

Special session name		Chair / Co-Chair
<b>Computational Collective Intelligence</b>		Date/Time: October 10 Monday / 17.00-18.30
Paper ID	Paper Title	
#1897	Local and Global Consensus in Asynchronous Group Communications	
#1927	A Method for Ontology based User Profile Adaptation in Personalized Document Retrieval Systems	
#2353	Academic event recommendation based on similarity research and exploring interaction of authors	
#2453	Bisimilarity for Paraconsistent Description Logics	
#2499	An Approach to Machine Classification Based on Stacked Generalization and Instance Selection	
<b>Granular Computing (I)</b>		Date/Time: October 10 Monday / 13.30-15.00
Paper ID	Paper Title	Chun-Wei Tsai / Shusaku Tsumoto
#1212	Ant Colony Optimization Solutions for Logistic Route Planning with Pick-up and Delivery	
#1368	WUN-MINER: A NEW METHOD FOR MINING FREQUENT WEIGHTED UTILITY ITEMSETS	
#1453	A Competitive QUasi-Affine TRansformation Evolutionary (C-QUATRE) Algorithm for Global Optimization	
#1456	Application of Granular Computing and Three-way decisions to Analysis of Competing Hypotheses	
#1521	Parallel Coral Reef Algorithm for Solving JSP on Spark	
<b>Granular Computing (II)</b>		Date/Time: October 10 Monday / 15.30-17.00
Paper ID	Paper Title	Tan-Hsu Tan / Tzung-Pei Hong
#1738	Communication Scheduling Scheme Based on Big-Data Regression Analysis and Genetic Algorithm for Cyber-Physical Factory Automation	
#1900	Efficient Mining of Short Periodic High-Utility Itemsets	
#2138	A Novel method for stock prediction by using relationship between various stock prices fluctuation	
#2395	Construction of Linguistic Variables in Information Table based on Rule Induction and Concept Hierarchy	
#1113	DSS: A biclustering method to identify diverse and state specific gene modules in gene expression data	
<b>Intelligent Internet Systems (I)</b>		Date/Time: October 10 Monday / 13.30-15.00
Paper ID	Paper Title	Tan-Hsu Tan / Shyi-Ming Chen
#1371	Fuzzy-Based Indoor Zone Positioning System in Wireless Sensor Networks	
#1599	Action Classification Using Data Mining and Paris of SURF-Based Trajectories	
#1669	A Compact Self-Decoupling Dual Band MIMO Antenna	
#1703	Design of a secure medical data sharing system via an authorized mechanism	
#1875	Selecting the Best Model of Particle Swarm Optimization Based on the Previous Performance	
<b>Intelligent Internet Systems (II)</b>		Date/Time: October 10 Monday / 15.30-17.00
Paper ID	Paper Title	Yung-Fa Huang / Shyi-Ming Chen
#1913	On Design of A Dynamic Carpooling System Based on Vehicle Information Shared Through the VANET	
#1917	Optical Transceiver with Deficit Round Robin and RS232 Interface for Synchronous Optical Networking	
#1940	SmartCam to see through darkness	
#2012	Research on Affinity Propagation Algorithm Based on Common Neighborhood	
#2029	Performance of Frequency Resource Assignment Schemes for Cognitive Radio Based Cooperative Communication Systems	
<b>Soft Computing (I)</b>		Date/Time: October 12 Wednesday / 11.00-12.30
Paper ID	Paper Title	Hideyuki Takagi / Yan Pei
#1082	Principal Component Selection of Machine Learning Algorithms Based on Orthogonal Transformation by Using Interactive Evolutionary Computation	
#1112	Improving Gene Expression Programming using Diversity Preservation Tournament and Its Application in Grid Cell Modeling	
#1229	Sliding Mode Control for State Delayed Systems subject to Persistent Disturbance	
#1348	DBM vs ELM: A Study on Effective Training of Compact MLP	
#1377	Electricity Load Demand Time Series Forecasting with Empirical Mode Decomposition based Random Vector Functional Link Network	
<b>Soft Computing (II)</b>		Date/Time: October 12 Wednesday / 14.00-15.30
Paper ID	Paper Title	Hideyuki Takagi / Yan Pei
#1564	Improvement of MF-ARTMAP Classification Accuracy Using Simulated Annealing	
#1707	How to Transform Partial Order Between Degrees into Numerical Values	
#1714	Fuzzy-Inspired Hierarchical Version of the von Neumann-Morgenstern Solutions as a Natural Way to Resolve Collaboration-Related Conflicts	
#1727	Advanced Fuzzy Possibilistic C-means Clustering Based on Granular Computing	
#1877	The Imaginary Particle Swarm Optimizer for Dynamic Maximum Power Point Tracking	
<b>Soft Computing (III)</b>		Date/Time: October 12 Wednesday / 16.00-17.30
Paper ID	Paper Title	Hideyuki Takagi / Yan Pei
#1991	EigenAnt assisted IACOR for continuous global optimization	
#2411	Multi-objective Neuro-evolution: Should the Main Reproduction Mechanism be Crossover or Mutation?	
#1469	Particle Swarm Optimization applied to Relational Data Clustering	
#2292	Image-based Nutrition Composition Analysis with a Local Orientation Descriptor	
#1587	A Novel Particle Swarm Optimization Algorithm for Non-Separable and Ill-Conditioned Problems	
<b>Human Centered Transportation Systems (I)</b>		Date/Time: October 10 Monday / 15.30-17.00
Paper ID	Paper Title	Koji MURAI / Tadatsugi Okazaki
#1200	Study on Relation between Operator and Trainee's Mental Workload for Ship Maneuvering Simulator Exercise Using Heart Rate Variability	
#1231	Evaluation of Mixed Culture Bridge Teammates' Mental Workload Using Heart Rate Variability: Simulator-based Ship Handling	
#1240	Development of actual ship experiment system for developing automatic pier docking system	
#1400	Operation Support System for Water Transit Service	
#1049	Model construction and authentication algorithm of virtual keystroke dynamics for smart phone users	
<b>Human Centered Transportation Systems (II)</b>		Date/Time: October 12 Wednesday / 17.30-19.00
Paper ID	Paper Title	Koji MURAI / Tadatsugi Okazaki
#1545	Embedding Explicit Representation of Cyber-Physical Elements in Task Models	
#1611	Operational assistance system for obstacle collision avoidance and load sway suppression in overhead traveling crane	
#2268	Providing safe and affordable transportation service for female passengers: A case study on college girls in rural Bangladesh	
#2383	Navigation in Human-Robot and Robot-Robot Interaction using Optimization Methods	
#1104	How many drivers does it take to spot an OpenSpot?	
<b>Interactive and Wearable Computing and Devices</b>		Date/Time: October 10 Monday / 15.30-17.00
Paper ID	Paper Title	Giancarlo Fortino
#1174	CanoeSense: Monitoring Canoe Sprint Motion using Wearable Body Sensor Networks	
#2336	A Comparison of Wearable and Stationary Sensors for Stress Detection	
#1268	A Sensor to Acquire the Relative Movement between Residual Limb and Prosthetic Socket	
#2100	Collaborative Classification for Daily Activity Recognition with a Smartwatch	
#1117	Object-alignment performance in a head-mounted display versus a monitor	
<b>Collaborative Wireless Sensor Networks and Internet of Things</b>		Date/Time: October 10 Monday / 17.00-18.30
Paper ID	Paper Title	Giancarlo Fortino / Weiming Shen
#1997	Edge enabled development of Smart Cyber-Physical Environments	
#2020	Mitigating Sensor Differences for Phone-based Human Activity Recognition	
#2123	Big IoT data mining for real-time energy disaggregation in buildings	
#2373	Design and Implementation of a Gateway for Pervasive Smart Environments	
#1996	An Embedding Approach for Context-Aware Collaborative Recommendation and Visualization	
<b>Shared Control (I)</b>		Date/Time: October 11 Tuesday / 09.30-11.00
Paper ID	Paper Title	Makoto Itoh / Tricia Gibo
#1062	A Trouble Shared Is a Trouble Halved ?? Usability Measures for Human-Robot Collaboration	
#1154	Driving with Shared Control: How Support System Performance Impacts Safety	
#1183	A Shared Control in Risk Predictive Braking Manoeuvre for Preventing Collision with Pedestrian	
#1283	Towards adaptability of levels of automation with Human-Machine cooperation approach	
#1600	Evaluation of Haptic Support System for Training Purposes in a Tracking Task	
<b>Shared Control (II)</b>		Date/Time: October 11 Tuesday / 11.00-12.30
Paper ID	Paper Title	Erwin R. Boer / Makoto Itoh
#1715	Driver's trust in automated driving when sharing of spatial awareness	
#1757	Authority Transfer Method from Automated to Manual Driving via Haptic Shared Control	
#1932	Using Learning from Demonstration to Generate Real-time Guidance for Haptic Shared Control	
#1983	A Multiple-Input Single-Output Model for Human Force Perception in Pedaling	
#2130	Shared automation of lane change for avoiding forward obstacle	
<b>Conflict Resolution (I)</b>		Date/Time: October 12 Wednesday / 16.00-17.30
Paper ID	Paper Title	Liping Fang / Keith W. Hipel
#1081	An efficiency-adjusted fair mechanism for house allocation problem with existing tenants	
#1092	Misperception in Nationalization of the Suez Canal	
#1473	Belief Preference in Graph Model for Conflict Resolution with Two Decision-Makers	
#1479	Automated Extraction of a Game Model using Natural Language Processing: National Strategies of the Asian Infrastructure Investment Bank	
#1565	Trade and Disaster Risk Sharing in Open Economy Model	
<b>Conflict Resolution (II)</b>		Date/Time: October 12 Wednesday / 17.30-19.00
Paper ID	Paper Title	Keith W. Hipel / Liping Fang
#1690	Analyzing the Financing Dilemma of Brownfield Remediation in China by using GMCR	
#2010	Evaluation on the Innovative Capacity of Provincial High-tech Industries in China based on Integrated Theil and TOPSIS	

#2053 Composition and Stability Concepts in the Graph Model for Conflict Resolution  
#2263 Empirical Analysis of the Reference Point Effect in Residential Choices under the Risk of Slope Disasters  
#2074 Multi Agent-Learner based Online Feature Selection System

