The 10th International Conference on Genetic and Evolutionary Computing (ICGEC2016)
Fuzhou City, China, November 7-9, 2016

Conference Program

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<td>08:30-16:00</td>
<td>Registration (4F in Fujian Hall)</td>
<td>9:10 - 16:00Registration (4F in Fujian Hall)</td>
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<td>09:30-09:40</td>
<td>Opening Nanping Room (4F in Fujian Hall)</td>
<td>Keynote Speech (I) Prof. Alessandro Piva Nanping Room (4F in Fujian Hall)</td>
<td>Keynote Speech (III) Prof. Zhiyong Liu Nanping Room (4F in Fujian Hall)</td>
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<td>09:40-10:40</td>
<td>Keynote Speech (I) Prof. Alessandro Piva Nanping Room (4F in Fujian Hall)</td>
<td>Keynote Speech (II) Prof. Han-Chieh Chao Nanping Room (4F in Fujian Hall)</td>
<td>Keynote Speech (IV) Prof. Poki Chen Nanping Room (4F in Fujian Hall)</td>
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<td>10:40-11:00</td>
<td>Coffee Break (4F, Fujian Hall)</td>
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<td>11:00-12:00</td>
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<td>Lunch (1F, Dining Hall in Guibin Building)</td>
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<td>14:00-15:30</td>
<td>Session A The 2nd Conference Room (4F in Fujian Hall)</td>
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<td>18:00-20:00</td>
<td>Welcome Reception (1F, Dining Hall in Guibin Building)</td>
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Keynote Speech

**Keynote Speech (I):** Advances on Multimedia Forensics  
**Speaker:** Prof. Alessandro Piva, University of Florence, Italy.  
**Date:** November 7, 2016 (Monday)  
**Time:** 09:40-10:40  
**Room:** 4F, Nanping Room in Fujian Hall

**Keynote Speech (II):** IoT and Big Data Applications  
**Speaker:** Prof. Han-Chieh Chao, National Dong Hwa University, Taiwan.  
**Date:** November 7, 2016 (Monday)  
**Time:** 11:00-12:00  
**Room:** 4F, Nanping Room in Fujian Hall

**Keynote Speech (III):** Energy Efficiency for Cloud Computing and Data Centers  
**Speaker:** Prof. Zhiyong Liu, Institute of Computing Technology, Chinese Academy of Sciences, China.  
**Date:** November 8, 2016 (Tuesday)  
**Time:** 09:40-10:40  
**Room:** 4F, Nanping Room in Fujian Hall

**Keynote Speech (IV):** Intelligent Sensing: From Macroscopic to Microscopic Scale  
**Speaker:** Prof. Poki Chen, National Taiwan University of Science and Technology, Taiwan.  
**Date:** November 8, 2016 (Tuesday)  
**Time:** 11:00-12:00  
**Room:** 4F, Nanping Room in Fujian Hall
Paper Presentation

Session A: Optimization Models and Techniques with Engineering Applications

Date: November 7, 2016 (Monday)

Time: 14:00-15:30

Room: The 2nd Conference Room on 4F in Fujian Hall

Session Chairs: Prof. Mao-Hsiung Hung, Fujian University of Technology, China.
               Prof. Chia-Hung Wang, Fujian University of Technology, China.

(1) A Comprehensive Evaluation Model for Traffic Rule  
   Lin Xiao, Minqian Tang, Jeng-Shyang Pan

(2) Composite Probe and Signal Recovery of Compressed Sensing Microarray  
   Zhenhua Gan, Baoping Xiong, Fumin Zou, Yueming Gao, Min Du

(3) Certificateless Authentication Protocol for Wireless Body Area Network  
   Jian Shen, Shaohua Chang

(4) The Reliability and Economic Analysis on System Connection Mode  
   Chao-Fan Xie, Lin Xu, Lu-Xiong Xu

(5) Arena Simulation for Aviation Passenger Security-Check Systems  
   Chia-Hung Wang

(6) Simulation Model and Optimal Design for Call Center Staffing Problems  
   Chia-Hung Wang, Mao-Hsiung Hung
Paper Presentation

Session B: Knowledge-Based Intelligent Engineering and Its Applications

Date: November 7, 2016 (Monday)

Time: 15:50-17:20

Room: The 2nd Conference Room on 4F in Fujian Hall

Session Chairs: Prof. Jerry Chun-Wei Lin, Harbin Institute of Technology (Shenzhen), China.
Prof. Fumin Zou, Fujian University of Technology, China.

(1) On the Security of a Certificateless Searchable Public Key Encryption Scheme
   Tsu-Yang Wu, Fanya Meng, Chien-Min Chen, Jeng-Shyang Pan

(2) On the Study of Trading Strategies within Limited Arbitrage based on SVM
   Hui-Huang Tsai, Mu-En Wu, Wei-Ho Chung, Cheng-Yu Lu

(3) More Efficient Algorithms to Mine Skyline Frequent-Utility Patterns
   Jerry Chun-Wei Lin, Lu Yang, Philippe Fournier-Viger, Siddharth Dawar, Vikram Goyal, Ashish Sureka, Bay Vo

(4) Teaching Achievement Study of Creative Design Competitions
   Rui-Lin Lin

(5) A Study of Micro-Film Creation: Using the Inspirational Story of a Tomato Farm Micro-film
   Jing-Chen Xie

(6) Antlion Optimization Approach Based Segmentation for MRI Liver Images
   Abdalla Mostafa, Aboul Ella Hassanien, Mohamed Houseni, Naglaa Allam, Hesham Hefny, Pei-Wei Tsai

(7) Handwritten Arabic Manuscript Image Binarization using Sine Cosine Optimization Algorithm
   Mohamed Abd Elfattah, Sherihan Aboulenin, Aboul Ella Hassanien, Jeng-Shyang Pan
Paper Presentation

Session C: Recent Advances on Evolutionary Optimization Technologies
Date: November 8, 2016 (Tuesday)
Time: 14:00-15:30
Room: The 2nd Conference Room on 4F in Fujian Hall
Session Chairs: Prof. Hui Sun, Nanchang Institute of Technology, China.
Prof. Jia Zhao, Nanchang Institute of Technology, China.

