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WIRN 2017 – PRELIMINAY 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, SPECIAL SESSIONS PROPOSALS: Prospective authors are invited to contribute high quality papers in the topic areas listed below and proposals for special sessions. Special sessions aim to bring together researchers in special focused topics. Each special session should include at least 3 contributing papers. A proposal for a special session should include a summary statement (1 page long) describing the motivation and relevance of the proposed special session, together with the article titles and author names of the papers that will be included in the track. Contributions should be high quality, original and not published elsewhere or submitted for publication during the review period. Please visit the web site for further details of the required paper format. 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.

Manuscripts should not exceed the limit of 8 pages. The description of the submission procedure will appear soon on the SIREN Website www.associazionesiren.org

Key note speakers
To be defined.

TOPIC AREAS: Suggested topics for the conference 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 Dates (Preliminary)
- **Special Session/Workshop proposals:** March 16, 2017
- **Paper Submission deadline:** April 16, 2017
- **Notification of acceptance:** May 16, 2017
- **Camera-ready copy:** on site, June 1, 2017
- **Conference Dates:** June 14-16, 2017

More detailed instructions will follow soon on the SIREN home page
www.associazionesiren.org or in www.wirn2017.polito.it.