#### Intelligent Learning in Control Systems (I)

Date/Time: October 11 Tuesday / 09.30-11.00

Paper ID	Paper Title	Ching-Chih Tsai / Kao-Shing Hwang
#1118	Implementation of Odometry with EKF for Localization of Hector SLAM Method	
#1143	Intelligent Sliding-Mode Formation Control for Uncertain Networked Heterogeneous Mecanum-Wheeled Omnidirectional Platforms	
#1356	Maximum Power Point Tracking of Photovoltaic Generation Systems under Partial Shaded Conditions	
#1412	A Bayesian Network Based Method for Activity Prediction in a Smart Home System	
#1696	3-D Model Reconstruction from C-arm Images	

#### Intelligent Learning in Control Systems (II)

Date/Time: October 11 Tuesday / 11.00-12.30

Paper ID	Paper Title	Kao-Shing Hwang / Ching-Chih Tsai
#1902	PSO and Neural Network based Intelligent Posture Calibration Method for Robot Arm	
#1809	Hierarchical Data-Driven Model-Free Iterative Learning Control Using Primitives	
#1966	Trend Classification Based Weather Forecast	
#2445	Two Meta-heuristics to Solve a Coordinated Air Transportation and Production Scheduling Problem with Time Windows for the Due Date	
#1163	Tracking of A Random Target by Circular Pattern of Mobile Agents With A Leader	

#### Logistics Informatics and Knowledge Acquisition in Intelligent

Date/Time: October 12 Wednesday / 17.30-19.00

Paper ID	Paper Title	Menggang Li / Martin Dresner
#2104	An Efficient and Effective Method to Find Uninteresting Items for Accurate Collaborative Filtering	
#2245	Collaborative Image Triage with Humans and Computer Vision	
#1899	Numerical Analysis of the Transportation Efficiency in a Network Considering Route Choice	
#1258	Trajectory Optimization with Memetic Algorithms: Time-to-Torque Minimization of Turbocharged Engines	
#1153	Identification of Nonlinear Systems with Kernel Methods	

#### Medical Mechatronics (I)

Date/Time: October 10 Monday / 13.30-15.00

Paper ID	Paper Title	Chung-Hsien Kuo / Yi-Hung Liu
#1408	Joint Angle Estimation using the Distribution of the Muscle Bulge on the Forearm Skin Surface of an Upper Limb Amputee	
#1518	Integration of Visual Feedback System and Motor Current Based Gait Rehabilitation Robot for Motor Recovery	
#1594	The Use of Deep Learning and Mean Shift to Learn Global and Local Processing in Human Visual Perception	
#1807	Decoupled PID Control with Gain Adaptation for a Cycling Dynamic Knee Rig	
#1810	Adaptive Sliding Mode Control of a Lower-limb Exoskeleton Rehabilitation Robot	

#### Medical Mechatronics (II)

Date/Time: October 10 Monday / 15.30-17.00

Paper ID	Paper Title	Ming-Yih Lee / Yi-Hung Liu
#2030	An Accelerometer-based Festinating Gait Detection Algorithm and Its Application to Parkinson? Disease Development	
#1695	Relation between Magnitude of Applied Torque during Pre-Swing Phase and Toe Clearance Change to Prevent Trip of Elderly People	
#1053	A Medication Adherence Monitoring System for People with Dementia	
#1652	Cognitive Workload in Conventional Direct Control vs. Pattern Recognition Control of an Upper-limb Prosthesis	

#### Intelligent Media and New-Generation Software

Date/Time: October 12 Wednesday / 17.30-19.00

Paper ID	Paper Title	Masahito Kurihara
#1151	A Study on an Emotion Estimation of Narratives Using Cognitive Appraisals of the Reader	
#1222	The Effect of Education and Learning Using Note-Taking Application	
#1260	Discovering Inductive Theorems Using Rewriting Induction	
#1436	Distance Based Multiple Swarms Formation Method in Particle Swarm Optimization	
#2273	System for Game Enhancement using Scene Recognition in Emulated Consoles	

#### Distributed Adaptive Systems

Date/Time: October 12 Wednesday / 11.00-12.30

Paper ID	Paper Title	Haibin Zhu / Weiming Shen
#1265	A Visualization Tool for Adaptive Collaboration	
#1562	Evolutionary Strategies for Novelty-Based Online Neuroevolution in Swarm Robotics	
#1832	An Evaluation Method for Self-Adaptive Systems	
#1920	Group Role Assignment Based on Multi-Criteria in Collaboration System	
#2216	Adaptive Workload Distribution for Local and Remote Clouds	

#### Distributed Adaptive Systems and Biometric systems

Date/Time: October 12 Wednesday / 14.00-15.30

Paper ID	Paper Title	Weiming Shen / Haibin Zhu
#2470	Simulating Tolerance: A Collective Behavior Observed in Dynamic Social Networks	
#1484	Applications of the Viable System Model in Automotive and Battery Storage Systems	
#1853	Part-Based Representation and Classification for Face Recognition	
#2103	Smartphone Enabled Person Authentication Based on Ear Biometrics and Arm Gesture	
#2328	GRiD: Gathering Rich Data from PubMed using One-class SVM	

#### Discrete Event and Hybrid Systems

Date/Time: October 11 Tuesday / 09.30-11.00

Paper ID	Paper Title	Maria Pia Fanti / MengChu Zhou
#1109	Analysis and Control of Wafer Delays in a Dual-armed Cluster Tools for a K-Cyclic Schedule	
#1717	Place Invariant Simplification in Optimal Supervisor Synthesis for FMS	
#1871	Modeling Cyber Attacks by Stochastic Games and Timed Petri Nets	
#1304	A Petri Net Based Methodology for Modelling, Analysis, Demand Forecast and Optimal Planning of Batch Production Systems	
#1157	A hybrid knowledge-based framework for author name disambiguation	

#### Grey System Theory and Application (I)

Date/Time: October 12 Wednesday / 14.00-15.30

Paper ID	Paper Title	Sifeng Liu / Yingjie Yang
#1034	A new decision model to solve the clustering dilemma	
#1067	The model TMGM(1,N) based on the development trend of multiple driving variables and its application	
#1203	The Application of Grey-Incidence Decision Making In the Analysis of Brownfield Redevelopment Project	
#1269	Universities-industry collaboration (UIC) partner selection based on Grey Fuzzy Evaluation	
#1563	Rough approximation model based on grey dominance relation	

#### Grey System Theory and Application (II)

Date/Time: October 12 Wednesday / 16.00-17.30

Paper ID	Paper Title	Naiming Xie / Sifeng Liu
#1783	A novel grey nearness incidence model for visual inspection on composite materials subjected to low-velocity impact damage	
#1881	A Study on the Assessment of Power System Security Risk based on Grey Clustering and Maximum Entropy Theory	
#1480	An Improved Prediction Model for Interval Grey Number	
#2457	An Evolutionary Optimization based Interval Type-2 Fuzzy Classification System for Human Behaviour Recognition and Summarisation	
#2129	Spatial Collaborative Representation for Image Categorization	

#### Grey System Theory and Application (III)

Date/Time: October 12 Wednesday / 17.30-19.00

Paper ID	Paper Title	Yingjie Yang / Sifeng Liu
#2406	R-Fuzzy Sets and Grey System Theory	
#1108	A Study on the Equilibrium of Regional Industrial Spatial Distribution based on Grey Prediction Model	
#1036	Surface Vibration Displacement Prediction based on a Non-equidistant Grey Model	
#1443	Study on Spatial Correlation Mechanism of Industries between Different Major Functional Areas Based on Grey Target Theory	
#1475	Fuzzy Zoning: A Lagrangean Relaxation Approach	

#### Matrix Analysis and Feature Learning for Multimedia Understanding (I)

Date/Time: October 10 Monday / 17.00-18.30

Paper ID	Paper Title	Xinmei Tian / Jun Yu
#1115	Data-driven Facial Animation via Hypergraph Learning	
#1292	Distributed Graph Regularized Non-negative Matrix Factorization with Greedy Coordinate Descent	
#1401	Photo Aesthetic Quality Assessment via Label Distribution Learning	
#1560	Multi-Organ Plant Identification With Multi-Column Deep Convolutional Neural Networks	
#2468	Class Specific Dictionary Learning based Kernel Collaborative Representation for Fine-grained Image Classification	

#### Matrix Analysis and Feature Learning for Multimedia Understanding (II)

Date/Time: October 11 Tuesday / 14.00-15.30

Paper ID	Paper Title	Weifeng Liu / Yicong Zhou
#2135	Configurable Privacy Management for Secure Video Surveillance in Energy-constrained Systems	
#1693	A Three Level Adaptive Video Streaming Framework Over LTE	
#1579	Personalizing Information Retrieval: a New Model for User Preferences Elicitation	
#1942	Camera-based document image spotting system for complex linguistic maps	
#1369	Optimized Per-Joint Compression of Hand Motion Data	

#### Computational Awareness (I)

Date/Time: October 11 Tuesday / 09.30-11.00

Paper ID	Paper Title	Tadahiko Murata/ Goutam Chakraborty
#1216	Time series processing at the age of big data: any change of paradigm?	
#1349	Brain Source Separation for Motor Imagery Classification Using Tensor Decomposition	
#1358	Guide Data Generation for On-Line Learning of DBM-Initialized MLP	
#1362	Location Awareness Based on Infrared Sensor Array	
#1632	Measuring computational awareness in contextual neural networks	

#### Computational Awareness (II)

Date/Time: October 11 Tuesday / 11.00-12.30

Paper ID	Paper Title	Incheon Paik / Zhenni Li
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#2018 Analysis of Data Distribution to Classify Data Based on Taxonomy Hierarchy  
 #2019 An efficient algorithm for incoherent analysis dictionary learning based on proximal operator  
 #2037 Modified SA-based Household Reconstruction from Statistics for Agent-Based Social Simulations  
 #2045 Automatic Detection of Driver's Awareness with Cognitive Task from Driving Behavior  
 #2069 Incorporating Awareness in Expert Systems - Learning from Expert's Selective Attention and Perception

**Computational Awareness (III)**

Date/Time: October 11 Tuesday / 14.00-15.30

Paper ID	Paper Title	Author
#2260	Modeling Learning and Strategy Formation as Phase Transitions in Cortical Networks	Robert Kozma / Tadahiko Murata
#1733	Music Emotion Recognition using Chord Progressions	
#1734	Automated Music Video Generation Using Emotion Synchronization	
#1576	Applying connectivism? Does the connectivity of concepts make a difference for learning and assessment?	
#2396	A Pareto Optimal Solution Visualization Method using SOM-NG with Learning Parameter Optimization	

