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International Neural Network Society (www.inns.org)



WIRN 2017 – CALL FOR PAPERS

The Italian Workshop on Neural Networks (WIRN) is the annual conference of the Italian Society of Neural Networks (SIREN). The conference is organized, since 1989, in co-operation with the International Institute for Advanced Scientific Studies (IIASS) of Vietri S/M (Italy), and is a traditional event devoted to the discussion of novelties and innovations related to field of Artificial Neural Networks. In recent years, it also became a multidisciplinary forum on psychological and cognitive theories for modelling human behaviours. The 27th Edition of the Italian Workshop on Neural Networks (*WIRN 2017*) will be held at the IIASS of Vietri sul Mare, near Salerno, Italy.

CALL FOR PAPERS Papers will be reviewed by the Program Committee, and may be accepted for oral or poster presentation. All accepted contributions will be published in a special volume printed by Springer and indexed by SCOPUS. Authors will be limited to one paper per registration. Please visit the Springer web site for the paper format: (<http://www.springer.com/series/8767>). Manuscripts should not exceed the limit of 8-10 pages. The submission procedure can be made through Easy Chair: <https://easychair.org/conferences/?conf=wirn2017>

Special sessions

- Dynamics of signal exchanges. Chairs: Anna Esposito, Antonietta M. Esposito, Nadia Mammone, Sara Invitto, Gennaro Cordasco, Mauro Maldonato Francesco Carlo Morabito
- Computational Intelligence in the context of Industry 4.0 . Chairs: Valentina Colla, Silvia Cateni
- Computational Intelligence and Related Techniques in Industrial and ICT Engineering. Chairs: Giovanni Angiulli, Mario Versaci.
- Neural Networks and Pattern Recognition; Chairs: G. Cirrincione and V. Bevilacqua
- Intelligent tools for decision making in economics and finance; Chair: Marco Corazza

Key Note Speaker: Carlotta Domeniconi, George Mason University, Washington DC, USA
Winning the Wheat from the Chaff in Complex and Large data

TOPIC AREAS: Suggested topics include, but are not limited to the following research and application areas:

General Topics of Interest about Computational Intelligence:

Neural Networks, Fuzzy Systems, Evolutionary Computation and Swarm Intelligence, Support Vector Machines, Complex Networks, Bayesian and Kernel Networks, Consciousness and Models of Emotion Cognitive and Psychological Models of Human Behavior

Algorithms & Architectures:

Among others: Opportunist Networks, Metabolic Networks, ICA and BSS, Deep Neural Networks, Bio-inspired Neural Networks, Wavelet Neural Networks, Intelligent Algorithms for Signal (Speech, Faces, Gestures, Gaze, etc) Processing and Recognition

Implementations:

Among others: Hardware Implementations and Embedded Systems, Neuromorphic Circuits and Hardware, Spike-based VLSI NNs, Intelligent Interactive Dialogue Systems, Embodied Conversational Agents

Applications:

Among others: Finance and Economics, Big Data Analysis, Neuroinformatics and Bioinformatics, Brain-Computer Interface and Systems, Data Fusion, Time Series Modelling and Prediction, Intelligent Infrastructure and Transportation Systems, Sensors and Network of Sensors, Smart Grid, Process Monitoring and Diagnosis, Intelligent and Adaptive Systems for Human-Machine Interaction.

PAPER SUBMISSION: Important New Dates

- ➡ **Paper Submission deadline: May 30, 2017**
- ➡ **Notification of acceptance: June 10, 2017**
- ➡ **Camera-ready copy: on site, June 14, 2017**
- ➡ **Conference Dates: June 14-16, 2017**

More details are on: <https://wirn2017.polito.it/>;

And <http://www.iiassvietri.it/en/>