane de Farias Gomes	

13:20 - 15:00			571	Food Supplier Selection: An application of the Additive Veto Model - Rachel Palha, Adiel Almeida	
			787	Identifying maintenance priority criteria in water distribution networks using cognitive maps - Leydiana de Sousa Pereira, Jose Silva Leao, Danielle Costa Morais	
			1197	Using psychophysiological data to investigate differences by gender and negotiation styles in e-negotiation - Jadielson Alves de Moura, Suzana Daher, Ana Paula Costa	
			1145	Individual Characteristics and Risk Perceptions: A study with a sample from Brazil - Susane de Farias Gomes*, Danielle Costa Morais, Rangaraja (Sundar) Sundarraj	
			767	Identifying Maintenance Priority Criteria in Water Distribution Networks Using Cognitive Maps - Leydiana de Sousa Pereira*, Jose Silva Filho, Danielle Costa Morais	
8:00 - 10:20	S17	8MB159m	Cyber	Machine Learning for Vision and Healthcare	Zhao, Qi qzhao@cs.umn.edu
20 min/paper			270	A Noisy Sparse Convolution Neural Network Based on Stacked Auto-Encoders	
			628	Focusness Guided Salient Object Detection	
			629	4x4 Parametric Integer Discrete Cosine Transforms	
			872	Feature Abstraction for Early Detection of Multi-Type of Dementia with Sparse Auto-Encoder	
			926	Determining Child Orientation from Overhead Video: A Multiple Kernel Learning Approach	
			937	Saliency Prediction with Scene Structural Guidance	
			943	Visual-Verbal Consistency of Image Saliency	

8:00 - 10:20	S18	8MB253m		Machine Learning and Behavior Modeling for Effective Human-Agent Interactions	Hou, Ming ming.hou@forces.gc.ca
				composed of:	
			Cyber	Machine Learning and Behavior Modeling for Effective Human-Agent Interactions CFP 326x8	
			HMS	Human Factors in Cybersecurity	
			319	An Agent-Based Software Architecture to Aid Human Operators During UAS Target Engagement	
			454	Effects of Agent Transparency and Communication Framing on Human-Agent Teaming	
			522	Evaluating Deep Reinforcement Learning for Computer Generated Forces in Ground Combat Simulation	
			601	Towards Modeling the Learning Process of Aviators Using Deep Reinforcement Learning	
			639	Machine Learning Techniques for Autonomous Agents in Military Simulations - Multum in Parvo	
			828	Characterizing Cyber Tools for Monitoring Power Grid Systems: What Information Is Available and Who Needs It?	
				Katya Le Blanc, Aditya Ashok, Lyndsey Franklin, Jean Scholtz, Eric Andersen, Michael Cassiadoro	
8:00 - 15:00	S19	8MB251		Intelligent Vehicles and Transportation	Lu, Jianbo Murai, Koji Najjaran, Homayoun
20 min/paper				composed of:	
			Cyber	Intelligent Systems and Control for Semi-autonomous and Autonomous Vehicles	
			HMS	Human Centered Transportation Systems	

8:00 - 10:20			Cyber	Intelligent Systems and Control for Semi-autonomous and Autonomous Vehicles	Lu, Jianbo jlu10@ford.com
			238	A Multiplicative Human Steering Control Model	
			666	Transition Probability Estimation in IMM-Based Evaluation of Automated Driving	
			824	A Unified Architecture for Scalable and Replicable Autonomous Shuttles in a Smart City	
			853	A Connected and Autonomous Vehicle Hardware-In-The-Loop Simulator for Developing Automated Driving Algorithms	
			HMS	Human Centered Transportation Systems	Murai, Koji murai@maritime.kobe-u.ac.jp
			595	Development of Sea Route Display System by Using Augmented Reality	
				Tadatsugi Okazaki*	
			648	Construction of Port-Coordinator Duties List for Mental Workload Assessment	
				Daiki Kamioka*, Koji Murai, Kenichi Kitamura, Shinichi Wakida	
			228	A Multiplicative Human Steering Control Model	
				Martínez-García, Miguel; Gordon, Timothy	
13:20 - 15:00			SSE	Autonomous Vehicle Technology	Najjaran, Homayoun homayoun.najjaran@ubc.ca
			604	A Study on AI-based Approaches for High-Level Decision Making in Highway Autonomous Driving	
				Laurene Claussmann*, Marc Revilloud, Sébastien Glaser, Dominique GRUYER	
			1141	Analysis of Driving Data for Autonomous Vehicle Applications	
				Marie O'Brien, Kai Neubauer, Jessica Van Brummelen, Homayoun Najjaran*	
			945	A Hexagonal Grid-Based Sampling Planner for Aquatic Environmental Monitoring Using Unmanned Surface Vehicles	
				Teng Li*, Min Xia, Jiahong Chen, SHUJUN GAO, Clarence de Silva	