**Cybermatics for Cyber-enabled Worlds (I)**

Date/Time: October 10 Monday / 13.30-15.00

Paper ID	Paper Title	Author
#1071	A Kinect-Based System for Promoting Healthier Living at Home	Jianhua Ma / Huansheng Ning
#1184	A State-Prediction-based Control Strategy for UAVs in Cyber-Physical Systems	
#1185	Workflow Fragments of Layer Hierarchy Detection and Recommendation	
#1343	Growth Scheduling and Processing in Cyber-I Modeling	
#1427	STLF: Spatial-Temporal-Logical knowledge representation and object mapping Framework	

**Cybermatics for Cyber-enabled Worlds (II)**

Date/Time: October 11 Tuesday / 14.00-15.30

Paper ID	Paper Title	Author
#1540	Distributed Embedded Deep Learning based Real-time Video Processing	Julien Bourgeois / Wenbing Zhao
#1849	The Design and Implementation of a Kinect-Based Framework for Selective Human Activity Tracking	
#1867	Programmable matter as a cyber-physical conjugation	
#1396	Active Bayesian Observer Correcting Overconfidence Effects Due to E-type Confirmatory Bias	
#2472	The Evolution of Ethnic Cultural Industry Towards a Cyberspace: A Perspective of Generalized Ecosystem	

**Better Artificial Intelligence Methods for Bigger Data Mining (I)**

Date/Time: October 12 Wednesday / 11.00-12.30

Paper ID	Paper Title	Author
#1959	A Novel Approach to Generating an Interval Type-2 Fuzzy Neural Network Based on a Well-Behaving Type-1 Fuzzy TSK System	Huseyin Seker / Kit Yan Chan
#1753	Spreading Fuzzy Random Forests with MapReduce	
#1955	Genetic-Fuzzy Mining with MapReduce	
#1968	An Instance Selection Framework for Mining Data Streams to Predict Antibody-Feature Function Relationships on RV144 HIV Vaccine Recipients	
#2126	A Supervised Feature Selection Framework in relation to Prediction of Antibody Feature-Function Activity Relationships in RV144 Vaccines	

**Better Artificial Intelligence Methods for Bigger Data Mining (II)**

Date/Time: October 12 Wednesday / 14.00-15.30

Paper ID	Paper Title	Author
#2150	prediction of splice site using AdaBoost with a new sequence encoding approach	Tzung-Pei Hong / Mehmet Emin Aydin
#1170	A Proposal of Hierarchical Vertex Clustering Based on the Gosper Curve	
#1458	Dimensionality Reduction-Based Diagnosis of Bearing Defects in Induction Motors	
#1631	Topological Analysis of Ancient Glyphs	
#1533	Associative Search through Formal Concept Analysis in Criminal Intelligence Analysis	

**Machine Learning with Big Data**

Date/Time: October 12 Wednesday / 14.00-15.30

Paper ID	Paper Title	Author
#1767	Deep Neural Networks with Pseudoinverse Learning Algorithm and its Application to Astronomical Spectral Data	Xizhao Wang / Wing Ng / Ping Guo
#1865	An Approach to Sample Selection from Big Data for Classification	
#1644	HMSNN: Hippocampus inspired Memory Spiking Neural Network	
#2288	Approach to Integrate Episodic Memory into Cogency-based Behavior Planner for Robots	
#2085	Cogent Confabulation-based Hierarchical Behavior Planner for Task Performance	

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**Innovative Computational Intelligence, Learning Representation of Data, and Industrial Applications**

Date/Time: October 11 Tuesday / 14.00-15.30

Paper ID	Paper Title	Author
#1365	Particle Swarm Optimization Using Clustering	Takumi Ichimura / Akira Hara
#1685	Time Series Classification using MACD-Histogram-based SAX and Its Performance Evaluation	
#1769	Objective Measurement for Satisfaction Values to Sightseeing Spots and Route Recommendation System	
#1973	Deterministic Geometric Semantic Genetic Programming with Optimal Mate Selection	
#1280	Interval Type-2 Intuitionistic Fuzzy Logic System for Non-linear System Prediction	

**Pattern Recognition and Image Processing (I)**

Date/Time: October 10 Monday / 13.30-15.00

Paper ID	Paper Title	Author
#2137	Detecting Korean Characters in Natural Scenes by Alphabet Detection and Agglomerative Character Construction	Yuan Yan Tang / Yulong Wang
#1305	A New Method for Blood Smear Good Working Area Identification Based on Hough Transform	
#2330	Laser Stripe Model for Sub-Pixel Peak Detection in Real-Time 3D Scanning	
#2374	Deep Convolution Neural Network with Stacks of Multi-scale Convolutional Layer Block using Triplet of Faces for Face Recognition in the Wild	
#1713	Objective Quality Assessment of Image Retargeting Based on Line Distortion	

**Pattern Recognition and Image Processing (II)**

Date/Time: October 10 Monday / 15.30-17.00

Paper ID	Paper Title	Author
#1099	Effective Subpixel Edge Detection for LED Probes	Yuan Yan Tang / Yulong Wang
#1556	Improved ADMM based TV minimized Image Deblurring Without Boundary Artifacts	
#1708	Rotation-Invariance Can Further Improve State-of-the-Art Blind Deconvolution Techniques	
#1072	Phase Congruency Based Edge Saliency Detection and Rate Control for Perceptual Image and Video Coding	
#1912	Discriminant Dictionary Learning with Sparse Embedding on Face Recognition	

**Pattern Recognition and Image Processing (III)**

Date/Time: October 11 Tuesday / 11.00-12.30

Paper ID	Paper Title	Author
#2372	A hybrid simplified swarm optimization for neural network training to forecast stock price	Yuan Yan Tang / Yulong Wang
#2332	Extended Salient Fisher Vector Encoding for Person Re-identification	
#1777	An Adaptation Module with Growing and Adjustment RBFNN using a Long-Term Memory	
#1218	Automatic selection of relevant features using Rough Set Theory for real-time situation recognition based on fuzzy SOM-based CBR	
#1155	Super Resolution Image Reconstruction and Imaging Device	

**Pattern Recognition and Image Processing (IV)**

Date/Time: October 11 Tuesday / 14.00-15.30

Paper ID	Paper Title	Author
#1146	Road Curve Fitting by Multi-resolution Analysis	Yulong Wang / Alfredo Cuzzocrea
#1272	Local One-dimensional Embedding Interpolation for Hyperspectral Image Classification	
#1682	Improving Unbalanced Downsampling via Maximum Spanning Trees for Graph Signals	
#2040	Face Reconstruction from Skull Based on Least Squares Canonical Dependency Analysis	
#2301	An Efficient CUDA-based Approximate Two-Dimensional Dynamic Programming Algorithm for Advanced Computer Vision Applications	

**Pattern Recognition and Image Processing (V)**

Date/Time: October 12 Wednesday / 17.30-19.00

Paper ID	Paper Title	Author
#1003	Describing Body-Pose Feature - Poselet - Activity Relationship Using Pachinko Allocation Model	Yulong Wang / Yuan Yan Tang
#2306	Image Guided Fuzzy Clustering for Image Segmentation	
#1846	American Sign Language Recognition System by Using Surface EMG Signal	
#2355	Fuzzy Indexed Color descriptor for Image Retrieval	
#1399	A Fast Multi-scale Decomposition based Tone Mapping Algorithm for High Dynamic Range Images	

**Medical Imaging Analytics and Systems Solutions (I)**

Date/Time: October 12 Wednesday / 11.00-12.30

Paper ID	Paper Title	Author
#1037	A FEATURE-PRESERVING MESH DENOISING FILTER FOR 3-D PRINTERS	Yicong Zhou / Jinshan Tang / Sos Aigiagn
#1175	Comparison of Several Speckle Reduction Techniques for 3D Ultrasound Images	
#1654	A Versatile Edge Preserving Image Enhancement Approach For Medical Images Using Guided Filter	
#1745	Implement of follicle monitoring system based on 3D ultrasound images	
#1960	Automatic Segmentation of the Left Atrium from MR Images Via Semantic Information	

**Medical Imaging Analytics and Systems Solutions (II)**

Date/Time: October 12 Wednesday / 16.00-17.30

Paper ID	Paper Title	Author
#1988	An interactive Image retrieval method	Jinshan Tang / Yicong Zhou / Sos Aigiagn
#2404	A Quantitative Histogram-based Approach to Predict Treatment Outcome for Soft Tissue Sarcoma Using Pre- and Post-treatment MRIs	
#2034	An EM-based estimation for a two-level traitor tracing scheme	
#2259	Using Frame Semantics in Authorship Attribution	
#1243	Deep Wavelet Network for Image Classification	

**Intelligent Computing and Innovative Applications (I)**

Date/Time: October 11 Tuesday / 11.00-12.30

Paper ID	Paper Title	Author
#1100	An Adaptive Sliding Self-organizing Fuzzy Controller for Switched Reluctance Motor Drive Systems	Jen-Hsiang Chou / Shun-Yuan Wang
#1164	Applications of Wireless Sensor Network for Monitoring System Based on IOT	
#1180	Assessment of Effect of Music Tempo on Heart Rate Recovery using Wearable Device	
#1181	Multiple Biometric Authentication for Personal Identity using Wearable Device	
#1187	Predictive Direct Torque Control with Discrete Multiple Vector Voltages and Fuzzy Hysteresis	

**Intelligent Computing and Innovative Applications (II)**

Date/Time: October 11 Tuesday / 14.00-15.30

Paper ID	Paper Title	Author
#1498	Design of a Novel Exoskeleton Walking Assistance System	Chwan-Lu Tseng / Shun-Yuan Wang,

#2006 Robust Type-2 T-S Fuzzy Multiple Feedback-Loop H-infinity Controller Design for Uncertain Singular Time-Delay Systems  
#2076 Availability Models for Synchronization Server Infrastructure  
#1241 Academic Research Topics Variation and Prediction Based on FARO and Neural Network  
#1057 Intelligent Investigation Mechanism based on Fuzzy Markup Language for Social Media Application

