

**SoCPaR 2015 Technical Program  
Friday, November 13th**

	<b>Room 511</b>	<b>Room 524</b>
<b>13:30-13:45</b>	<b>Opening</b>	
<b>13:50-15:30</b>	<b>Session A1: Neural Networks Chair: Kei Ohnishi</b>	<b>Session B1: Classification and Clustering Chair: Hideyuki Takagi</b>
13:50-14:10	Neural Potential Learning for Tweets Classification and Interpretation <i>Ryozo Kitajima, Ryotaro Kamimura, Osamu Uchida and Fujio Toriumi</i>	Hidden Topics Modeling Approach for Review Quality Prediction and Classification <i>Hoan Tran Quoc, Hideya Ochiai and Hiroshi Esaki</i>
14:10-14:30	Inducing Awareness for Learners through Visualizing Mutual Evaluation Data by a Self-Organizing Map <i>Yuta Ueki and Kei Ohnishi</i>	Clustering of Moving Vectors for Evolutionary Computation <i>Jun Yu and Hideyuki Takagi</i>
14:30-14:50	Visualizing Extracted Feature by Deep Learning in P300 Discrimination Task <i>Koki Kawasaki, Tomohiro Yoshikawa and Takeshi Furuhashi</i>	Detecting Spliced Face in a Group Photo using PCA <i>Divya S Vidyadharan and Sabu M. Thampi</i>
14:50-15:10	Biography Commercial Serial Crime Analysis Using Enhanced Dynamic Neural <i>Anahita Ghazvini, Siti Norul Huda Sheikh Abdullah, Md Nawawi Junoh, Zainal Abidin Bin Kasim and Mohd Zakree Bin Ahmad Nazri</i>	Ward Method of Hierarchical Clustering for Non-Euclidean Similarity Measures <i>Sadaaki Miyamoto, Ryosuke Abe, Yasunori Endo and Jun-Ichi Takeshita</i>
15:10-15:30	Predicting the Success of Bank Telemarketing using Deep Convolutional Neural <i>Kee-Hoon Kim, Chang-Seok Lee, Sang-Muk Jo and Sung-Bae Cho</i>	Improving the Performance of Projection-based Cancelable Fingerprint Template Method <i>Tohari Ahmad, Doni Pambudi and Tsuyoshi Usagawa</i>
15:30-15:45	Break	
<b>15:45-17:45</b>	<b>Session A2: Machine Learning Chair: Sung-Bae Cho</b>	<b>Session B2: Feature Processing Chair: Satoshi Ono</b>
15:45-16:05	A Group Emotion Control System based on Reinforcement Learning <i>Kee-Hoon Kim and Sung-Bae Cho</i>	The Effect of Using Super-resolution to Improve Feature Extraction and Registration of low Resolution Images in Sensor Networks <i>Wai Chong Chia, Lee Seng Yeong, Sue Inn Ch'Ng and Yoke Lun Kam</i>
16:05-16:25	Predicting Group Emotion in Kindergarten Classes by Modular Bayesian Networks <i>Jun-Ho Kim and Sung-Bae Cho</i>	Agent-based Two-dimensional Barcode Decoding Robust against Non-uniform Geometric <i>Kazuya Nakamura, Hiroshi Kawasaki and Satoshi Ono</i>
16:25-16:45	Strategies for Determining Effective Step Size of the Backpropagation Algorithm for On-Line Learning <i>Yuya Kaneda, Qiangfu Zhao, Yong Liu and Pei Yan</i>	Facial Action Units Detection by Robust Temporal Features <i>Prarinya Siritanawan and Kazunori Kotani</i>
16:45-17:05	A Co-learning System for Humans and Machines <i>Takaya Ogiso, Koichiro Yamauchi, Norio Isii and Yuri Suzuki</i>	Face Sketch Recognition Using Local Invariant Features <i>Alaa Tharwat, Hani Mahdi, Adel El Hennawy and Aboul Ella Hassanien</i>
17:05-17:25	Preliminary Study on QR Code Detection using HOG and AdaBoost <i>Yih-Lon Lin and Chung-Ming Sung</i>	Automatic Generation of GUI for Smartphone IME by Classifying User Behavior Patterns <i>Sang-Muk Jo and Sung-Bae Cho</i>
17:25-17:45		Automated Surface Defect Inspection System for Capacitive Touch Sensor <i>Yu-Min Chiang, Yih-Lon Lin and Wei-Hong Chien</i>
18:15 -	<b>Reception (Qiaofu Chinese Restaurant)</b>	