8:00 - 15:00	S20	8PDC103		Human Machine Interfaces, and Haptics	Nahavandi, Saeid saeid.nahavandi@deakin.edu.au
				composed of:	
			SSE	Human Machine Interfaces, and Haptics	
			HMS	Interactive and Wearable Computing and Devices	
8:00 - 10:20			SSE	Human Machine Interfaces, and Haptics	
			140	Simulating Eye-Head Coordination During Smooth Pursuit Using an Ocular Biomechanic Model	
			533	A Novel Framework for Visuo-Haptic Percutaneous Therapy Simulation Based on Patient-Specific Clinical Trials	
			674	Early Intent Prediction of Vulnerable Road Users from Visual Attributes Using Multi-Task Learning Network	
			680	Surgical Tool Segmentation Using a Hybrid Deep CNN-RNN Auto Encoder-Decoder	
			931	Vocal Human-Robot Interaction Inspired by Battle Management Language	
13:20 - 15:00			128	Study on the Attitude of Equestrian Sport Based on Body Sensor Network	
			553	Activity Recognition of Wheelchair Users Based on Sequence Feature in Time-Series	
			826	Detecting Finger Gestures with a Wrist Worn Piezoelectric Sensor Array	
8:00 - 10:20	S21	8KC203m	SSE	Distributed Adaptive Systems	Zhu, Haibin haibinz@nipissingu.ca
20 min /paper					
			654	A Cooperative Quantum Particle Swarm Optimization Based on Multiple Groups	
				WenJie Liu, Hongbin Dong , Jun He, Hongbo Shi	
			170	Group Role Assignment with Agents' Busyness Degrees	

				Haibin Zhu	
			301	Resource Allocation Policy Based on Trust in the Multi-Cloud Environment	
				Jie Yang, Haibin Zhu, Xianjun Zhu, Yi liu, Linyuan Liu , TieQiao Liu	
			550	A Hierarchical Theory of System Topology and Distributed Functional Fusions	
				Yingxu Wang	
			897	Modeling Participation Behavior in Repeated Task Allocations with Fuzzy Connectives	
				Qing Chuan Ye, Yingqian Zhang, Uzay Kaymak	
			962	GScheduler: Optimizing Resource Provision by Using GPU Usage Pattern Extraction in Cloud Environments	
				Zhuqing Xu, Fang Dong, Jiahui Jin, Junzhou Luo, Jun Shen	
13:20 - 15:00	S22	8KC301f		Conflict Resolution	Hipel, Keith kwhipel@uwaterloo.ca
20 min/paper				composed of:	
			SSE	Conflict Resolution: Session One	
			SSE	Conflict Resolution: Session Two	
			284	Fuzzy Strength of Preference in the Graph Model for Conflict Resolution with Two Decision-Makers	
				Jing Yu, Keith Hipel, Marc Kilgour, Liping Fang	
			763	Two-Country Computable Equilibrium Model of International Drought Risk Sharing: The Case of Pakistan and the Philippines	
				H. Ishiwata, M. Yokomatsu, M.A.I.H. Elagaty, T. Koike, Y. Sawada, P.A. Jaranilla-Sanchez, Y. Suzuki	
			329	The Conflict Over the Asian Infrastructure Investment Bank Involving China, USA, and Japan	
				Taha Alhindi, Keith Hipel, Marc Kilgour	
			330	Conflict Analysis on the Fourth Party Logistics Development	
				Hanbin Kuang, Min Huang, Keith Hipel, Marc Kilgour	
			899	A Task-Oriented Approach to Select Experts for Aerospace Cops Projects	