<b>Big Data Analytics</b>		Date/Time: October 10 Monday / 13.30-15.00
Paper ID	Paper Title	Jose Antonio Iglesias / German Gutierrez
#1008	Empirical Data Analysis: A New Tool for Data Analytics	
#1303	Autonomous Data-driven Clustering for Live Data Stream	
#1503	Social Network Analysis: Evolving Twitter Mining	
#1510	Sequential classifiers for network intrusion detection based on data selection process	
#2478	Forecasting Time Series by an Ensemble of Artificial Neural Networks	
<b>Behavior Modeling for Intelligent Human-Agent Interactions (I)</b>		Date/Time: October 12 Wednesday / 14.00-15.30
Paper ID	Paper Title	Ming Hou
#1513	Effects of Agent Transparency on Human-Autonomy Teaming Effectiveness	
#1529	Modeling Behavior of Computer Generated Forces with Machine Learning Techniques, the NATO task group approach	
#1603	Learning Objective Agent Behavior using a Data-driven Modeling Approach	
#1896	Evolved Creative Intelligence for Computer Generated Forces	
#1901	The Future of Autonomous Air Combat Behavior	
<b>Behavior Modeling for Intelligent Human-Agent Interactions (II)</b>		Date/Time: October 12 Wednesday / 16.00-17.30
Paper ID	Paper Title	Ming Hou
#2500	Assessing Behaviour of Cognitive Agents in a Flight Simulator with Fighter Pilots	
#1087	A Hybrid Modeling Approach for Incorporating Behavioral Issues into Workforce Planning	
#1716	The Effect of Display Type on Operator Prediction of Future Swarm States	
#1880	Vertex-Neighboring Multilevel Force-Directed Graph Drawing	
#1929	Immuno-Inspired Behaviour Adaptation in Multi-Robot Systems	
<b>Robotics, Human Machine Interface, and Haptics (I)</b>		Date/Time: October 12 Wednesday / 16.00-17.30
Paper ID	Paper Title	Edward Tunstel / Rodney Roberts
#1139	MPC-based Motion Cueing Algorithm with Short Prediction Horizon using Exponential Weighting	
#1165	High Speed Vision-based 3D Reconstruction of Continuum Robots	
#1215	Skin Lesion Segmentation using Gray Level Co-occurrence Matrix	
#1224	Semantic Body Parts Segmentation for Quadrupedal Animals	
#1236	Haptics-2 - A system for bilateral control experiments from space to ground via geosynchronous satellites	
<b>Robotics, Human Machine Interface, and Haptics (II)</b>		Date/Time: October 12 Wednesday / 17.30-19.00
Paper ID	Paper Title	Edward Tunstel / Rodney Roberts
#1290	Towards an analytic haptic model for force rendering of soft-tissue dissection	
#1425	An Adaptable System for RGB-D based Human Body Detection and Pose Estimation: Incorporating Attached Props	
#1544	A Particle Swarm Optimization-based Washout Filter for Improving Simulator Motion Fidelity	
#1641	Nested Marsupial Robotic System for Search and Sampling in Increasingly Constrained Environments	
#1242	Fall-back layer concept for autonomous or semi-autonomous systems and processes: requirements, concepts, and first tests	
<b>Robotics, Human Machine Interface, and Haptics (III)</b>		Date/Time: October 12 Wednesday / 09.30-11.00
Paper ID	Paper Title	Rodney Roberts / Edward Tunstel
#1659	Impulsive resistance force generated using pulsed damping brake of DC motor	
#1863	Tissue and Force Modelling on Multi-layered Needle Puncture for Percutaneous Surgery Training	
#1882	Effect of Acceleration and Velocity on Perceptual Force Dead-Band Analysis	
#1945	Driver Behaviour Analysis Using Topological Features	
#1952	Body Joints Regression Using Deep Convolutional Neural Networks	
<b>Robotics, Human Machine Interface, and Haptics (IV)</b>		Date/Time: October 12 Wednesday / 11.00-12.30
Paper ID	Paper Title	Rodney Roberts / Edward Tunstel
#2023	An Empirical Nonlinear Viscoelastic Model of Reflective Force by a Layer of Soft Tissue	
#2190	A Symbolic Motion Planning Approach for the Reach-avoid Problem	
#1321	Attentional Multimodal Interface for Multidrone Search in the Alps	
#2386	MyoHMI: A Low-Cost and Flexible Platform for Developing Real-Time Human Machine Interface for Myoelectric Controlled Applications	
#1946	Self-Organizing Map for Data Collection Planning in Persistent Monitoring with Spatial Correlations	
<b>Modern Technology on Medicine, Health Care and Human Assist (I)</b>		Date/Time: October 10 Monday / 13.30-15.00
Paper ID	Paper Title	Noboru Takagi / Cathy Helgason
#1050	Auto-Assisting Figure Presentation System for Inclusion Education	
#1093	Low Vision Aid through Laser Retina Imaging --- Toward Building Eyesight-aid ---	
#1094	Touch Tracking Analysis for Graphics Image Acquisition by the Visually Impaired --- Toward Understanding Graphical Image Creation by Touch-Sensing ---	
#1182	Consideration of the Experience of a Blind User Using a Tactile Graphics Editor Available for Blind People	
#1246	Pupil Diameter Measurement in Visible-light Environment Using Separability Filter	
<b>Modern Technology on Medicine, Health Care and Human Assist (II)</b>		Date/Time: October 10 Monday / 15.30-17.00
Paper ID	Paper Title	Yutaka Hata / Kazuo Kiguchi
#1341	Gait Analysis of Normal Subjects by Using Force Sensor and Six Inertial Sensor with Wireless Module	
#1419	Identification of Ovarian Follicle with Ovum from Ultrasonic Images	
#1493	Cerebral aneurysm occurrence prediction by morphometric analysis of the Willis ring	
#1507	Application of Self-Organizing Maps to Data Classification and Data Prediction for Female Subjects with Unhealthy-Level Visceral Fat	
#1657	A fundamental study on the effect of vibration stimulation for motion modification in perception-assist	
<b>Modern Technology on Medicine, Health Care and Human Assist (III)</b>		Date/Time: October 10 Monday / 17.00-18.30
Paper ID	Paper Title	Yutaka Hata / Koichi Tanno
#2258	Needs and impressions of communication robotics by seniors with slight physical and cognitive disabilities: Evaluation by system usability scale (SUS)	
#2299	A Wave Detection Method for Air-Coupled Ultrasound System on Human Abdominal Region	
#2320	Band Generation Process for classification of cerebrospinal fluid in Magnetic Resonance Images	
#2400	Visuospatial working memory game and measured memory performances at various ages	
#1438	EPOC aware Energy Expenditure Estimation with Machine Learning	
<b>Knowledge-based and Intelligent Control Solutions for Medical Cyber-Physical Systems (I)</b>		Date/Time: October 10 Monday / 13.30-15.00
Paper ID	Paper Title	Tamas Haidegger / Gernot Kronreif
#1623	A Haptic Guidance System for Computer-Assisted Surgical Training Using Virtual Fixtures	
#2158	Reaction force and surface deformation estimation based on heuristic tissue models	
#2160	Polytopic Model Based Interaction Control for Soft Tissue Manipulation	
#1068	Cross-Coupling Control of a Powered Wheelchair Driven by Rim Motors	
#2442	Dynamic Constraint-based Rendering of Contacts in Haptics	
<b>Knowledge-based and Intelligent Control Solutions for Medical Cyber-Physical Systems (II)</b>		Date/Time: October 10 Monday / 15.30-17.00
Paper ID	Paper Title	Gernot Kronreif / Tamas Haidegger
#2452	Position Control of Robotic Catheters inside the Vasculature based on a Predictive Minimum Energy Model	
#2348	Using Human Intellectual Tasks as Guidelines to Systematically Model Medical Cyber-Physical Systems	
#2481	Robust Lung Segmentation Combining Adaptive Concave Hulls with Active Contours	
#1208	Information Supervisory Control of Human Behavior - Concept and Experiments Toward Realization -	
#1539	Improving malignancy prediction through feature selection informed by nodule size ranges in NLST	
<b>Proactive Healthcare Systems (I)</b>		Date/Time: October 11 Tuesday / 09.30-11.00
Paper ID	Paper Title	Yo-Ping Huang / Tsu-Tian Lee
#1101	Translating the Viewing Position in Single Equirectangular Panoramic Images	
#1121	Early Detection of Driver Drowsiness by WPT and FLFNN Models	
#1191	Mining Time-Dependent Influential Users in Facebook Fans Group	
#1430	A Novel Stabilization Condition for T-S Polynomial Fuzzy System with Time-delay: A Sum-of-Squares Approach	
#1452	Visual Tracking of Adaptive Particle Filter with Color Camera and Thermal Camera	
<b>Proactive Healthcare Systems (II)</b>		Date/Time: October 11 Tuesday / 11.00-12.30
Paper ID	Paper Title	Yo-Ping Huang / Tsu-Tian Lee
#1665	Simple and Practical Skin Detection with Static RGB-Color Lookup Tables: A Visualization-based Study	
#1906	Dynamic Time Warping for IMU Based Activity Detection	
#2492	Efficient DVFS based Energy Saving Scheme for Video Processing Applications of Mobile Healthcare Systems	
#1233	Cardiovascular Risk Prediction based on Retinal Vessel Analysis using Machine Learning	
#1692	Characterizing Human Perception of Emergent Swarm Behaviors	
<b>Collaborative Technologies and Applications (I)</b>		Date/Time: October 11 Tuesday / 09.30-11.00
Paper ID	Paper Title	Weiming Shen / Amy Trappey
#1459	E-MRO Service Policy with Bilateral Requirements using Variable Fuzzy Recognition and Multi-objective Programming	
#1796	Service architecture and evaluation model of distributed 3D printing based on cloud manufacturing	
#1857	A Fine-Grained Permission Control Mechanism for External Storage of Android	
#1858	An Advanced Collaborative Environment for Software Development	
#1905	A Two-Phase Strategy with Micro Genetic Algorithm for Scheduling Multiple AGVs	
<b>Collaborative Technologies and Applications (II)</b>		Date/Time: October 11 Tuesday / 11.00-12.30
Paper ID	Paper Title	Jean-Paul Barthes / Dr. Jano de Souza
#1961	A Flexible Architecture for Selection and Visualization of Information in Emergency Situations	
#2091	Understanding the Resource Positioning Methods that Support Mobile Collaboration	

#2183 A Client-Side Directory Prefetching Mechanism for GlusterFS  
#2267 Open Product Design and Production in IoT-enabled Manufacturing Cloud  
#2427 A Fault Prediction Method Based on Modified Genetic Algorithm Optimized BP Neural Network

