



ANNPR 2012

5th Workshop on Artificial Neural Networks in Pattern Recognition

September 17-19, 2012

Trento | Italy

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Call for Papers

We are pleased to announce that the 5th INNS IAPR TC3 GIRPR International Workshop on Artificial Neural Networks in Pattern Recognition will be held at Fondazione Bruno Kessler (FBK), Trento, Italy. ANNPR 2012 follows the success of ANNPR 2003 (Florence), ANNPR 2006 (Ulm), ANNPR 2008 (Paris), and ANNPR 2010 (Cairo). This 5th ANNPR workshop will act as a major forum for international researchers and practitioners working in all areas of neural network- and machine learning-based pattern recognition to present and discuss the latest research, results, and ideas in these areas.

This year the workshop received the endorsement from the International Neural Network Society (INNS), from the International Association for Pattern Recognition (IAPR), from the Technical Committees 3 (TC3) of IAPR ("Neural Networks & Computational Intelligence"), and from GIRPR (Gruppo Italiano Ricercatori in Pattern Recognition).

Papers are solicited dealing with neural networks, machine learning and pattern recognition which emphasize methodological issues possibly arising in applications.

Topics

Methodological issues

- Supervised learning
- Unsupervised learning
- Combination of supervised and unsupervised learning
- Feedforward networks and kernel machines
- Recurrent and competitive neural networks
- Hierarchical modular architectures and hybrid systems
- Combination of neural networks and Hidden Markov models
- Multiple classifier systems and ensemble methods
- Probabilistic graphical models
- Kernel methods
- Deep architectures

Applications in Pattern Recognition

- Image processing and segmentation
- Sensor-fusion and multi-modal processing
- Feature extraction, dimension reduction
- Clustering and vector quantization
- Speech and speaker recognition
- Data, text, and web mining
- Bioinformatics/Cheminformatics

Paper Submission

Potential participants should submit a paper describing their work in one of the areas described above. Proceedings will be published as a volume in the Springer LNAI, maximum paper length is 12 pages in LNCS/LNAI format.

Instructions for authors, LaTeX templates, etc. are available at the (Springer LNCS/LNAI web-site). Submission of a paper constitutes a commitment that, if accepted, one or more authors will attend the workshop. Electronic submission in camera-ready format is required. On-line submission via EasyChair will be made available on this web-site of the workshop (<http://annpr2012.fbk.eu>) timely.

IAPR Invited Speakers

Confirmed speakers to date are (in alphabetical order; talk titles are preliminary):

- **Marco Gori** (Siena, Italy): "Developmental Vision Agents"
- **Nikola (Nik) Kasabov** (Auckland, New Zealand): "Evolving spiking neural networks for spatio -and spectro- temporal pattern recognition"
- **Günther Palm** (Ulm, Germany): title to be announced

Important Dates

May 15, 2012 - Extended Deadline for electronic paper submission

June 3, 2012 - Notification of paper acceptance

June 17, 2012 - Deadline for camera-ready submission

June 17, 2012 - Deadline of early registration

Contact

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