## Saturday, November 14th

	Room 511	Room 524
<b>09:30-10:50</b>	<b>Session A3: Swarm Intelligence</b> <b>Chair: Koji Kinoshita</b>	<b>Session B3: Security and Safety I</b> <b>Chair: Aboul Ella Hassanien</b>
09:30-09:50	An Effective AIS-Based Model for Frequency Assignment in Mobile Communication <i>Saiful Izwan Suliman, Graham Kendall and Ismail Musirin</i>	Image Encryption Scheme for Secure Digital Images Based on 3D Cat Map and Turing <i>Nehal A. Mohamed, Alaa Zaghloul, Mostafa A. El-Azeim and Ahmed A. El-Rahiem</i>
09:50-10:10	Solving the Obstacle Neutralization Problem Using Swarm Intelligence Algorithms <i>Ramazan Algin and Ali Fuat Alkaya</i>	Integer Wavelet Transform for Thermal Image Authentication <i>Sara Yassen, Tarek Gaber and Aboul Ella Hassanien</i>
10:10-10:30	Estimation of Inverse Model by PSO and Simultaneous Perturbation Method <i>Koji Kinoshita</i>	Hybrid Technique for Steganography Based on DNA with N-Bits Binary Coding Rule <i>Ghada Hamed, Mohammed Marey, Safaa Amin El-Sayed and Mohamed Fahmy Tolba</i>
10:30-10:50	Stream-based Particle Swarm Optimization for Data Migration Decision <i>Qiuchen Cheng, Kun Ma, Bo Yang</i>	FTIP: a Tool for an Image Plagiarism Detection <i>Petr Hurtik and Petra Hodakova</i>
10:50-11:05	Break	
<b>11:05-12:25</b>	<b>Session A4: Fuzzy and Rough Systems</b> <b>Chair: Layth Sliman</b>	<b>Session B4: Object Detection and Recognition I</b> <b>Chair: Ajth Abraham</b>
11:05-11:25	Automated Generation of Fuzzy Rules from Large-scale Network Traffic Analysis in Digital Forensics Investigations <i>Andrii Shalaginov and Katrin Franke</i>	Jewelry Stones Classification: Case Study <i>Petr Hurtik, Marek Vajgl and Michal Burda</i>
11:25-11:45	Soft Local Binary Patterns <i>Ran Li, Xuezhen Li and Takio Kurita</i>	Leaf Shape Identification of Medicinal Leaves using Curvilinear Shape Descriptor <i>Yeni Herdiyeni, Dicky Iqbal Lubis and Stéphane Douady</i>
11:45-12:05	Fingerprint Fuzzy Vault Chaff Point Generation by Squares Method <i>Hachemi Nabil Dellys, Noussaiba Benadjimi, Meriem Romaiassa Boubakeur, Layth Sliman and Fathelalem Ali</i>	Nitrogen Estimation of Paddy Based on Leaf Reflectance Using Artificial Neural Network <i>Whina Ayu Lestari, Yeni Herdiyeni, Lilik Budi Prasetyo, Wahyudi Hasbi, Kohei Arai and Hiroshi Okumura</i>
12:05-12:25	Patch based inpainting method based on the F1-transform <i>Pavel Vlašánek and Irina Perfilieva</i>	
12:25-13:45	Lunch	
<b>13:45-15:05</b>	<b>Session A5: Special Session on Incremental Machine Learning</b> <b>Chair: Guénaél Cabanes</b>	<b>Session B5: Security and Safety II</b> <b>Chair: Sebastian Basterrech</b>
13:45-14:05	Vertical Collaborative Clustering using Generative Topographic Maps <i>Jérémie Sublime, Nistor Grozavu, Younès Bennani and Antoine Cornuéjols</i>	A Study on Fuzzy Clustering-based k-anonymization for Privacy Preserving Crowd Movement Analysis with Face Recognition <i>Katsuhiro Honda, Masahiro Omori, Seiki Ubukata and Akira Notsu</i>
14:05-14:25	Incremental Learning of Reach-to-Grasp Behavior: A PSO-based Inverse Optimal Control Approach <i>Haitham El-Hussieny, Samy F. M. Assal, A.A. Abouelsoud, Said M. Megahed and Tsukasa Ogasawara</i>	Sensitivity Analysis of Echo State Networks for Forecasting Pseudo-Periodic Time Series <i>Sebastián Basterrech, Gerardo Rubino and Václav Snášel</i>
14:25-14:45	Adaptive Threshold Triggering of GPS for Long-term Tracking in WSN <i>Llewyn Salt, Branislav Kusy and Raja Jurdak</i>	Quantitative Network Analysis for Passenger Pattern Recognition <i>Martin Zsifkovits, Marian Sorin Nistor and Silja Meyer-Nieberg</i>
14:45-15:05		Robust Vehicle Tracking and Detection from UAVs <i>Xiyan Chen and Qinggang Meng</i>
15:05-15:20	Break	
<b>15:20-16:20</b>	Plenary 1: Václav Snášel "Geometrical Approach to Big Data" (Chair: Ajith Abraham)	
<b>16:20-17:20</b>	Plenary 2: Mengjie Zhang "Recent Developments in Evolutionary Computation for Pattern Recognition" (Chair: Mario Köppen)	
18:00 -	<b>Optional Banquet (Za-Watami IZAKAYA Style Bar &amp; Restaurant)</b>	