<b>Collaborative Technologies and Applications (III)</b>		Date/Time: October 11 Tuesday /14.00-15.30
Paper ID	Paper Title	
#2474	Exploring asymmetric collaboration in social news curation	Junzhou Luo / Weiming Shen
#1939	Collective Motion of Self-Propelled Particles without Collision and Fragmentation	
#1610	Temporal and Agent Abstractions in Multiagent Reinforcement Learning	
#1490	A Systems-theoretic Approach to Early Concept Development	
#2298	Torque Reflecting Coordination Control Interface for Bilateral Shared Autonomous System Over Open Communication Network	
<b>Networked Systems and Networked Control (I)</b>		Date/Time: October 12 Wednesday / 16.00-17.30
Paper ID	Paper Title	Lixian Zhang / Huijun Gao
#1048	pth moment exponential stability for impulsive stochastic delayed neural networks	
#1089	An H-infinity approach to Fault detection for Multirate Sampled-data Systems with Frequency Specifications	
#1140	Cloud-Aided Moving Horizon State Estimation of A Full-Car Semi-Active Suspension System	
#1282	Fault-tolerant consensus for a group of double-integrator agents communicating over directed topology	
#1345	Periodic Model Predictive Control of Multi-Hop Control Networks	
<b>Networked Systems and Networked Control (II)</b>		Date/Time: October 12 Wednesday / 17.30-19.00
Paper ID	Paper Title	Huijun Gao / Lixian Zhang
#1698	Asynchronous $\mathcal{H}_\infty$ Stabilization of Switched Systems with Overlapped Time-Varying Detection Delays	
#2431	Stability and Stabilization of Polynomial Fuzzy Time-delay Systems under Imperfect Premise Matching	
#2432	Stability Analysis and Stabilization for T-S Fuzzy Time-delay Systems with Mismatched Premise Membership Functions	
#1197	FINITE-TIME TOPOLOGY IDENTIFICATION AND FUNCTION PROJECTIVE SYNCHRONIZATION OF COHEN-GROSSBERG NEURAL NETWORKS WITH TIME DELAYS AND STOCHASTIC DISTURBANCE	
<b>Tensor Product Applications</b>		Date/Time: October 12 Wednesday / 11.00-12.30
Paper ID	Paper Title	Levente Kovacs / Peter Galambos
#1970	Non-simplex Enclosing Polytope Generation Concept for Tensor Product Transformation based Controller Design	
#2303	Minimum LTI Exact Representation of Multi-Parameter-Dependent Systems	
#2304	Simplification on a Kinetic Model Network Related to Hydrogen Peroxide Metabolism in Human Erythrocytes	
#2310	Kronecker Product Approximation with Multiple Factor Matrices via the Tensor Product Algorithm	
#1407	Modeling and Control of Urban Expressways with Emergency using Hybrid Petri Nets	
<b>Model-based Healthcare (I)</b>		Date/Time: October 12 Wednesday / 14.00-15.30
Paper ID	Paper Title	Levente Kovacs / Clara Ionescu
#1147	Design and Implementation of a Patient-specified Cognitive Engine for Robotic Needle Insertion	
#1373	Feature Analysis on Heart Failure Classes and Associated Medications	
#1495	Glucose control with incomplete information	
#1756	Modelling for control of hypnosis - a patient friendly approach	
#1312	Algorithms for drawing weakly meshed distribution substation areas	
<b>Model-based Healthcare (II)</b>		Date/Time: October 12 Wednesday / 16.00-17.30
Paper ID	Paper Title	Levente Kovacs / Clara Ionescu
#2169	Modelling xenograft tumor growth under antiangiogenic inhibition with mixed-effects models	
#2349	Haptic feedback tuning in colonoscopy simulation	
#1971	A New Metaheuristic for the Home Health Care Problem: Caregivers Tours and Conflict Visits	
#1392	Interactive Augmented Reality Authoring System using Mobile Device as Input Method	
#1298	Order Interface Model for Individuals With Down Syndrome and Emotion Analysis	
<b>Intelligent Internet of Things</b>		Date/Time: October 11 Tuesday /11.00-12.30
Paper ID	Paper Title	Xiang Su / Yuhong Li
#1423	Enabling User-centered Interactions in the Internet of Things	
#1719	Data and Control Points: A Programming Model for Resource-constrained IoT Cloud Edge Devices	
#1764	TM-IdleTimeout: Improving Efficiency of TCAM in SDN by Dynamically Adjusting Flow Entry Lifecycle	
#2223	OASIS: an Ontological-based Approach for Interlinking CrowdSensing Information Systems	
#2237	QryGraph: A Graphical Tool for Big Data Analytics	
<b>Advanced Methods and Applications for Increasing Control Systems Reliability, Safety and Security</b>		Date/Time: October 12 Wednesday / 17.30-19.00
Paper ID	Paper Title	Emil Pricop / Masaki Samejima
#1075	Formal Reasoning on Authentication in Security Protocols	
#2456	Sidelobe Level Reduction in Linear Array Pattern Synthesis Using Taylor-MUSIC Algorithm for Reliable IEEE 802.11 MIMO Applications	
#1941	Fuzzy Reduced Order Observer-Controller Design for Biomechanical Sit-to-Stand Movement	
#1168	Simple Kernel Search for Large Capacitated Facility Location Problems	
<b>Recent advances in intelligent image and video analysis</b>		Date/Time: October 12 Wednesday / 17.30-19.00
Paper ID	Paper Title	Gerald Schaefer and Iakov Korovin
#1441	The Analysis of Measurement Capabilities Onboard Collinear Digital Stereo Vision Systems	
#2144	Historic Handwritten Manuscript Binarisation using Whale Optimisation	
#2375	Classifying HEp-2 Cells in Immunofluorescence Images Using Multiple Kernel Learning	
#2362	Stable aerial image registration for people detection from a low-altitude aerial vehicle	
#1818	Eyes Detection in Unrestrained Settings using Efficient Match Kernels and SVM Classification	
<b>Intelligent Vehicle Systems and Control (I)</b>		Date/Time: October 10 Monday / 13.30-15.00
Paper ID	Paper Title	Jianbo Lu / Tim Gordon
#1124	Driver Behavior Characterization using Multiple Dynamic Models	
#1328	Driver Parameter Estimation Using Joint E-/UKF and Dual E-/UKF Under Nonlinear State Inequality Constraints	
#1434	Intelligent Electronic Steering Program Based on Road Departure Mitigation Control	
#1758	Localization Tools for Benchmarking ADAS Control Systems	
#1125	Dual Sourcing Problem with Real Option	
<b>Intelligent Vehicle Systems and Control (II)</b>		Date/Time: October 10 Monday / 15.30-17.00
Paper ID	Paper Title	Tim Gordon / Jianbo Lu
#1844	Human Control of Systems with Fractional Order Dynamics	
#1771	An Adaptive Control System for Wheeled Mobile Robot by Using Vector Model	
#1096	Drivable Space Expansion from the Ground Base for Complex Structured Roads	
#1460	Obstacle Avoidance of Autonomous Vehicles with CQP-based Model Predictive Control	
#1797	Using the Viable System Model to control a system of distributed DC/DC converters	
<b>Intelligent Vehicle Systems and Control (III)</b>		Date/Time: October 10 Monday / 17.00-18.30
Paper ID	Paper Title	Jianbo Lu / Tim Gordon
#1553	Multi-spectral Visual Odometry for Unmanned Air Vehicles	
#1957	Feature Abstraction for Driver Behaviour Detection with Stacked Sparse Auto-encoders	
#1074	Tracking Control of Unmanned Ground Vehicles Using State Estimation and Robotic Formalism	
#2337	Strategic Analysis of the European Gas Crisis	
#1782	A Basic Study on Temporal Parameter Estimation of Wheelchair Propulsion based on Measurement of Upper Limb Movements Using Inertial Sensors	
<b>Complexity and Complex Systems in Computational Cybernetics (I)</b>		Date/Time: October 12 Wednesday / 14.00-15.30
Paper ID	Paper Title	Georgi M. Dimirovski
#1014	A Fast Connected Component Algorithm Based on Hub Contraction	
#1213	Decentralized Connective Stabilization of Complexity Large-Scale Systems with Expanding Construction via Observers	
#1376	Flexible Window Control Method Based on Data: A New Technique of AQM	
#1420	Tackling Complexity and Missing Information in Adaptive Control by Fixed Point Transformation-Based Approach	
#1542	Cooperative Dancing with an Industrial Manipulator: Computational Cybernetics Complexities	
<b>Complexity and Complex Systems in Computational Cybernetics (II)</b>		Date/Time: October 12 Wednesday / 16.00-17.30
Paper ID	Paper Title	Georgi M. Dimirovski
#1612	Overcoming Control Complexity of Constrained Three-link Manipulator Using Sliding-mode Control	
#1666	Complexity of Constrained Switching for Switched Nonlinear Systems with Average Dwell Time: Novel Characterization	
#1898	Synergy of Switched-Fuzzy and Fuzzy-Neural Nonlinear Systems Enhances Complexity and Potential	
#1318	A Sensor Fault Detection and Isolation Strategy by using A Dendritic Cell Algorithm	
#1279	Dynamic Delay Risk Assessing Using Cost Based FMEA	
<b>Decision Support Systems based on Multicriteria Methods</b>		Date/Time: October 12 Wednesday / 17.30-19.00
Paper ID	Paper Title	Ana Paula Gusmao / Ernando Schramm
#1287	Multicriteria Decision Model for Prioritization of Alternatives on Water Scarcity Situations	
#1288	Analysis of the decision-makers' weights on preventive maintenance in a water supply system	
#1569	A multicriteria approach for selection of agile methodologies in software development projects	
#1748	Model for Contractor Performance Evaluation in Construction Industry	
#1854	Classification of vulnerable areas using Dominance-based Rough Set Approach	

