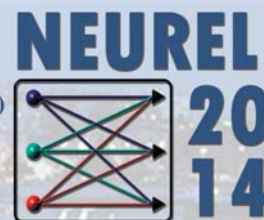




Call for Papers

2014 12th Symposium on Neural Network Applications in Electrical Engineering (NEUREL)
November 25–27, 2014, Belgrade, Serbia
<http://www.etf.rs> <http://neurel.etf.rs>



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12th Symposium NEUREL 2014

Organized by IEEE Serbia and Montenegro (S&M) CAS-SP Chair, and IEEE S&M Section.
In cooperation with the School of Electrical Engineering, University of Belgrade, Serbia,
and Telecommunications Society, Serbia

Supported by: Serbian Ministry of Education, Science and Technological Development,
and CAS-SP Section and AI Section of the ETRAN Society

The NEUREL Symposia started in 1990, as biannual scientific meetings and they cover all aspects of artificial neural networks (NNs) and fuzzy systems, from their theoretical foundations to applications. The main topics, including but not limited to the following technical areas, are invited:

1. Algorithms and models

- 1.1 Learning methods
- 1.2 Cognitive sciences
- 1.3 Genetic algorithms
- 1.4 Deep and machine learning
- 1.5 Computational neuroscience
- 1.6 Bayesian models
- 1.7 Fuzzy systems
- 1.8 Bio-inspired systems
- 1.9 Complex systems and chaos
- 1.10 Fractals and multifractals

2. Realizations

- 2.1 Feedforward networks
- 2.2 Recurrent neural networks
- 2.3 Self-organizing networks
- 2.4 Cellular neural networks
- 2.5 Sensor networks
- 2.6 Molecular and quantum computing
- 2.7 Fuzzy neural networks
- 2.8 Optoelectronic neural networks
- 2.9 Implementations in mobile devices
- 2.10 Brain-machine interfaces

3. Applications

- 3.1 Signal and image processing
- 3.2 Robotics and control systems
- 3.3 Measurement and intelligent devices
- 3.4 Data, text, multimedia mining
- 3.5 Communications and multimedia
- 3.6 Feature extraction and retrieval
- 3.7 Pattern recognition and classification
- 3.8 Bioinformatics
- 3.9 Time series forecasting
- 3.10 Power systems control

The symposium also welcomes contributions in statistical learning algorithms, text-web analysis, biological and machine vision, and man-machine interfaces. Topics in speech, image and signal processing, classification, and process control, which are not strictly related to NNs, are of interest too.

Submission procedure: Prospective authors are invited to submit camera-ready papers in electronic form (PDF or MS Word formats) describing original research and development work related to the Symposium's topics. Papers should be prepared according to the IEEE template (http://www.ieee.org/documents/trans_jour.docx). Papers should be written in English and should not exceed six pages, including figures, tables, and references. Four pages are encouraged. Papers should include a short one-paragraph abstract briefly describing the subject and contribution, followed by the list of up to five keywords.

The accompanying pre-registration form should include:

- Title of the paper including author's name(s)
- Technical area (topics 1–3 and subtopics 1.1–3.10)
- Corresponding author's name, postal and e-mail addresses, and phone/fax numbers
- Preferred mode of presentation (oral or poster).

Accepted papers will be published in the Proceedings of the NEUREL-2014 (hard copy and electronic version), being under the IEEE Conference Publication Program (IEEE Xplore).

Selected papers will be published in a special issue of the Journal of Automatic Control

Important dates

Proposals for special sessions, tutorials, and plenary talks	May 25, 2014
Paper submission	August 20, 2014
Notification of acceptance	October 12, 2014
Camera-ready papers	October 20, 2014
Conference date	November 25–27, 2014

NEUREL 2014 Conference Secretariat

School of Electrical Engineering, University of Belgrade
Bulevar kralja Aleksandra 73, PO Box 35-54, 11120 Belgrade, Serbia
Phone: +381-11 {3248-464; 3370-074}, Fax: +381-11 3248-681, E-mail: danka@etf.rs



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