

ICONIP2011 Technical Program (Preliminary)

Nov 14-16, Majesty Plaza, Shanghai, China

Mon., Nov. 14	Track 1: Speech and Auditory Processing	
10:45 -11:00	Speaker Identification Using Discriminative Learning of Large Margin GMM	Khalid Daoudi, Reda Jourani, Régine AndréObrecht, Driss Aboutajdine
11:00 -11:15	Preprocessing of Independent Vector Analysis Using Feed-Forward Network for Robust Speech Recognition	Myungwoo Oh, Hyung-Min Park
11:15 -11:30	Performances Evaluation of GMM-UBM and GMM-SVM for Speaker Recognition in Realistic World	Nassim Asbai, Abderrahmane Amrouche, Mohamed Debyeche
11:30 -11:45	Naive Bayesian Multistep Speaker Recognition Using Competitive Associative Nets	Shuichi Kurogi, Mineishi Shota, Tsukazaki Tomohiro, Nishida Takashi
11:45 -12:00	Modular Scale-Free Function Subnetworks in Auditory Areas	Sanming Song, Hongxun Yao
Mon., Nov. 14	Track 2: Natural Language Processing and Intelligent Web Information Processing	
10:45 -11:00	Using Hybrid Kernel Method for Question Classification in CQA	Shixi Fan, Xiaolong Wang, Xuan Wang, Xiaohong Yang
11:00 -11:15	News Thread Extraction based on Topical N-gram Model with a Background Distribution	Zehua Yan, Fang Li
11:15 -11:30	Diversifying Question Recommendations in Community-based Question Answering	Yaoyun Zhang, Xiaolong Wang, Xuan Wang, Ruifeng Xu, Buzhou Tang
11:30 -11:45	User Identification for Instant Messages	Yuxin Ding, Xuejun Meng, Guangren Chai, Yan Tang
11:45 -12:00	Towards Understanding Spoken Tunisian Dialect	Marwa Graja, Maher Jaoua, Lamia Hadrich Belguith
Mon., Nov. 14	Track 3: Bio-Medical Data Analysis	
10:45 -11:00	Dynamic Bayesian Network Modeling of Cyanobacterial Biological Processes via Gene Clustering	Nguyen Vinh, Chetty Madhu, Wangikar Pramod, Coppel Ross
11:00 -11:15	Imputation	Yu Cheng, Lan Wang, Jinglu Hu
11:15 -11:30	Knowledge-based Segmentation of Spine and Ribs from Bone Scintigraphy	Qiang Wang, Qingqing Chang, Yu Qiao, Yuyuan Zhu, Gang Huang, Jie Yang

11:30 -11:45	Adaptive Region Growing Based on Boundary Measures	Yu Qiao, Jie Yang
11:45 -12:00	Exploring Associations Between Changes in Ambient Temperature and Stroke Occurrence: Comparative Analysis Using Global and Personalised Modelling Approaches	Wen Liang, Yingjie Hu, Nikola Kasabov, Valery Feigin
Mon., Nov. 14	Track 4: Neural Coding and Learning	
10:45 -11:00	Dreaming Your Fear Away: A Computational Model for Fear Extinction Learning During Dreaming	Jan Treur
11:00 -11:15	Neural Model of Auditory Cortex for Binding Sound Intensity and Frequency Information in Bat's Echolocation	Yoshitaka Mutoh, Mutoh Yoshitaka
11:15 -11:30	On Rationality of Decision Models Incorporating Emotion-Related Valuing and Hebbian Learning	Jan Treur, Muhammad Umair
11:30 -11:45	Simple Models for Synaptic Information Integration	Danke Zhang, Yuwei Cui, Yuanqing Li, Si Wu
11:45 -12:00	A Modified Multiplicative Update Algorithm for Euclidean Distance-Based Nonnegative Matrix Factorization and its Global	Ryota Hibi, Norikazu Takahashi
Mon., Nov. 14	Track 5: Brain-Realistic Models for Learning, Memory and Embodied Cognition	
10:45 -11:00	Brain Inspired Cognitive System for Learning and Memory	Huajin Tang Weiwei Huang
11:00 -11:15	Axonal Slow Integration Induced Persistent Firing Neuron Model	Ning Ning, Kaijun Yi, Kejie Huang, Luping Shi
11:15 -11:30	A Neuro-Cognitive Robot for Spatial Navigation	Weiwei Huang, Huajin Tang, Jiali Yu, Chin Hiong Tan
11:30 -11:45	Associative Memory Model of Hippocampus CA3 Using Spike Response Neurons	Chin Hiong Tan, Eng Yeow Cheu, Jun Hu, Qiang Yu
11:45 -12:00	Goal-oriented Behavior Generation for Visually-guided Manipulation Task	Sungmoon Jeong, Yunjung Park, Hiroaki Arie, Jun Tani, and Minhoo Lee
Mon., Nov. 14	Track 1: Image Processing	
16:00 -16:15	A Multimodal Information Collector for Content-Based Image Retrieval System	He Zhang, Mats Sjoberg, Jorma Laaksonen, Erkki Oja
16:15 -16:30	Contour-Based Large Scale Image Retrieval	Rong Zhou, Liqing Zhang
16:30 -16:45	Multiview Range Image Registration Using Competitive Associative Net and Leave-One-Image-Out Cross-Validation	Shuichi Kurogi, Tomokazu Nagi, Shoichi Yoshinaga, Hideaki Koya, Takeshi Nishida
16:45 -17:00	Airport Detection in Remote Sensing Images Based on Visual	Xin Wang, Bin Wang, Liming Zhang
17:00 -17:15	Learning Global and Local Features for License Plate Detection	Sheng Wang, Wenjing Jia, Qiang Wu, Xiangjian He, Jie Yang