#### Workshop

#### Workshop on Women in Engineering (I)

Date/Time: October 9 Sunday / 9.00-10.30

Paper ID	Paper Title	habil. Levente Kovács / Clara Ionescu
#1128	Coupled fractional spiking neurons	
#1688	Accessible Indoor Navigation based on Linked Data in Hospitals	
#1712	Fault Tolerant Distributed Control System with Robust Fractional Order Controllers	
#1718	From viscoelastic models to lung function devices	
#1743	A Natural Ventilation Control in Buildings Based on Co-Simulation Architecture and Particle Swarm Optimization	
<b>Workshop on Women in Engineering (II)</b>		Date/Time: October 9 Sunday / 11.00-12.30
Paper ID	Paper Title	habil. Levente Kovács / Clara Ionescu
#1836	Multiparametric Model Predictive Control Strategies of the Hypnotic Component in Intravenous Anesthesia	
#1936	An Analysis of a New Continuous-to-Discrete Time Operator for the Approximation of Fractional Order Systems	
#2141	Comparison of protocol based cancer therapies and discrete controller based treatments in the case of endostatin administration	
<b>Big Data based Technological Innovations on Intelligent Health Service in the Clouds (I)</b>		Date/Time: October 9 Sunday / 9.00-10.30
Paper ID	Paper Title	Hamido Fujita / Herrera-Viedma
#1076	Improving queries and representing heterogeneous information in fuzzy ontologies using multi-granular fuzzy linguistic modelling methods	
#1142	Automated Characterization of Arrhythmias Using Nonlinear Features from Tachycardia ECG Beats	
#1144	Automated Diagnosis of Coronary Artery Disease using Nonlinear Features Extracted from ECG Signals	
#1378	Proactive Healthcare and an Early Warning Mechanism for Coronary Artery Disease Patients using Internet-of-Thing Devices	
#1450	Collaboration Patterns of Researchers Using Social Network Analysis Approach	
<b>Big Data based Technological Innovations on Intelligent Health Service in the Clouds (II)</b>		Date/Time: October 9 Sunday / 11.00-12.30
Paper ID	Paper Title	Hamido Fujita / Herrera-Viedma
#1965	Interval Type-2 Fuzzy DSS for Unbiased Medical Diagnosis	
#1979	A hybrid reasoning system for mobile and intelligent health services	
#2101	Cloud-based Health Monitoring System Based on Commercial Off-the-Shelf Hardware	
<b>Junior</b>		
<b>Junior Cybernetics</b>		Date/Time: October 12 Wednesday / 16.00-17.30
Paper ID	Paper Title	Ms. Kashpruk Nataliia
#1046	Parallel machine scheduling with predefined parts of jobs and family setup times	
#1384	Embedding Optimized Trajectory and Motor Controller Into the Szabad(ka)-II Hexapod Robot	
#1538	Comparison Identification of Statistical and Fuzzy Models of Time Series	
<b>Junior-Cybernetics in Applied Sciences (I)</b>		Date/Time: October 12 Wednesday / 11.00-12.30
Paper ID	Paper Title	Dana Copot / Gyorgy Eigner
#1742	Mixed MFC-VRFT Approach for a Multivariable Aerodynamic System Position Control	
#1775	In vitro glucose concentration estimation by means of fractional order impedance models	
#1982	Investigation of the TP-based modeling possibility of a nonlinear ICU diabetes model	
#1990	Infectious Hospital Agents: an individual-based simulation framework	
<b>Junior-Cybernetics in Applied Sciences (II)</b>		Date/Time: October 12 Wednesday / 14.00-15.30
Paper ID	Paper Title	Gyorgy Eigner / Dana Copot
#2115	Speed control strategy of geophysical measurement platform for archaeological prospection: a conceptual study	
#2206	Augmented Lifecycle Space for traceability and consistency enhancement	
#1574	Novel Methods for Image-Guided ToF Depth Upsampling	
#1591	Fuzzy and Deep Learning Approaches for User Modeling in Interactive Design of Watershed Plans	
#2092	Interactive Q-Learning for Social Robots that Learn from the Wizard: A Pilot Study	
<b>Junior Systems Science &amp; Engineering (I)</b>		Date/Time: October 11 Tuesday / 11.00-12.30
Paper ID	Paper Title	Prof. Premachandra Chinthaka
#1250	Fast Lane Boundary Recognition by a Parallel Image Processor	
#1257	Joint estimation of states and parameters of vehicle model using cubature kalman filter	
#1474	New model for a variant of Pick up and Delivery Problem	
#1519	Controlled Parking for Self-Driving Cars	
<b>Junior Systems Science &amp; Engineering (II)</b>		Date/Time: October 11 Tuesday / 14.00-15.30
Paper ID	Paper Title	Dr. Dániel András Drexler
#1637	Novel Palmprint Biometric System Combining Several Fractal Methods for Texture Information Extraction	
#1907	User-Level Large Scale Load Forecasting Based on GPU	
#1969	Second-order and implicit methods in numerical integration improve tracking performance of the closed-loop inverse kinematics algorithm	
#1525	Kalman filter based cooperative landmark localization in indoor environment for mobile robots	
<b>Junior Systems Science &amp; Engineering (III)</b>		Date/Time: October 12 Wednesday / 11.00-12.30
Paper ID	Paper Title	Mr. Bhowmik Biswajit
#2458	Electrodes Arrangement on Brain-Computer Interface for the ALS's Posture	
#2028	Invariance Principle for Transportation Network	
#2410	One Poison is Antidote Against Another Poison	
<b>Junior Human-Machine Systems (I)</b>		Date/Time: October 12 Wednesday / 14.00-15.30
Paper ID	Paper Title	Mr. Varszegi Kristof
#1171	An Open Source Audio Effect Unit	
#1227	Analysis Method for ERD in Mu-rhythm Detection in Motor Imagery Brain-Computer Interface	
#1281	Interfacing with a speller using EOG glasses	
#1613	Comparison of Algorithms for Detecting Hand Movement from EEG signals	
#1964	Evaluation of Driver Steering Performance with Haptic Guidance under Passive Fatigued Situation	
<b>Junior Human-Machine Systems (II)</b>		Date/Time: October 12 Wednesday / 16.00-17.30
Paper ID	Paper Title	Mr. Sato Ryuya
#2017	Gaze Pattern Analysis in Multi-Display Systems for Teleoperated Disaster Response Robots	
#2155	Optimal Feedback Control Framework Suggests that Changes in The Preferred Direction During BMI Experiments may Occur Even with no Adaptation	
#2275	A Smart HMI for Assisting with Drive Safety Using Emotion Prediction Based on EEG Data	
#2428	Recognition of Infant's Emotions and Needs from Speech Signals	
<b>IEEE SMC 2016 Best Student Paper Finalists</b>		
Paper ID	Paper Title	Date/Time: October 11 Tuesday / 11.00-12.30 T.T. Lee / Tzoo-Hseng S. Li
#1344	An Adaptive Learning Method of Restricted Boltzmann Machine by Neuron Generation and Annihilation Algorithm	
#1405	Feasibility Study for Telexistence on a Ship - Measurement of Delay Time of Satellite Communication	
#1520	A New Hybrid Sensorimotor Driver Model with Model Predictive Control	
#1558	Ergonomic Effects of using Lift Augmentation Devices in Mining Activities	
#1720	Automated Brain Tumor Segmentation using Kernel Dictionary Learning and Superpixel-level Features	
<b>IEEE SMC 2016 Best Paper Finalists</b>		
Paper ID	Paper Title	Date/Time: October 11 Tuesday / 09.30-11.00 T.T. Lee / Tzoo-Hseng S. Li
#2143	Management of Technologies for Electric Vehicle Efficiency Towards Optimizing Range	
#2387	Data Fusion without Knowledge of the Ground Truth Using Tseltin-like Automata	
#1978	Convex Polytopic Modeling of Diabetes Mellitus: A Tensor Product based approach	
#1322	Degree of Automation in Command and Control Decision Support Systems	
#2484	Texture Evaluation System of Paste Food by Using Elastic Imitation Tongue	