**Sunday, November 15th**

	<b>Room 511</b>	<b>Room 524</b>
<b>09:00-10:20</b>	<b>Session A6: Advanced Soft Computing</b> <b>Chair: Munehiro Namba</b>	<b>Session B6: Object Detection and Recognition II</b> <b>Chair: Wladyslaw Homenda</b>
09:00-09:20	Improving an Adaptive Differential Evolution Using Hill-Valley Detection <i>Tetsuyuki Takahama Tetsuyuki Takahama, Setsuko Sakai</i>	Evolutionary Multi-view Face Tracking on Pixel Replaced Image in Video Sequence <i>Junya Sato and Takuya Akashi</i>
09:20-09:40	Hardware-Oriented Succinct-Data-Structure based on Block-Size-Constrained Compression <i>Hasitha Waidyasooriya, Daisuke Ono and Masanori Hariyama</i>	Global, Local and Embedded Architectures for Multiclass Classification with Foreign Elements Rejection: an Overview <i>Wladyslaw Homenda and Agnieszka Jastrzebska</i>
09:40-10:00	An Adaptive Algorithm for Embedded Real-Time Point Cloud Ground Segmentation <i>Gilberto Antonio Marcon Dos Santos, Victor Terra Ferrao, Cassio Dener Noronha Vinhal and Gelson Da Cruz Junior</i>	Optimal Partial Filters of EEG Signals for Shared Control of Vehicle <i>Wongil Huh and Sung-Bae Cho</i>
10:00-10:20	A Recursive Estimation of Network State for Improving Probabilistic Caching <i>Munehiro Namba</i>	Image-based Fish Recognition <i>Takeshi Saitoh, Toshiki Shibata and Tsubasa Miyazono</i>
10:20-10:35	Break	
<b>10:35-11:55</b>	<b>Session A7: Next Generation Bio-Inspired Algorithms</b> <b>Chair: Nashwa El-Bendary</b>	<b>Session B7: Data Mining</b> <b>Chair: Kaori Yoshida</b>
10:35-10:55	A Wrapper Approach for Feature Selection Based on Swarm Optimization Algorithm Inspired from the Behavior of the Social-spider <i>Hossam Zawbaa, Eid Emary, Aboul Ella Hassanien and B. Parv</i>	Extraction of Latent Concepts from an Integrated Human Gene Database <i>Katsuhiko Murakami</i>
10:55-11:15	An Innovative Approach for Feature Selection Based on Chicken Swarm Optimization <i>Ahmed Hafez, Hossam Zawbaa, Eid Emary, Hamdi Mahmoud and Aboul Ella Hassanien</i>	An Integrated Approach for Multilingual Scene Text Detection <i>Wen-Hung Liao, Yi-Hsuan Liang and Yi-Chieh Wu</i>
11:15-11:35	Grey Wolf Optimization for One-Against-One Multi-class Support Vector Machines <i>Esraa Elhariri, Nashwa El-Bendary, Aboul Ella Hassanien and Ajith Abraham</i>	Video Summarization of Timestamp Comments Videos based on Concept of Folksonomy <i>Wei-Lun Chen, Bo-Wen Hsieh and Jian-Hung Chen</i>
11:35-11:55	Water Quality Classification Approach based on Bio-inspired Gray Wolf Optimization <i>Asmaa Hashem Sweidan, Nashwa El-Bendary, Aboul Ella Hassanien, Osman Mohammed Hegazy and Abd El-Karim Mohamed</i>	MedLeaf: Mobile Biodiversity Informatics Tool for Mapping and Identifying Indonesian <i>Yeni Herdiyeni, Asep Rahmat Ginanjar, M. Rake Linggar Anggoro, Stéphane Douady and Ervival A.M. Zuhud</i>