17:15 -17:30	Integrating Local Features into Discriminative Graphlets for Scene Classification	Luming Zhang, Wei Bian, Mingli Song, Dacheng Tao, Xiao Liu
17:30 -17:45	Decision Tree Based Recognition of Bangla Text from Outdoor Scene Images	Ranjit Ghoshal, Anandarup Roy, Tapan Kumar Bhowmik, Swapan K. Parui
17:45 -18:00	A Markov Random Field Model for Image Segmentation Based on Gestalt Laws	Yuan Ren, Huixuan Tang, Hui Wei
Mon., Nov. 14	Track 2: Biologically Inspired Vision and Recognition	
16:00 -16:15	Visual Reconstructed Representations for Object Recognition and Detection	Yasuomi D. Sato, Yasutaka Kuriya, Christoph von der Malsburg
16:15 -16:30	Visual Cortex Inspired Junction Detection	Shuzhi Sam Ge, Chengyao Shen, Hongsheng He
16:30 -16:45	Skull-Closed Autonomous Development	Yuekai Wang, Xiaofeng Wu, Xiaofeng Weng
16:45 -17:00	Analysis of The Proton Mediated Feedback Signals in The Outer Plexiform Layer of Goldfish Retina	Nilton Liuji Kamiji, Masahiro Yamada, Kazunori Yamamoto, Hajime Hirasawa, Makoto Kurokawa, Shiro Usui
17:00 -17:15	System	Fang Fang, Laiyun Qing, Jun Miao, Xilin Chen, Wen Gao
17:15 -17:30	A Saliency Detection Model based on Local and Global Kernel Density Estimation	Huiyun Jing, Xin He, Qi Han, Xiamu Niu
17:30 -17:45	Bio-Inspired Visual Saliency Detection and Its Application on Image Retargeting	Lijuan Duan, Chunpeng Wu, Haitao Qiao, Jili Gu, Jun Miao, Laiyun Qing, Zhen Yang
17:45 -18:00	Effects of second-order statistics on independent component filters	Andre Cavalcante, Barros Allan Kardec, Takeuchi Yoshinori, Ohnishi Noboru
Mon., Nov. 14	Track 3: Kernel Methods	
16:00 -16:15	Multitask Learning Using Regularized Multiple Kernel Learning	Mehmet Gönen, Melih Kandemir, Samuel Kaski
16:15 -16:30	Subspace	Peipei Yang, Kaizhu Huang, Cheng-Lin Liu
16:30 -16:45	On Low-Rank Regularized Least Squares for Scalable Nonlinear Classification	Zhouyu Fu, Guojun Lu, Kai-Ming Ting, Dengsheng Zhang
16:45 -17:00	Relational Extensions of Learning Vector Quantization	Barbara Hammer, Frank-Michael Schleif, Xibin Zhu
17:00 -17:15	Multi-Sphere Support Vector Clustering	Sharma
17:15 -17:30	Learning with Box Kernels	Stefano Melacci, Marco Gori
17:30 -17:45	Solving Support Vector Machines Beyond Dual Programming	Xun Liang
17:45 -18:00	Support Constraint Machines	Gori Marco, Melacci Stefano