Regular Session		Chair / Co-Chair
<b>Decision Support Systems (I)</b>		Date/Time: October 11 Tuesday / 14.00-15.30
Paper ID	Paper Title	Chair(s): Xun Liang / Fei-Yue Wang
#1323	Optimizing the Segmentation Granularity for RTB Advertising Markets with a Two-stage Resale Model	
#1388	Microblog User Community Discovery Using Generalized SimRank Edge Weighting Method	
#1223	Spatio-temporal Route Mining and Visualization for Busy Waterways	
#2382	Timed-Fuzzy Cognitive Maps: An overview	
#2225	A multi-agent approach for building a fuzzy decision support system to assist the SEO process	
<b>Decision Support Systems (II)</b>		Date/Time: October 12 Wednesday / 17.30-19.00
Paper ID	Paper Title	Orlando Belo / Nishi Tatsushi
#2157	A mixed integer linear programming approach to schedule the operating theatre	
#1273	Modeling an Opportunistic ETL Agent Based System Using YAWL	
#1937	Column Generation Heuristics to Airline Crew Scheduling Problem for Fair Working Time	
#1248	An Integrated Decision Support System for Emergency Evacuation Management	
#2388	Improved sEMG Signal Classification using the Twin SVM	
<b>Enterprise Information Systems</b>		Date/Time: October 10 Monday / 17.00-18.30
Paper ID	Paper Title	Amy J.C. Trappey / Carlos C. Insaurralde
#2043	Find the Most Suspicious Tax Evasion Groups from a Taxpayer Interest Interacted Network	
#1132	A Systematic Approach to Design of a Text Categorizer	
#2436	Psychological Ownership: A Human Factor to Consider for the Success of Technology Entrepreneurial Activities	
#2497	Patent Portfolio Analysis of E-payment Services Using Technical Ontology Roadmaps	
#2502	Follow-up Methods for Autonomic Repairing Process	
<b>Infrastructure Systems and Services</b>		Date/Time: October 12 Wednesday / 09.30-11.00
Paper ID	Paper Title	Cristina Muresan / Ir. Dana Copot
#1437	Programming Sensor Networks with Nomadic NFC Transponders	
#2446	A Socio-Technical Perspective to Flexible Design of Energy Infrastructure Systems	
#2449	Performance Evaluation of a Lightweight Virtualization Solution for HPC I/O Scenarios	
#1063	Factors impacting accurate Cole-impedance extractions from magnitude-only measurements	
#2178	Towards a Holonic-Control Inspired Local Market Approach used in Intelligent Energy Systems	
<b>Intelligent Transportation Systems</b>		Date/Time: October 10 Monday / 17.00-18.30
Paper ID	Paper Title	Abdollah Homaifar / Mariagrazia Dotoli
#2352	Identification of Anomalies in Lane Change Behavior Using One-Class SVM	
#1149	A Technique for the Optimal Management of Containers' Drayage at Intermodal Terminals	
#1886	System optimal route choice strategy based on ant colony system	
#2109	Reliable and Low-cost Cyclist Collision Warning System for Safer Commute on Urban Roads	
#1483	Demand Responsive Mobility as a Service	
<b>Robotic Systems (I)</b>		Date/Time: October 10 Monday / 13.30-15.00
Paper ID	Paper Title	Xinjun Mao / Michael Goodrich
#1382	Hierarchical Planning for Error Recovery in Automated Industrial Robotic Systems	
#2334	Context-aware switching between localisation methods for robust robot navigation: a self-supervised learning approach	
#1103	Combining Re-Allocating and Re-Scheduling for Dynamic Multi-Robot Task Allocation	
#1352	Topology-Aware RRT* for Parallel Optimal Sampling in Topologies	
#1546	A Hybrid Probabilistic and Point Set Registration Approach for Fusion of 3D Occupancy Grid Maps	
<b>Robotic Systems (II)</b>		Date/Time: October 10 Monday / 15.30-17.00
Paper ID	Paper Title	Eiji Konaka / Rudolf Jakša
#1432	WiFi RSS Fingerprint Database Construction for Mobile Robot Indoor Positioning System	
#2251	Handling State Uncertainty in Distributed Information Leader Selection for Robotic Swarms	
#2149	A Biologically Inspired Multimodal Whisker Follicle	
#1624	Robotic Attention Manager using Fuzzy Controller with Fractal Analysis	
#1031	Parameter design for two-dimensional truss binary manipulators based on the Kolmogorov-Smirnov statistic and maximum empty circles	
<b>System Modeling and Control (I)</b>		Date/Time: October 10 Monday / 15.30-17.00
Paper ID	Paper Title	Balázs István Benyó / Jun YONEYAMA
#2324	Specific Validation Analysis of Stochastic ICING Model Based Estimation of Insulin Sensitivity Profile Using Clinical Data	
#2042	Calculating the Response Time of Action Flow in Stochastic Process Algebra Models	
#2490	A New Approach to Non-Fragile Output Feedback Controller Design for Uncertain Takagi-Sugeno Fuzzy Systems	
#1114	Managing a Holistic Supply Chain Network for Proactive Resilience	
#1235	Strictly Formalized Situation-Operator-Modeling technique for fall-back layer modeling for autonomous or semi-autonomous systems requiring software-based fail-safe behavior	
<b>System Modeling and Control (II)</b>		Date/Time: October 10 Monday / 17.00-18.30
Paper ID	Paper Title	Jingshan Li / Bálint Kiss
#1609	Detailed octocopter modeling and PD control	
#1206	An Adaptive Unscented Kalman Filtering Approach using Selective Scaling	
#1497	Tube-based robust MPC for pump scheduling in water distribution systems	
#1761	Population-Independent Subsidy and Lump-Sum Tax Based Control of Multipopulation Replicator Dynamics	
#1326	An Iterative Method for Analysis of Joint Visit Model at Dean East Clinic	
<b>Intelligent Power and Energy Systems (I)</b>		Date/Time: October 11 Tuesday / 09.30-11.00
Paper ID	Paper Title	Roobeh Razavi-Far / Po Lun Chang
#2447	Multi-step-ahead prediction techniques for Lithium-ion batteries condition prognosis	
#1025	Small-Signal Analysis of a Kilo-Watt-Grade Power Converter	
#1842	An Analog Ensemble-based Similarity Search Technique for Solar Power Forecasting	
#2338	Nonlinear Phenomena of Varying Reference Current Boost DC-DC Converting Solar Cell System with Incremental Conductance Method for MPPT	
#1073	An average consensus approach for the optimal allocation of a shared renewable energy source	
<b>Intelligent Power and Energy Systems (II)</b>		Date/Time: October 11 Tuesday / 11.00-12.30
Paper ID	Paper Title	Amir Zanj / Bruno Rossi
#1621	Dynamic analysis of Thermoelasticoelasticity in Multi-Physical systems: A Bond Graph Approach	
#1647	Anomaly Detection in Smart Grid Data: An Experience Report	
#2011	Single-machine batch scheduling under time-of-use tariffs: new mixed-integer programming approaches	
#1784	Applications of Support Vector Machines to Standby Power Reduction	
#1038	Measuring the Effectiveness of Zonal Heating Control for Energy Saving	
<b>Model-Based Systems Engineering</b>		Date/Time: October 10 Monday / 17.00-18.30
Paper ID	Paper Title	JATINDRA KUMAR DEKA
#1461	Simulating SysML Transportation Models	
#2409	Detecting and Diagnosing Open Faults in NoC Channels on Activation of Diagonal Nodes	
#2407	A Topology-Agnostic Test Model for Link Shorts in on-Chip Networks	
#1334	Predicting Crime with Routine Activity Patterns Inferred from Social Media	
#1884	Optimal Allocation of Ad Inventory in Real-Time Bidding Advertising Markets	
<b>Human Factors</b>		Date/Time: October 11 Tuesday / 14.00-15.30
Paper ID	Paper Title	Setsuo Tsuruta / TAKASHI KAWABE
#2293	Dictionary-Based Sentiment Classification Method Considering Subject-Predicate Relation	
#1508	Unmanned Aerial Vehicle Control Interface Design and Cognitive Workload: A Constrained Review and Research Framework	
#1091	Effect of Physical Workload on Navigation Task Performance by High-Fit Young Males	
#1848	Influence of Cultural Factors in Dynamic Trust in Automation	
#1701	Study on Communication Channel Property of Deliberation Support System for Citizen Participation: Comparison between FTF Type and Social Media Type Discussions	
<b>Human Performance Modeling</b>		Date/Time: October 12 Wednesday / 17.30-19.00
Paper ID	Paper Title	Mitsuru Higashimori / Takahiro Wada
#1347	Computation of the Vestibulo-Ocular Reflex for eye closure based on the 6DOF-SVC model	
#1820	Exact Maximum Entropy Inverse Optimal Control for Modeling Human Attention Scheduling and Control	
#1177	Human Skill Capture: A Hidden Markov Model of Force and Torque Data in Peg-in-a-Hole Assembly Process	
#1088	Combining 3D Joints Moving Trend and Geometry Property for Human Action Recognition	
#1130	Evidence of Usability: Evaluation of Burn ICU Clinician Decision Support	
<b>Human-Machine Cooperation and Systems</b>		Date/Time: October 11 Tuesday / 14.00-15.30
Paper ID	Paper Title	Michael McCourt / Keiichi Horio
#1522	Passive Switched System Analysis of Semi-Autonomous Systems	
#1537	Towards human-robot interaction: a framing effect experiment	
#1588	Online motion synthesis with minimal intervention control and formal safety guarantees	
#1355	Overcoming Drawback of Feature Instantaneous Bandwidth Using EMD for Epileptic Seizure Classification by RMS frequency	
#1052	Determining mission evolution through UAV telemetry by using decision trees	
<b>Human-Computer Interaction</b>		Date/Time: October 12 Wednesday / 09.30-11.00
Paper ID	Paper Title	Georgios Fainekos / Jonghoon Seo
#1972	PAVES: Partnering with Autonomous Vehicles, Environments, and Systems	
#1883	A study of Displaying 3D Electronic Text Using Augmented Reality via Leap Motion	
#1735	ColorCodeAR: Large identifiable ColorCode-based augmented reality system	

#2024 Arabic Sign Language Recognition System based on Wavelet Networks  
#2289 Extended LTLvis Motion Planning Interface

#### Human-Machine Cooperation and Intelligent Internet Systems

Date/Time: October 10 Monday / 17.00-18.30

Paper ID	Paper Title	Shing-Hong Liu / Sang-Wook Kim
#2377	A Wearable ECG Apparatus for Ubiquitous Health Care	
#1873	Recommendation of Research Papers in DBpia: A Hybrid Approach Exploiting Content and Collaborative Data	
#1145	Obstacle Avoidance for Passive Robot Walking Helper Based on Receding Horizon Control	
#1541	Contact Distinction in Human-Robot Cooperation with Admittance Control	
#1307	A control architecture for hybrid underwater intervention systems	

#### Evolutionary Computation

Date/Time: October 12 Wednesday / 09.30-11.00

Paper ID	Paper Title	Ana Maria de Almeida / Hidehiro Nakano
#1383	Semantic Segmentation using Three-Dimensional Cellular Evolutionary Networks	
#1888	Improved NSGA-III using neighborhood information and scalarization	
#1390	Hierarchical feature construction for image classification using genetic programming	
#1802	A genetic algorithm application for automatic layout design of modular residential homes	
#1943	Analysis for basic dynamics and performances of piecewise particle swarm optimizers	

#### Neural Networks and Applications

Date/Time: October 12 Wednesday / 17.30-19.00

Paper ID	Paper Title	Jan Faigl / Min Han
#1353	Self-Organizing Map-based Solution for the Orienteering Problem with Neighborhoods	
#2032	A Novel Progressive Multi-label Classifier for Class-incremental Data	
#1199	PID and Neural Net Controller Performance Comparison in UAV Pitch Attitude Control	
#1584	Incremental Learning of Neural Network Classifiers Using Reinforcement Learning	

#### Optimization

Date/Time: October 11 Tuesday / 14.00-15.30

Paper ID	Paper Title	Jyh-Cheng Yu / Toshiyuki Miyamoto
#2429	A Population-Based Simulated Annealing Algorithm	
#2343	Evolutionary Algorithm Using Progressive Kriging Model and Dynamic Reliable Region for Expensive Optimization Problems	
#1357	Multi-Objective Embarrassingly Parallel Search with Upper Bound Constraints	
#1160	A novel algorithm for scheduling intrees on two parallel machines with unavailabilities	
#1266	Novel Single-objective Optimization Problem and Firefly Algorithm-based Optimization Method	

#### Machine Vision and Evolutionary Computation

Date/Time: October 11 Tuesday / 11.00-12.30

Paper ID	Paper Title	Egbert Gedat / Helio Pedrini
#1169	Multiple Human Skeleton Recognition in RGB and Depth Images with Graph Theory, Anatomic Refinement of Point Clouds and Machine Learning	
#1868	Adaptive Video Shot Detection Improved by Fusion of Dissimilarity Measures	
#2235	Reference Point Specification in MOEA/D for Multi-Objective and Many-Objective Problems	
#1911	An MOEA/D Combining with Tabu Search for a Double Row Layout Problem with Center Islands	
#1267	Functional Specialization Based Search Strategy for Multi-objective Optimization	

#### Machine Learning

Date/Time: October 12 Wednesday / 16.00-17.30

Paper ID	Paper Title	Han-Joon Kim / Lonnie Thomas Parker
#2099	An Online Universal Classifier for Binary, Multi-class and Multi-label Classification	
#1442	A New Faster First Order Iterative Scheme for Sparsity-based Multitask Learning	
#1728	Intelligent Team Navigation and Coordination for Undersea Environments	
#2291	Semantic Text Classification with Tensor Space Model-based Naïve Bayes	
#2419	Intelligent Anticipatory Agents for Changing Environments	



