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This Workshop is sponsored by the  
 International Neural Network Society ([www.inns.org](http://www.inns.org))



**WIRN 2018 – PRELIMINARY 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) in 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 28<sup>th</sup> Edition of the Italian Workshop on Neural Networks (*WIRN 2018*) will be held at the IIASS in Vietri sul Mare, near Salerno, Italy.

**CALL FOR PAPERS:** Prospective authors are invited to contribute high quality papers in the topic areas listed below. Contributions should be high quality, original and not published elsewhere. 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=wirn2018>

**Special sessions**

There is a call for special sessions. Proposers must send their proposal no later than March 15 2018 to the steering committee, Anna Esposito ([iiass.annaesp@tin.it](mailto:iiass.annaesp@tin.it)), Marcos Faundez-Zanuy ([faundez@tecnocampus.cat](mailto:faundez@tecnocampus.cat)), Francesco Carlo Morabito ([morabito@unirc.it](mailto:morabito@unirc.it)), Eros Pasero ([eros.pasero@polito.it](mailto:eros.pasero@polito.it))

**KEYNOTE SPEAKERS:**

**Prof. Leon Chua, EECS at University of Berkeley, CA.**

**Prof. Amir Hussain, University of Sterling, UK.**

**Prof. Alessandro Vinciarelli, University of Glasgow, UK.**

**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.

Details of the 2018 conference are on: <https://wirn2018.polito.it/>

**PAPER SUBMISSION: Important Dates (Preliminary)**

- **Special Session/Workshop proposals:** March 15, 2018
- **Paper Submission deadline:** April 15, 2018
- **Notification of acceptance:** May 15, 2018
- **Camera-ready copy:** June 1, 2018
- **Conference Dates:** June 13-15, 2018