Mon., Nov. 14	Track 4: Unsupervised Learning and Self-Organization	
16:00 -16:15	Threshold	Kunihiko Fukushima, Isao Hayashi, and Jasmin L éveill é
16:15 -16:30	Shape Space Estimation by SOM ²	Sho Yakushiji, Tetsuo Furukawa
16:30 -16:45	The Self-Organizing Map Tree (SOMT) for Nonlinear Data Causality Prediction	Younjin Chung, Masahiro Takatsuka
16:45 -17:00	Simultaneous Pattern and Variable Weighting During Topological Clustering	Nistor Grozavu and Younes Bennani
17:00 -17:15	A Robust Approach for Multivariate Binary Vectors Clustering and Feature Selection	Mohamed Al Mashrgy, Nizar Bouguila, Khalid Daoudi
17:15 -17:30	Co-clustering under Nonnegative Matrix Tri-Factorization	Lazhar Labiod, Mohamed Nadif
17:30 -17:45	A new simultaneous two-levels coclustering algorithm for behavioural data-mining	Gu éna ð Cabanes, Youn ès Bennani, Dominique Fresneau
17:45 -18:00	A Dynamic Unsupervised Laterally Connected Neural Network Architecture for Integrative Pattern Discovery	Asanka Fonseka, Damminda Alahakoon, Jayantha Rajapakse
Mon., Nov. 14	Applications	
16:00 -16:15	Self-Adjusting Feature Maps Network	Chin-Teng Lin, Dong-Lin Li, Jyh-Yeong Chang
16:15 -16:30	Analysis On Wang's kWTA with Stochastic Output Nodes	John Sum, Chi-sing Leung, Kevin Ho
16:30 -16:45	Method of Solving Combinatorial Optimization Problems with Stochastic Effects	Takahiro Sota, Yoshihiro Hayakawa, Shigeo Sato, Koji Nakajima
16:45 -17:00	Recall Time Reduction of A Morphological Associative Memory Employing A Reverse Recall	Hidetaka Harada, Tsutomu Miki
17:00 -17:15	Robust Control of Nonlinear System Using Difference Signals and Multiple Competitive Associative Nets	Shuichi Kurogi, Hiroshi Yuno, Takeshi Nishida, Weicheng Huang
17:15 -17:30	An Automated System for The Analysis of The Status of Road Safety Using Neural Networks	Brijesh Verma, David Stockwell
17:30 -17:45	Deep Belief Networks For Financial Prediction	Bernardete Ribeiro, Noel Lopes
17:45 -18:00	An Information Theoretic Approach to Joint Approximate Diagonalization	Matsuda Yoshitatsu, Yamaguchi Kazunori
Tues., Nov. 15	Track 1: Computational-Intelligent Human Computer Interaction	

