

Invitation

On behalf of the local organizing committee we invite you to attend the 17th ISAP 2013 Conference. The "Intelligent Systems Application to Power Systems" continues the tradition of preceding conferences on topics selected since "Expert Systems Application to Power Systems" (ESAP) in 1998 and "International Forum on Applications of Neural Network to Power Systems" (ANNPS). It is specifically dedicated to discuss innovative solutions in the area of operation, control, planning and maintenance of large interconnected but also isolated or weakly interconnected power systems, as well as their particular components. ISAP2013 focuses on power systems operating in smart grid environment, renewable energy, but also other subjects of interest in modern power systems. The applications of novel software technologies are within the special scope of the conference as well as intelligent system approaches achieved with the conventional programming. **IEEE has been co-sponsoring at least the last three ISAP conferences and the technical co-sponsorship is sought for ISAP 2013.**

The conference will be held in Tokyo, Japan, one of the most energetic cities in the world. A city that generates diverse currents on business, technologies, art and music, fashion goods, and cuisine.

The Conference will provide opportunities for tutorials on the afternoon of July 1, 2013, covering two areas:

- **Meta-heuristic optimization applied to the smart grids**
- **Data mining techniques for smart grids**



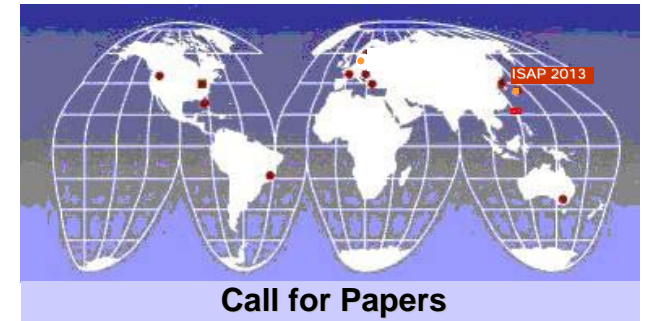
Location

The conference will be held in the center of Tokyo, the capital of Japan. It is one of the most populated cities in the world that has international activities in a number of aspects like *Creative Tokyo Project*. The conference venue is located at Surugadai Campus of Meiji University, which is very close to JR and Tokyo Metro Ochanomizu Stations. The participants outside Japan can reach Tokyo by plane from many cities in the world. You can make a choice between two airports in Tokyo, i.e., Tokyo-Narita and Tokyo-Haneda Airports. Tokyo-Narita Airport is situated 66 km east of Tokyo while Tokyo-Haneda Airport is very close to the center of Tokyo. If you use Tokyo-Narita Airport, you can take the unlimited express trains of JR or Keisei Lines to go to the center of Tokyo easily. It offers a variety of accommodation options, traditional and international cuisine restaurants, souvenir shops, etc. As *two-days trips*, you can visit the sight-seeing spots such as Kamakura, Hakone and Nikko from Tokyo.



Student Participation

Students working on research subjects consistent with the theme of the conference are highly encouraged to attend the ISAP and present their works. The organizers will be actively pursuing a program to provide a reduced rate to a number of students.



17th International Conference on Intelligent System Applications to Power Systems

July 1-4, 2013
Tokyo, Japan

Organized by



Meiji University



Important Dates

January 20, 2013	Submission of full paper
February 20, 2013	Author notification of acceptance
March 10, 2013	
April 20, 2013	Deadline for final manuscripts and early registration
July 1 to 4, 2013	Conference

Official Language

The working language of the Conference will be English.

Conference Secretariat

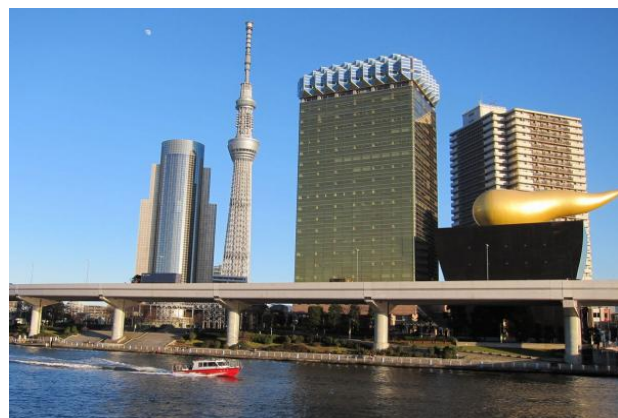
ISAP2013 Conference Secretariat
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Dept. of Electronics and Bioinformatics
Meiji University
Mailing address: 1-1-1 Higashimita, Tama-ku,
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E-mail: isap2013.tokyo@gmail.com

Conference Website

<http://www.isc.meiji.ac.jp/~hmori/isap2013/>

To the Authors

The authors are invited to submit an electronic file of the full paper in IEEE PES standard double column format not exceeding 6 pages until ~~January 20, 2013~~, to the conference website. **February 20, 2013**



Preferential Subjects

The Conference welcomes papers on Intelligent Systems Application to Electric Power and Energy Systems (Generation, Transmission, Distribution, Markets, Operations, and Planning) with preference to :

Modern Grid Operation and Control

- Smart grids
- Automated metering applications
- Demand-side participation and response
- Isolated and weakly interconnected power systems
- Microgrids and small island systems
- Self-healing grids and active distribution automation
- Wide area system monitoring and control
- Fault detection and diagnostics
- Monitoring and state analysis of power system components
- Protection

Electric Power and Energy System Analysis, Uncertainty and Risk Assessment

- Power system security, reliability and adequacy
- Power system economics and pricing
- State and load estimation
- Load, price and renewable generation output forecasting
- Grid integration of renewables including solar and wind
- Optimal charging of EV and energy storage systems
- Complex interactive cyber-physical systems
- Decision-making in electricity markets, energy derivatives, load shedding, etc.
- Probabilistic optimization under uncertain environment
- Asset management and real options

Intelligent System Techniques including but not limited to:

- Intelligent estimation and classification techniques including neural nets, fuzzy systems, data mining, decision trees, kernel machines, etc.
- Knowledge based systems including rule-based systems expert systems, model-based reasoning
- Advanced optimization techniques including GA, TS, PSO, ACO, MVO (Mean-Variance Optimization), immune systems, and bacterial foraging
- Multi-agent systems, evolutionary intelligent agents, adaptive distributed computing and control
- Hybrid intelligent systems
- Computational neuroscience
- Game theory
- Molecular and quantum computing
- Bayesian models and networks
- Ensemble learning models
- Distributed/parallel algorithms

Conference Chair

Chair H. Mori (Japan)

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