BMI Papers-Neuroscience Based Design: Fundamentals and Applications		Date/Time: October 12 Wednesday / 09:30-11:00
Paper ID	Paper Title	R. Scherer / O. Sourina / S. C. Wriessneger
#1256	Evaluation of a Neurofeedback-based Cognitive Telerehabilitation System for Neurological Patients	
#1499	Brain-Computer Interface adaptation for an end user to compete in the Cybathlon	
#1722	Using Support Vector Regression to Estimate Valence Level from EEG	
#1894	Assessing Haptic Video Interaction with Neurocognitive Tools	
#2112	Lets play Tic-Tac-Toe: A Brain-Computer Interface case study in cerebral palsy	
BMI Papers-Health and Non-Invasive Wearable BMI		Date/Time: October 11 Tuesday / 09:30-11:00
Paper ID	Paper Title	K. Khaderi / J. Libove
#2254	Cellular Wireless Energy Harvesting for EEG Applications on Smart Contact Lens	
#2280	The Visual System as a Proxy for Evaluation of Brain Function	
#2393	Auto-Powered Intraocular Lenses for Multi-Modal Brain Computer Interfacing	
#2136	Wearable Brain Imager/BMI Technology for Structural, Vascular and Functional Extraction	
#2013	Real-Time Step Detection Using the Integrated Sensors of a Head-Mounted Display	
BMI Papers-Adaptive and Self-Calibrating BMI Systems for Independent Use		Date/Time: October 11 Tuesday / 09:30-11:00
Paper ID	Paper Title	R. Chavarriaga / R. Scherer
#1123	Restricted Boltzmann Machines in Sensory Motor Rhythm Brain-Computer Interfacing: A Study on Inter-Subject Transfer and Co-Adaptation	
#1196	Spectral Meta-Learner for Regression (SMLR) Model Aggregation: Towards Calibrationless BCI	
#1646	Multi-Task Logistic Regression in Brain-Computer Interfaces	
#2269	Unsupervised Adaptive Transfer Learning for Steady-State Visual Evoked Potential Brain-Computer Interfaces	
#2278	Closed-loop regulation of user state during a boundary avoidance task	
BMI Papers-Real World Applications of Brain Computer Interface Systems (I)		Date/Time: October 12 Wednesday / 09:30-11:00
Paper ID	Paper Title	V. A. Prasad / T. Mullen
#1007	Brain-machine Interfacing-based Teleoperation Control of A Wheeled Mobile Robot	
#1448	Voice Familiarity Detection using EEG-based Brain-Computer Interface	
#1811	A Novel Supervised Locality Sensitive Factor Analysis to Classify Voluntary Hand Movement in Multi-Direction Using EEG Source Space	
#1839	Brain-Computer Interfacing for Multimedia Quality Assessment	
#1947	EEG based Stress Level Identification	
BMI Papers-BMI for Neurodriving		Date/Time: October 12 Wednesday / 09:30-11:00
Paper ID	Paper Title	S-W. Lee / J.d.R. Millán
#1221	Dynamic Potential-Model-Based Feature for Lane Change Prediction	
#1417	Classification of Movement-related Cortical Potentials for Multi-Command Control based on Brain-Machine Interface	
#1496	A Hand Gesture based Driver-Vehicle Interface to Control Lateral and Longitudinal Motions of an Autonomous Vehicle	
#1667	Towards an EEG-based Intelligent Wheelchair Driving System with Vibro-tactile Stimuli	
BMI Papers-BMI for Motor/Cognitive Rehabilitation and Assistance (I)		Date/Time: October 12 Wednesday / 09:30-11:00
Paper ID	Paper Title	G. Prasad / J. M. Azorin
#1070	Evaluating decoding performance of upper limb imagined trajectories during center-out reaching tasks	
#1198	The adjustment of muscle synergy recruitment by controlling muscle co-contraction during the reaching movement	
#1444	Analyzing electrode configurations to detect intention of pedaling initiation through EEG signals	
#1589	EMOHEX: An Eye Tracker based Mobility and Hand Exoskeleton Device for Assisting Disabled People	
BMI Papers-Sensor Systems for BMI and Prosthetics		Date/Time: October 12 Wednesday / 11:00-12:30
Paper ID	Paper Title	S-W. Lee / T. Zander
#1528	Variable admittance control in pHRI by measuring muscle co-activation with EMG	
#1658	Patient Simulator Using Wearable Robot to Estimate the Burden of Knee-Osteoarthritis Patients during Sitting-down and Standing-up Motions	
#2116	Control of Artificial Human Finger using Wearable Device and Adaptive Network-Based Fuzzy Inference System	
BMI Papers-Real World Applications of Brain Computer Interface Systems (II)		Date/Time: October 12 Wednesday / 11:00-12:30
Paper ID	Paper Title	V. A. Prasad / A. Nürnbergger
#1086	A Study on the Impact of Neurofeedback in EEG Based Attention-driven Game	
#1963	Individual Alpha Peak Frequency Based Features for Subject Dependent EEG workload classification	
#2008	Biometric Identification of Persons Using Sample Entropy Features of EEG During Rest state	
#2255	Predicting decision accuracy and certainty in complex brain-machine interactions	
#2281	A Robust Interval Type-2 based BCI System	
BMI Papers-BMI for Motor/Cognitive Rehabilitation and Assistance (II)		Date/Time: October 12 Wednesday / 11:00-12:30
Paper ID	Paper Title	R. Chavarriaga / R. Scherer
#1643	SSVEP Based BMI for a Meal Assistance Robot	
#1841	Comparison of Hand and Forearm Muscle Pairs in Controlling of a Novel Myoelectric Interface	
#1850	The Temporal Limits of Agency for Reaching Movements in Augmented Virtuality	
#2286	Classification of Gait from EEG Using Inverse Brain Mapping	
#2415	Imagined 3D Hand Movement Trajectory Decoding from Sensorimotor EEG Rhythms	
BMI Papers-Recent Advances in BMI Speller		Date/Time: October 12 Wednesday / 14:00-15:30
Paper ID	Paper Title	S-W. Lee / B. Blankertz
#1415	Analysis of Steady State Visual Evoked Potential based on Viewing Distance Changes for Brain-Machine Interface Speller	
#1523	OpenBMI: A Real-Time Data Analysis Toolbox for Brain-Machine Interfaces	
#1793	How to identify the user specific stimulation frequencies for SSVEP-based BCI	
#2187	Notes on the Assessment of BCI-Driven Spellers	
#2493	A comparison of face speller approaches for P300 BCIs	
BMI Papers-Real World Applications of Brain Computer Interface Systems (III)		Date/Time: October 12 Wednesday / 14:00-15:30
Paper ID	Paper Title	V. A. Prasad / J. Dauwels
#2485	EEG based Biometric Recognition Using Subject-Specific Alpha Peak Frequency and Delta Band Power	
#2494	EEG hyperscanning study of inter-brain synchrony during cooperative and competitive interaction	
#2151	Spatial Filter Feature Extraction Methods for P300 BCI Speller: A Comparison	
#1194	A Simple Action of Right Index Finger Induces Rubber Hand Illusion to Static Left Hand	
#2097	A Novel Multimodal Gaze-Controlled Hindi Virtual Keyboard for Disabled Users	
BMI Papers-Machine Learning Methods for Brain-Computer Interfacing (I)		Date/Time: October 12 Wednesday / 09:30-11:00
Paper ID	Paper Title	R. Chavarriaga / M. Clerc
#1179	Spatial filters yield stable features for error-related potentials across conditions	
#1192	Agreement Rate Initialized Maximum Likelihood Estimator for Ensemble Classifier Aggregation and Its Application in Brain-Computer Interface	
#1193	Offline EEG-Based Driver Drowsiness Estimation Using Enhanced Batch-Mode Active Learning (EBMAL) for Regression	
#1359	Classification of 17 Voluntary Movements Using Principal Component Analysis for Myoelectric Prosthetic Hand	
#1590	Novel Parameter Tuned Methodology for Under-damped Stochastic Resonance Applied to EEG Signal Enhancement	
BMI Papers-Multi-modal Brain Computer Interface and Physiological Computing		Date/Time: October 12 Wednesday / 11:00-12:30
Paper ID	Paper Title	Sadasivan P. / A. Stoica
#1620	Improved target recognition response using collaborative brain computer interfaces	
#2038	Inactive-State Recognition from EEG Signals and its Application in Cognitive Load Computation	
#2486	Optical EEG (OEEG): A Novel System Towards Portable Real-Time Brain-Computer Interfacing	
#1962	An Investigation of Annotation Smoothing for EEG-based Continuous Music-emotion Recognition	
BMI Papers-Brain and Human-Machine Interaction		Date/Time: October 12 Wednesday / 11:00-11:45
Paper ID	Paper Title	T. Bonaci / R. Kozma
#1190	Online Eye State Prediction from EEG Data Using Deep architectures	
#1549	Frequency Detection for SSVEP-Based BCI using Deep Canonical Correlation Analysis	
#2231	Exocortical Cognition: Heads in the Cloud	
BMI Papers-A Tribute to Walter J. Freeman		Date/Time: October 12 Wednesday / 11:45-12:30
Paper ID	Paper Title	J. Carmena / R. Kozma / J. Principe
#2363	Mass Action in Brains and Computers – A Tribute to Walter J. Freeman	
BMI Papers-Performance Metrics and Human Factors for BMI Training and Operation		Date/Time: October 11 Tuesday / 09:30-11:00
Paper ID	Paper Title	T. Zander / C. Jeunet
#1225	Supervision of time-frequency features selection in EEG signals by a human expert for brain-computer interfacing based on motor imagery	

- #1394 Mastery confidence influences P300 based Brain-Computer Interface (BCI) Performance
- #1918 A Task-Independent Workload Classifier for Neuroadaptive Technology: Preliminary Data
- #2083 Towards a Spatial Ability Training to Improve Motor Imagery based Brain-Computer Interface (MI-BCI) Performance: a Pilot Study

**BMI Papers-Machine Learning Methods for Brain-Computer Interfacing (II)**

Date/Time: October 12 Wednesday / 11:00-12:30

Paper ID	Paper Title	D. Wu / B. Lance
#1649	PNN for EEG-based Emotion Recognition	
#1928	A Separability Marker Based on High-Dimensional Statistics for Classification Confidence Assessment	
#2114	Alternative CSP approaches for multimodal distributed BCI data	
#2361	A Hybrid ICA - Wavelet Transform for Automated Artefact Removal in EEG-based Emotion Recognition	
#2381	Superposition model for steady state visually evoked potentials	

**BMI Papers-Neurostimulation and BMI**

Date/Time: October 12 Wednesday / 09:30-11:00

Paper ID	Paper Title	C. S. Nam / M. C. Thompson
#1339	Comparison of Reaction Times in Response to Electrical and Visual Stimulation Using a High-speed Camera	
#1650	A Hybrid BCI-Controlled FES System for Hand-Wrist Motor Function	
#1840	A Study on the Effect of Electrical Stimulation During Motor Imagery Learning in Brain-Computer Interfacing	
#1866	Demonstration of a stable chronic electrocorticography-based brain-computer interface using a deep brain stimulator	
#1938	Multichannel Cuff Electrodes for Peripheral Nerve Stimulation and Recording	