10:30 -10:45	An EEG-Based Brain-Computer Interface for Dual Task Driving Detection	Chin-Teng Lin, Yu-Kai Wang, Shi-An Chen
10:45 -11:00	A Sparse Common Spatial Pattern Algorithm for Brain-Computer Interface	Li-Chen Shi, Yang Li, Rui-Hua Sun, Bao-Liang Lu
11:00 -11:15	EEG-based Motion Sickness Estimation Using Principal Component Regression	Li-Wei Ko, Chun-Shu Wei, Chin-Teng Lin
11:15 -11:30	Reading Your Mind: EEG During Reading Task	Tan Vo, Tom Gedeon
11:30 -11:45	A Novel Combination of Time Phase and EEG Frequency Components for SSVEP-based BCI	Jing Jin, Yu Zhang, Xingyu Wang
11:45 -12:00	Interface	Sharma
Tues., Nov. 15	Track 2: Human-Originated Data Analysis and Implementation	
10:30 -10:45	A Robust Face Recognition through Statistical Learning of Local Features	Jeongin Seo, Hyeyoung Park
10:45 -11:00	Adaptive Colour Calibration for Object Tracking under Spatially-Varying Illumination Environments	Heesang Shin, Napoleon H. Reyes, Andre L. Barczak
11:00 -11:15	Expanding Knowledge Source with Ontology Alignment for Augmented Cognition	Jeong-Woo Son, Seongtaek Kim, Seong-Bae Park, Yunseok Noh, Jun-Ho Go
11:15 -11:30	Nyström Approximations for Scalable Face Recognition: A Comparative Study	Jeong-Min Yun, Seungjin Choi
11:30 -11:45	Development of Visualizing Earphone and Hearing Glasses for Human Augmented Cognition	Byunghun Hwang, Cheol-Su Kim, Hyung-Min Park, Yun-Jung Lee, Min-Young Kim, Minho Lee
11:45 -12:00	An Online Human Activity Recognizer for Mobile Phones with Accelerometer	Yuki Maruno, Kenta Cho, Yuzo Okamoto, Hisao Setoguchi, Kazushi Ikeda
Tues., Nov. 15	Track 3: Clifford Algebraic Neural Networks	
10:30 -10:45	Comparison of Complex- and Real-valued Feedforward Neural Networks in Their Generalization Ability	Akira Hirose, Shotaro Yoshida
10:45 -11:00	Widely Linear Processing of Hypercomplex Signals	Tohru Nitta
11:00 -11:15	An Automatic Music Transcription Based on Translation of Spectrum and Sound Path Estimation	Ryota Ikeuchi, Kazushi Ikeda

11:15 -11:30	Real-Time Hand Gesture Recognition Using Complex-Valued Neural Network (CVNN)	Abdul Rahman Hafiz, Md Faijul Amin, Kazuyuki Murase
11:30 -11:45	Marquardt Learning Algorithms in Complex-Valued Neural Networks	Md. Faijul Amin, Muhammad Ilias Amin, A.Y.H. Al-Nuaimi, and Kazuyuki Murase
11:45 -12:00	Models of Hopfield-type Clifford Neural Networks and Their Energy Functions	Yasuaki Kuroe, Shinpei Tanigawa, Hitoshi Iima
Tues., Nov. 15	Track 4: Multi-Agent Systems	
10:30 -10:45	A Computational Agent Model for Hebbian Learning of Social Interaction	Jan Treur
10:45 -11:00	The Bystander Effect: Agent-Based Simulation of People's Reaction to Norm Violation	Charlotte Gerritsen
11:00 -11:15	Multi Agent Carbon Trading Incorporating Human Traits and Game Theory	Long Tang, Suryani Lim, Madhu Chetty
11:15 -11:30	Robotics	Nataliya Sokolovska, Olivier Teytaud, Mario Milone
11:30 -11:45	An Action Selection Method Based on Estimation of Other's Intention in Time-Varying Multi-Agent Environments	Kunikazu Kobayashi, Ryu Kanehira, Takashi Kuremoto, Masanao Obayashi
11:45 -12:00	Analysis of Beliefs of Survivors of the 7-7 London Bombings Application of a Formal Model for Contagion of Mental States	Tibor Bosse, Vikas Chandra, Eve Mitleton-Kelly, and C. Natalie van der Wall
Tues., Nov. 15	Track 5: Supervised Learning	
10:30 -10:45	Regularizer for Co-existing of Open Weight Fault and Multiplicative Weight Noise	Chi-Sing Leung, John Pui-Fai Sum
10:45 -11:00	Uncertainty Measure for Selective Sampling Based on Class Probability Output Networks	Ho Gyeong Kim, Rhee Man Kil, Soo-Young Lee
11:00 -11:15	A New Algorithm for Learning Mahalanobis Discriminant Functions by a Neural Network	Yoshifusa Ito, Hiroyuki Izumi, Cidambi Srinivasan
11:15 -11:30	Classifier	Noel Lopes, Bernardete Ribeiro
11:30 -11:45	An Extended TopoART Network for the Stable On-Line Learning of Regression Functions	Marko Tscherepanow
11:45 -12:00	Statistical Nonparametric Bivariate Isotonic Regression by Look-Up-Table-Based Neural Networks	Simone Fiori
Tues., Nov. 15	Track 1: Spiking Neurons	

