WSOM 2011

Aalto University
School of Science
and Technology

8th WORKSHOP ON SELF-ORGANIZING MAPS

13-15 JUNE 2011, ESPOO, FINLAND

Aalto University School of Science and Technology and *Dipoli Conference Center*

http://www.cis.hut.fi/wsom2011

WSOM 2011

WSOM 2011 will bring together researchers and practitioners in the field of self-organizing systems, with a particular emphasis on the self-organizing maps. It will highlight key advances in these and closely related fields. WSOM 2011 is the eighth conference in a series of bi-annual international conferences started with WSOM'97 in Helsinki.

The event will be co-located with the **ICANN 2011** conference that will be organized from 14th to 17th of June, 2011. Conference programmes, registrations, and fees will be coordinated.

Theory and methods

We expect contributions related to the theoretical and methodological aspects of the self-organizing map including:
- Data analysis and visualization with a special topic of modeling dynamic phenomena
- Various mathematical approaches including information theory and mathematical statistics
- Software and hardware implementations
- Architectural solutions including hierarchical and growing networks, ensemble models and special metrics
- Neuro-cognitive studies that compare modeling and empirical results at different levels

Applications

We call for scientific and practice-oriented papers that describe the use of self-organizing maps with its variants in different application areas including but not limited to:

Data mining, Pattern recognition, Signal processing, Knowledge management, Time series processing, Industrial applications, Bioinformatics, Biomedical applications, Telecommunications, Financial analysis, Cognitive modeling, Robotics and intelligent systems, Image processing and vision, Speech processing, Language modeling, Text and document analysis

Important dates

Submission of full papers:
January 14, 2011
Notification of acceptance:
March 1, 2011
Camera-ready paper and author registration:
April 1, 2011
Advance registration before:
April 15, 2011

Publication

Submitted papers should be 8-10 pages in the Lecture Notes in Computer Science format. Accepted papers will be published in a collected volume by Springer in Lecture Notes in Computer Science, www.springer.com/lncs. Registered authors will receive a harcopy volume and the proceedings will be available online via SpringerLink.

Confirmed Plenary Speakers

Barbara Hammer, Bielefeld University:
Topographic mapping for dissimilarity data

Teuvo Kohonen, Academy of Finland:
Linguistic roles of Chinese words displayed in self-organizing maps

Honorary chair	**TEUVO KOHONEN** Academy of Finland	
General chair	**TIMO HONKELA** Aalto University	
Program chair	**JORMA LAAKSONEN** Aalto University	
Local chair	**OLLI SIMULA** Aalto University	
Publicity chair	**JAAKKO PELTONEN** Aalto University	