				Jing Zhao, Peng Guo, Yuming Zhu, Liantian Jing	
			910	Arms Race Analysis Using Capability-Based Graph Model for Conflict Resolution	
				Hanlin You, Mengjun Li, Fangzhou Chen, Jiang Jiang, Bingfeng Ge, Jianguo Xu	
8:00 - 15:00	S23	8KC205		Secured Driving and Cyber-Enabled Technologies	Mammar, Said Zhao, Wenbing
20 min/paper				composed of:	
			SSE	Sensing, Monitoring and Decision Making for Secured Driving in all Environments	
			Cyber	Cybermatics for Cyber-Enabled Systems, Technologies, and Applications (Cyber-ESTA)	
8:00 - 10:20			SSE	Sensing, Monitoring and Decision Making for Secured Driving in all Environments	Mammar, Said said.mammar@univ-evry.fr
			836	Mutiple-Gradient Descent Algorithm for Parametric Identification of a Powered Two-Wheeled Vehicles	
				Majda Amina Aida Fouka, Lamri Nehaoua, Hichem Arioui, Said Mammar	
			697	Rider Weight Consideration for Observer Design with an Application to the Estimation of the Lateral Motorcycle Dynamics and Rider's Action	
				Pierre-Marie Damon, Dalil Ichalal, Lamri Nehaoua, Hichem Arioui, Said Mammar	
			757	Cascaded Flatness-Based Observation Approach for Lateral Motorcycle Dynamics Estimation	
				Pierre-Marie Damon, Dalil Ichalal, Hichem Arioui, Said Mammar	
			838	Robust Estimation of Vehicle Lateral Velocity and Yaw Rate Using Switched T-S Fuzzy Interval Observers	
				Sara Ifqir, Naïma Ait Oufroukh, Dalil Ichalal, Said Mammar	
13:20 - 15:00			Cyber	Cybermatics for Cyber-Enabled Systems, Technologies, and Applications (Cyber-ESTA)	Zhao, Wenbing wenbing@ieee.org
			551	Movie Quality Evaluation Using Real-Time Human Electroencephalogram	

				Qing Wu,, Wenbing Zhao, Himanshu Sharma,, Tie Qiu	
			1030	Enhancing Body Mechanics Training for Bedside Care Activities with a Kinect-Based System	
				Wenbing Zhao, Qing Wu, Ann Reinthal, Deborah Espy, Xiong Luo, Tie Qiu	
			1075	EEG Analysis Reveals Reduced Seizure Activity by Optogenetic Inhibition of GABAergic Interneurons	
				Qing Wu, Ben Foote-Huth, Stephan Steidl, Hui Ye, Wenbing Zhao	
			1078	A Privacy-Aware Compliance Tracking System for Skilled Nursing Facilities	
				Wenbing Zhao, Qing Wu, V. Padaraju, M. Bbela, Ann Reinthal, Deborah Espy, Xiong Luo, Tie Qiu	
13:20 - 15:00	S24	8KC203f		Internet of Things and VR Systems	Hu, Yaoping huy@ucalgary.ca
				composed of:	
			SSE	Collaborative Wireless Sensor Networks and Internet of Things (CWSN&IoT)	
			SSE	Intelligent Internet of Things	
			HMS	Virtual and Augmented Reality Systems	
			575	Distributed TSCH Scheduling: A Comparative Analysis	
			893	Real-Time Data Management in Ubiquitous Wearable Networks	
			138	Beyond the Next 700 IoT Platforms	
			154	Data and Control Points: A Programming Model for Resource-Constrained IoT Cloud Edge Devices	
			507	Vibrotactile Cues on Multiuser Collaboration within Virtual Environments	
				Aida Erfanian, Yaoping Hu	
			868	Towards a Virtual Environment for Interactive Analysis of Cluster-Based Flow Pattern Abstraction	

				Suryatapa Roy, Yaoping Hu, Robert J. Martinuzzi, Chris Morton	
13:20 - 15:00	S25	8KC201f		Grey System Theory and Applications	Liu, Si-Feng sfliu@nuaa.edu.cn
				composed of:	
			SSE	Grey System Theory and Applications	
			SSE	Design Challenges of Cyber Physical Systems	
			404	Integrating Triangular Fuzzy Numbers & Grey Relational Theory to Evaluate Brownfield Redevelopment Projects	
			407	Surface Vibration Displacement Prediction Based on a Non-Equidistant Grey Model	
			690	University Internal Governance Effect Evaluation Based on Grey Fuzzy Comprehensive Assessment Method	
			424	A New Rate Adjustment Algorithm for Traffic Admissions in Smart Grid Communications	