16:00 -16:15	Evolving Probabilistic Spiking Neural Networks for Spatio-Temporal Pattern Recognition	Nikola Kasabov, Kshitij Dhoble, Nuttapod Nuntalid, Ammar Mohemmed
16:15 -16:30	Event-Driven Simulation of Arbitrary Spiking Neural Networks on SpiNNaker	Thomas Sharp, Luis A. Plana, Francesco Galluppi, Steve Furber
16:30 -16:45	Dynamic Response Behaviors of A Generalized Asynchronous Digital Spiking Neuron Model	Takashi Matsubara, Hiroyuki Torikai
16:45 -17:00	Networks	J Wang, A Belatreche, L.P. Maguire, T.M. McGinnity
17:00 -17:15	Reservoir-based Evolving Spiking Neural Network for Spatio-Temporal Pattern Recognition	Stefan Schliebs, Haza Nuzly Abdull Hamed, Nikola Kasabov
17:15 -17:30	Generalized PWC Analog Spiking Neuron Model and Reproduction of Fundamental Neurocomputational Properties	Yutaro Yamashita, Hiroyuki Torikai
17:30 -17:45	Nonlinear Effect on Phase Response Curve of Neuron Model	Munenori Iida, Toshiaki Omori, Toru Aonishi, Masato Okada
17:45 -18:00	Self-organizing Digital Spike Interval Maps	Takashi Ogawa, Toshimichi Saito
Tues., Nov. 15	Track 2: Combining Multiple Learners	
16:00 -16:15	Unsupervised Object Ranking Using Not Even Weak experts	Antoine Cornu ejols, Christine Martin
16:15 -16:30	Weighted Topological Clustering for Categorical Data	Nicoleta Rogovschi, Mohamed Nadif
16:30 -16:45	An Evolutionary Algorithm Based Optimization of Neural Ensemble Classifiers	Chien-Yuan Chiu, Brijesh Verma
16:45 -17:00	Using Bagging and Cross-Validation to Improve Ensembles Based on Penalty Terms	Joaquín Torres-Sospedra, Carlos Hernández-Espinosa, Mercedes Fernández-Redondo
17:00 -17:15	Feature Relationships Hypergraph for Multimodal Recognition	Luming Zhang, Mingli Song, Wei Bian , Dacheng Tao, Xiao Liu, Jiajun Bu, Chun Chen
17:15 -17:30	Energy-Based Feature Selection and Its Ensemble Version	Yun Li, Su-Yan Gao
17:30 -17:45	Improving Boosting Methods by Generating Specific Training and Validation Sets	Joaquín Torres-Sospedra, Carlos Hernández-Espinosa, Mercedes Fernández-Redondo
17:45 -18:00	Predicting Concept Changes Using a Committee of Experts	Ghazal Jaber, Antoine Cornu ejols and Philippe Tarroux
Tues., Nov. 15	Track 3: Brain Signal Processing	
16:00 -16:15	A novel oddball paradigm for affective BCIs using emotional faces as stimuli	Qibin Zhao, Akinari Onishi, Jianting Cao, Liqing Zhang, Andrzej Cichocki
16:15 -16:30	Multiway Canonical Correlation Analysis for Frequency Components Recognition in SSVEP-based BCIs	Yu Zhang, Guoxu Zhou, Qibin Zhao, Akinari Onishi, Jing Jin, Xingyu Wang, Andrzej Cichocki