(1) Research on Expressway Emergency Vehicle Allocation based on Improved Particle Swarm Optimization
   Lieyang Wu

(2) Local-learning and Reverse-learning Firefly Algorithm
   Zhifeng Xie, Jia Zhao, Hui Sun, Hui Wang, Kun Wang

(3) An Adaptive Approach for Community Detection Based on Chicken Swarm Optimization Algorithm
   Khaled Ahmed, Aboul Ella Hassanien, Ehab Ezzat, Pei-Wei Tsai

(4) Alzheimer's Disease Diagnosis based on Moth Flame Optimization
   Gehad Ismail Sayed, Aboul Ella Hassanien, Tamer M. Nassef, Jeng-Shyang Pan

(5) Curve Fitting Based on Neural Dynamics Optimization
   Baoping Xiong, Zhenhua Gan, Yuemin Gao, Min Du

(6) Compact Particle Swarm Optimization for Optimal Location of Base Station in Wireless Sensor Network
   Jeng-Shyang Pan, Thi-Kien Dao, Trong-The Nguyen, Tien-Szu Pan
Paper Presentation

Session D: Swarm Intelligence and Its Applications
Date: November 8, 2016 (Tuesday)
Time: 15:50-17:20
Room: The 2nd Conference Room on 4F in Fujian Hall
Session Chairs: Prof. Pei-Wei Tsai, Fujian University of Technology, China.
Prof. Jian-Hua Liu, Fujian University of Technology, China.

(1) Using Parallel Compact Evolutionary Algorithm for Optimizing Ontology Alignment
    Xingsi Xue, Pei-Wei Tsai, Li-Li Zhang

(2) Robot Path Planning Optimization Based on Multiobjective Grey Wolf Optimizer
    Pei-Wei Tsai, Trong-The Nguyen, Thi-Kien Dao

(3) Enhanced Diversity Herds Grey Wolf Optimizer for Optimal Area Coverage in Wireless Sensor Networks
    Chin-Shiuh Shieh, Trong-The Nguyen, Hung-Yu Wang, Thi-Kien Dao

(4) Utilizing IABC and Time Series Model in Investigating the Influence of Adding Monitoring Indicator for Foreign Exchange Rate Forecasting
    Pei-Wei Tsai, Wen-Ling Wang, Jui-Fang Chang, Zhi-Sheng Chen, Yong-Hui Zhang

(5) A Fully-Automated Zebra Animal Identification Approach Based on SIFT Features
    Alaa Tharwat, Tarek Gaber, Aboul Ella Hassanien, Gerald Schaefer, Jeng-Shyang Pan

(6) Breast Cancer Diagnosis Approach Based on Meta-heuristic Optimization Algorithm Inspired by the Bubble-net Hunting Strategy of Whales
    Gehad Ismail Sayed, Ashraf Darwish, Aboul Ella Hassanien, Jeng-Shyang Pan
Paper Presentation

**Session E: Advanced Multimedia Information and Image Processing**

**Date:** November 9, 2016 (Wednesday)

**Time:** 09:40-10:40

**Room:** The 2nd Conference Room on 4F in Fujian Hall

**Session Chairs:** Prof. Hiromitsu Hama, Osaka City University, Japan.
Prof. Thi Thi Zin, University of Miyazaki, Japan.

(1) Analysing the Effect of Disaster  
*Thida Aung, Myint Myint Sein*

(2) Deep Learning Model for Integration of Clustering with Ranking in Social Networks  
*Thi Thi Zin, Pyke Tin, Hiromitsu Hama*

(3) An Automatic Target Tracking System Based on Local and Global Features  
*Thi Thi Zin, Kenshiro Yamada*

(4) Optimal Route Finding for Weak Infrastructure Road Network  
*K-zin Phyo, Myint Myint Sein*

(5) Observation of Unattended or Removed Object in Public Area for Security and Monitoring System  
*Baby Htun, Myint Myint Sein*

(6) Apply Image Technology to River Level Estimation  
*Ming-Tsung Yeh, Yun-Jhong Hu, Chien-Wen Lai, Chao-Hsing Hsu, Yi-Nung Chung*
Paper Presentation

Session F: Advanced Multimedia Information and Image Processing

Date: November 9, 2016 (Wednesday)

Time: 11:00-12:00

Room: The 2nd Conference Room on 4F in Fujian Hall

Session Chairs: Prof. Thi Thi Zin, University of Miyazaki, Japan.
               Prof. Hiromitsu Hama, Osaka City University, Japan.

(1) Myanmar–English Machine Translation Model
    KhinThandar Nwet, Khin Mar Soe

(2) CRF based Named Entity Recognition for Myanmar Language
    Hsu Myat Mo, Khin Thandar Nwet, Khin Mar Soe

(3) Back-propagation Neural Network Approach to Myanmar Part-of-Speech Tagging
    Hay Mar Hnin, Win Pa Pa, Ye Kyaw Thu

(4) Efficient Algorithm for Finding Aggregate Nearest Place between Two Users
    Su Nandar Aung, Myint Myint Sein

(5) Hierarchical PSO Clustering on MapReduce for Scalable Privacy Preservation in Big Data
    Ei Nyein Chan Wai, Pei-Wei Tsai, Jeng-Shyang Pan