7th Asian Conference on Intelligent Information and Database Systems

23-25 March 2015
Bali, Indonesia

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Wrocław University of Technology

AITEOR 2015

Special Session on Artificial Intelligent Techniques and its application in Engineering and Operational Research

at the 7th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2015)

Bali, Indonesia, March 25-25, 2015
Conference website: http://www.aciids.org

Special Session Organizers

Pandian Vasant
Universiti Teknologi PETRONAS, Malaysia
E-mail: pvasant@gmail.com

Vo Ngoc Dieu
HCMC University of Technology, Vietnam
E-mail: vndieu@gmail.com

Irraivan Elamvazuthi
Universiti Teknologi PETRONAS, Malaysia
E-mail: elamvazuthi.irraivan@gmail.com

Mohammad Abdullah-Al-Wadud
King Saud University, Saudi Arabia
E-mail: wadud@ieee.org

Ahamed Khan
Universiti Selangor, Malaysia
E-mail: khan@unisel.edu.my

Objectives and topics

Artificial intelligence techniques have attracted many research scientists, decision makers and practicing researchers in recent years as powerful computational intelligent techniques, for solving unlimited number of complex real-world problems particularly related to research areas of engineering and operational research. Under the unpredictable and turbulence environment, classical and traditional approaches are partially able to obtain a complete solution with certain degree of satisfaction for the application problems. Therefore, new artificial intelligence methods are required to handle these issues significantly and holistically. The artificial intelligence methods are generic, flexible, robust, and versatile framework for solving complex problems for the global problems in engineering and operational research and its applications. The scope of AITEOR 2015 includes, but is not limited to the following topics:

- Cockroach swarm optimization
- Open source model development algorithm
- Teaching and Learning Based algorithm
- One rank cuckoo search algorithm
- Firefly Algorithm
- Bat algorithm
- Robust optimization
- Chaos algorithm
- Fuzzy multivariate analysis
- Artificial neural network
- Simulated annealing & Tabu search
- Evolutionary computation
- Particle swarm optimization
- Hybrid optimization

- Classical optimization methods
- Non-linear programming
- Multi-objective optimization
- Wavelet transform
- Meta-heuristic algorithms
- Uncertainty & Probabilistic reasoning
- Decision making techniques
- Knowledge-based techniques
- Machine learning
- Grey wolf algorithm
- Wind driven optimization
- Artificial bee colony.

Applications

- Financial mathematics & economics
- Power system
- Control system, robotic & mechatronic
- Software engineering
- Information & Production systems
- Bio-engineering & Bio-medical systems
- High-performance valves
- Kriging
- Economic dispatch
- Distributed networks & Distributed System
- Wireless sensor networks
- Bifurcation
- Intelligent signal Imaging
- Supply chain management
- Vehicle routing problems
- Scheduling & Production planning
- Flexible manufacturing
- Oil & gas industrial problems
- Computer and Information Systems
- Analysis of economics and corporations
- Multiple object tracking
- Energy-efficiency
- Information retrieval
- Image processing & Computer vision
- Expert systems & Knowledge-based systems
- Big data, wearable computing, cloud computing, Internet of things(IoT) and other emerging paradigms and systems
- Optimal power flow, optimal reactive power dispatch
- Unit commitment
- Hydrothermal scheduling,
- Optimal placement of FACTS devices
- Electrical, Chemical, Petroleum & Mechanical engineering

Important dates (Extended)

Submission of papers: **15 October 2014**
Notification of acceptance: **01 December 2014**
Camera-ready papers: **15 December 2014**
Registration & payment: **31 December 2014**
Conference date: **23-25 March 2015**

Proposed Session Program Committee (to be invited)

Gerhard-Wilhelm Weber, METU, Turkey
Junzo Watada, Waseda University, Japan
Kwon-Hee Lee, Dong-A University, South Korea
Hindriyanto Dwi Purnomo, Satya Wacana Christian University, Indonesia
Charles Mbohwa, University of Johannesburg, South Africa
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Utku Kose, Usak University, Turkey
Nuno Pombo, University of Beira Interior, Portugal
Kusuma Soonpracha, Kasetsart University, Thailand
Armin Milani, Islamic Azad University, Iran

Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track: ***AITEOR 2015: Special Session on Artificial Intelligent Techniques and its application in Engineering and Operational Research.***

https://www.easychair.org/conferences/?conf=aciids2015

Authors are invited to submit original previously unpublished research papers written in English, of up to 10 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at Springer's web site. Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the AITEOR 2015 International Program Committee. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, dblp, Google Scholar, Scopus, etc.).