16:30 -16:45	An Emotional Face Evoked EEG Signal Recognition Method Based on Optimal EEG Feature and Electrodes Selection	Lijuan Duan,Xuebin Wang, Zhen Yang, Haiyan Zhou, Chunpeng Wu, Qi Zhang, Jun Miao
16:45 -17:00	Functional Connectivity Analysis with Voxel-based Morphometry for Diagnosis of Mild Cognitive Impairment	JungHoe Kim, Jong-Hwan Lee
17:00 -17:15	An Application of Translation Error to Brain Death Diagnosis	Gen Hori, Jianting Cao
17:15 -17:30	Research on Relationship Between Saccadic Eye Movements and EEG Signals in the Case of Free Movements and Cued	Arao Funase, Andrzej Cichocki, and Ichi Takumi
17:30 -17:45	Estimation System for Human-Interest Degree while Watching TV Commercials Using EEG	Negishi Yuna, Dou Zhang, Yasue Mitsukura
17:45 -18:00	EEG Classification with BSA Spike Encoding Algorithm and Evolving Probabilistic Spiking Neural Network	Nuttapod Nuntalid, Kshitij Dhoble, Nikola Kasabov
Tues., Nov. 15	Bioinformatics	
16:00 -16:15	Pathway-Based Microarray Analysis with Negatively Correlated Feature Sets for Disease Classification	Pitak Sootanan, Santitham Prom-on, Asawin Meechai, and Jonathan H. Chan
16:15 -16:30	A Feature Selection Approach for Emulating the Structure of Mental Representations	Marko Tscherepanow, Marco Kortkamp, Sina Kühnel, Jonathan Helbach, Christoph Schütz, Thomas Schack
16:30 -16:45	A Modified Two-Stage SVM-RFE Model for Cancer Classification Using Microarray Data	Phit Ling Tan, Shing Chiang Tan, Chee Peng Lim, Swee Eng Khor
16:45 -17:00	Improved gene clustering based on particle swarm optimization, K-Means, and cluster matching	Yau-King Lam, P.W.M. Tsang, Chi-Sing Leung
17:00 -17:15	A Memetic Approach to Protein Structure Prediction in Triangular Lattices	M.K. Islam, M. Chett1, A. Dayem Ullah, K. Steinhofel
17:15 -17:30	Prediction	Yingjie Hu, Nikola Kasabov
17:30 -17:45	mechanism	Fan Yang, Lin Wang
17:45 -18:00	The Relationship between the Newborn Rats' Hypoxic-ischemic Brain Damage and Heart Beat Interval Information	Xiaomin Jiang, Hiroki Tamura, Koichi Tanno, Li Yang, Hiroshi Sameshima, Tsuyomu Ikenoue
Tues., Nov. 15	Track 5: Graphical and Mixture Models	
16:00 -16:15	An Infinite Mixture of Inverted Dirichlet Distributions	Taoufik Bdiri and Nizar Bouguila
16:15 -16:30	Polynomial Time Algorithm for Learning Globally Optimal Dynamic Bayesian Network	Nguyen Xuan Vinh, Madhu Chetty, Ross Coppel, Pramod P. Wangikar

16:30 -16:45	Human Activity Inference Using Hierarchical Bayesian Network in Mobile Contexts	Young-Seol Lee, Sung-Bae Cho
16:45 -17:00	Image Classification based on Weighted Topics	Yunqiang Liu, Vicent Caselles
17:00 -17:15	Feature Reduction Using a Topic Model for the Prediction of Type III Secreted Effectors	Sihui Qi, Yang Yang, Anjun Song
17:15 -17:30	A Variational Statistical Framework for Object Detection	Wentao Fan, Nizar Bouguila, Djemel Ziou
17:30 -17:45	SVM and Greedy GMM Applied on Target Identification	Dalila Yessad, Abderrahmane Amrouche, Mohamed Debyeche
17:45 -18:00	Segmentation	Ali Sefidpour, Nizar Bouguila
Wed., Nov. 16	Track 1: Brain-like Systems	
10:30 -10:45	Implementation of Visual Attention System Using Artificial Retina Chip and Bottom-up Saliency Map Model	Bumhwi Kim, Hirotsugu Okuno, Tetsuya Yagi, Minhoo Lee
10:45 -11:00	A Biologically Inspired Model for Occluded Patterns	Saifullah Mohammad
11:00 -11:15	Bio-inspired Model of Spatial Cognition	Michal Vavrecka, Igor Farkas, Lenka Lhotska
11:15 -11:30	Visual Information of Endpoint Position is Not Required for Prism Adaptation of Shooting Task	Takumi Ishikawa, Yutaka Sakaguchi
11:30 -11:45	Voxels	Sanming Song, Hongxun Yao
11:45 -12:00	A Method to Construct Visual Recognition Algorithms on The Basis of Neural Activity Data	Hiroki Kurashige, Hideyuki Cateau
Wed., Nov. 16	Track 2: Integrating Multiple Nature-inspired Approaches	
10:30 -10:45	Evolutionary Algorithms for Computing Unique Input Output Sequences	Jinlong Li, Guanzhou Lu, Xin Yao
10:45 -11:00	Algorithms	Josu Ceberio, Alexander Mendiburu, Jose A. Lozano
11:00 -11:15	A Hybrid Dynamic Multi-objective Immune Optimization Algorithm Using Prediction Strategy and Improved Differential Evolution Crossover Operator	Yajuan Ma, Ruochen Liu, Ronghua Shang
11:15 -11:30	Alleviate the Hypervolume Degeneration Problem of NSGA- II	Fei Peng, Ke Tang
11:30 -11:45	Optimizing Interval Multi-objective Problems Using IEAs with Preference Direction	Jing Sun, Dunwei Gong, Xiaoyan Sun
11:45 -12:00	Evolution of Neural Controllers for Emergence of Leadership in Robot Colony	Seung-Hyun Lee, Si-Hyuk Yi, Sung-Bae Cho

Wed., Nov. 16	Track 3: Web and Document Processing	
10:30 -10:45	Relations	Qi Zhao, Zengchang Qin, Tao Wan
10:45 -11:00	Enrichment and Reductionism: Two Approaches for Web Query Classification	Ritesh Agrawal, Xiaofeng Yu, Irwin King, Remi Zajac
11:00 -11:15	Resource Allocation and Scheduling of Multiple Composite Web Services in Cloud Computing Using Cooperative Coevolution	Lifeng Ai, Maolin Tang, Colin Fidge
11:15 -11:30	PatentRank:An Ontology-based Approach to Patent Search	Ming Li, Hai-Tao Zheng, Yong Jiang, Shu-Tao Xia
11:30 -11:45	Learning to Rank Documents Using Similarity Information between Objects	Di Zhou, Yuxin Ding, Qingzhen You, Min Xiao
11:45 -12:00	Effect of Dimensionality Reduction on Different Distance Measures in Document Clustering	Mari-Sanna Paukkeri, Ilkka Kivimaki, Santosh Tirunagari, Timo Honkela
Wed., Nov. 16	Track 4: Advances in Computational Intelligence Methods based Pattern Recognition	
10:30 -10:45	Graphical Lasso Quadratic Discriminant Function for Character Recognition	Bo Xu, Kaizhu Huang, Irwin King, Cheng-Lin Liua, Jun Sun
10:45 -11:00	Learning Based Visibility Measuring with Images	Xu-Cheng Yin, Tian-Tian He, Hong-Wei Hao, Xi Xu, Xiao-Zhong Cao, Qing Li
11:00 -11:15	Enhanced Codebook Model for Real-time Background Subtraction	Munir Shah, Jeremiah Deng, Brendon Woodford
11:15 -11:30	Multi-View Pedestrian Recognition Using Shared Dictionary Learning with Group Sparsity	Shuai Zheng, Bo Xie, Kaiqi Huang, Dacheng Tao
11:30 -11:45	Denial-of-Service Attack Detection Based on Multivariate Correlation Analysis	Zhiyuan Tan, Aruna Jamdagni, Xiangjian He, Priyadarsi Nanda, Ren Ping Liu
11:45 -12:00	A Two Stage Algorithm for K-mode Convolutive Nonnegative Tucker Decomposition	Qiang Wu, Liqing Zhang, Andrzej Cichocki
Wed., Nov. 16	neuroengineering	
10:30 -10:45	A Probabilistic Model for Discovering High Level Brain Activities from fMRI	Jun Li, Dacheng Tao
10:45 -11:00	An Integrated Hierarchical Gaussian Mixture Model to Estimate Vigilance Level Based on EEG Recordings	Jing-Nan Gu, Hong-Jun Liu, Hong-Tao Lu, Bao-Liang Lu

11:00 -11:15	Power Laws for Spontaneous Neuronal Activity in Hippocampal CA3 Slice Culture	Toshikazu Samura, Yasuomi D. Sato, Yuji Ikegaya, Hatsuo Hayashi
11:15 -11:30	Multifractal Analysis of Intracranial EEG in Epileptic Rats	Tao Zhang, A Kunhan Xu
11:30 -11:45	P300 Response Classification in the Presence of Magnitude and Latency Fluctuations	Wee Lih Lee, Yee Hong Leung, Tele Tan
11:45 -12:00	EEG Analysis of the Navigation Strategies in a 3D Tunnel Task	Michal Vavrečka, Vaclav Gerla, Lenka Lhotska
Wed., Nov. 16 Special Forum (13:30-15:30)		
Wed., Nov. 16	Poster Session	
15:30-17:30	Learning of Dynamic BNN toward Storing-and-Stabilizing Periodic Patterns	Ryo Ito, Yuta Nakayama, Toshimichi Saito
15:30-17:30	Recognition	Ke Fan, Wanquan Liu, Senjian An, Xiaoming Chen
15:30-17:30	SPAN: A Neuron for Precise-Time Spike Pattern Association	Ammar Mohemmed, Stefan Schliebs, Nikola Kasabov
15:30-17:30	A Novel Neural Network for Solving Singular Nonlinear Convex Optimization Problems	Lijun Liu, Rendong Ge, Pengyuan Gao
15:30-17:30	Introducing Reordering Algorithms to Classic Well-known Ensembles to Improve Their Performance	Joaquín Torres-Sospedra, Carlos Hernández-Espinosa, Mercedes Fernández-Redondo
15:30-17:30	Nonlinear Nearest Subspace Classifier	Li Zhang, Wei-Da Zhou, Bing Liu
15:30-17:30	A Novel Framework Based on Trace Norm Minimization for Audio Event Detection	Ziqiang Shi, Jiqing Han, Tieran Zheng
15:30-17:30	Making Image to Class Distance Comparable	Deyuan Zhang, Bingquan Liu, Chengjie Sun, Xiaolong Wang
15:30-17:30	Co-clustering for Binary Data with Maximum Modularity	Lazhar Labiod, Mohamed Nadif
15:30-17:30	Induction of the Common-sense Hierarchies in Lexical Data	Julian Szymański, Włodzisław Duch
15:30-17:30	A Novel Synthetic Minority Oversampling Technique for Imbalanced Data Set Learning	Sukarna Barua, Md. Monirul Islam, Kazuyuki Murase
15:30-17:30	An Evolutionary Fuzzy Clustering with Minkowski Distances	Vivek Srivastava, Bipin K Tripathi, Vinay K Pathak
15:30-17:30	Sparse Coding Image Denoising Based on Saliency Map Weight	Haohua Zhao, Liqing Zhang
15:30-17:30	Fast Growing Self Organizing Map for Text Clustering	Sumith Matharage, Daminda Alahakoon, Jayantha Rajapakse, Pin Huang
15:30-17:30	Introducing a Novel Data Management Approach for Distributed Large Scale Data Processing In Future Computer Clouds	Amir H. Basirat, Asad I. Khan

15:30-17:30	An Approach to Distance Estimation with Stereo Vision Using Address-Event-Representation	D. M. M. Jesus, J. F. Angel, P. V. Rafael, L. T. M. Ramon, C. E. Elena, L. B. Alejandro, J. M. Gabriel, M. E. Arturo
15:30-17:30	Classification of Multi-spike Trains and Its Application in Detecting Task Relevant Neural Cliques	Fanxing Hu, Bao-Ming Li, Hui Wei
15:30-17:30	Modulations of Electric Organ Discharge and Representation of The Modulations on Electroreceptors	Kazuhisa Fujita
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15:30-17:30	Enhanced Discrimination of Face Orientation Based on Gabor	Hyun Ah Song, Sung-do Choi, Soo-Young Lee
15:30-17:30	Conflict Resolution Based Global Search Operators for Long Protein Structures Prediction	Md Kamrul Islam, Madhu Chetty, and Manzur Murshed
15:30-17:30	Comparison Between the Applications of Fragment-based and Vertex-based GPU Approaches in K-Means Clustering of Time Series Gene Expression Data	Yau-King Lam, Wuchao Situ, P.W.M. Tsang, Chi-Sing Leung, Yi Xiao
15:30-17:30	EEG-based Emotion Recognition Using Frequency Domain Features and Support Vector Machines	Xiao-Wei Wang, Dan Nie, Bao-Liang Lu
15:30-17:30	Research of EEG from Patients with Temporal Lobe Epilepsy on Causal Analysis of Directional Transfer Functions	Zhi-Jun Qiu, Hong-Yan Zhang, Xin Tian
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15:30-17:30	Person Identification using Electroencephalographic Signals Evoked by Visual Stimuli	Jia-Ping Lin, Yong-Sheng Chen, Li-Fen Chen
15:30-17:30	Medial Axis for 3D Shape Representation	Wei Qiu and Ko Sakai
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15:30-17:30	Efficient Semantic Kernel-based Text Classification Using Matching Pursuit KFDA	Qing Zhang, Jianwu Li, Zhiping Zhang
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15:30-17:30	Gait Cues	S.M.Emdad Hossain, Girija Chetty

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