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This Workshop is sponsored by the
International Neural Network Society (www.inns.org)



FIRST CALL FOR PAPERS WIRN 2010

The 20th Italian Workshop on Neural Networks (WIRN 2010) will be held, as usual, at the seaside town of Vietri sul Mare (Salerno, Italy), on the picturesque Amalfi coast, near Naples and the Capri island. The Italian Workshop on Neural Networks (WIRN) is the annual conference organized since 1989 by the Italian Society of Neural Networks (SIREN) in co-operation with the International Institute for Advanced Scientific Studies (IIASS) of Vietri S/M (Italy), and is the reference conference in Italy of the fields related to Neural Networks.

Since the first edition, WIRN has been intended to provide a national forum for researchers to discover recent developments, meet new challenges, and discuss future research directions in neural networks, learning systems, computational intelligence as well as real-world applications. International participants are welcomed and traditionally enlarge the horizon through a more comprehensive perspective. The Workshop usually attracts many attendees from Universities, research centres and industry. The 20th edition will feature keynote talks, invited special sessions, regular oral and poster presentations.

CALL FOR PAPERS, SPECIAL SESSIONS PROPOSALS: Contributions should be high quality, original and not published elsewhere or submitted for publication during the review period. Please see the web site for further details of the required paper format. Papers will be thoroughly reviewed by the Program Committee members, and may be accepted for oral or poster presentation.

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. The co-ordinator of the proposal will also be responsible for the reviewing procedure.

All contributions will be published in a proceeding volume by an international publisher. Authors will be limited to one paper per registration.

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; Algorithms & Architectures: Among others: ICA and BSS, Opportunist Networks, Metabolic Networks, Bio-inspired Neural Networks, Wavelet Neural Networks; Implementations: Among others: Hardware Implementations and Embedded Systems, Neuromorphic Circuits and Hardware, Spike-based VLSI Neural Networks; Applications: Among others: Finance and Economics, 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, Process Monitoring and Diagnosis, Cryptography.

PAPER SUBMISSION: Important Dates

- 🌀 **Special session/workshops proposals:** March 1, 2010
- 🌀 **Paper Submission deadline:** March 28, 2010
- 🌀 **Notification of acceptance:** April 18, 2010
- 🌀 **Camera-ready copy:** on site, May 27, 2010
- 🌀 **Conference Dates:** May 27-29, 2010

Submitted papers should be sent by electronic mail to the address: Wirn2010@associazionesiren.org

More detailed instructions can be found at the SIREN home page

<http://www.associazionesiren.org/initiatives/WIRN10/>

PROF. EDUARDO R. CAIANIELLO Ph.D. THESIS PRIZE: During the Workshop the "Premio E.R. Caianiello" will be assigned to the best Italian Ph.D. thesis in the area of Neural Networks and related fields. The prize will include a diploma and 1.000,00 €. Interested applicants must send their CV and thesis to "Premio Caianiello-WIRN 2010" c/o IIASS before April 18, 2010 to the addresses (Wirn10@associazionesiren.org, iass.segreteria@tin.it). To participate, the Ph.D. degree has to be obtained after January 1, 2008 and before March 31, 2010. A candidate can submit his/her Ph. D. thesis to the prize at most twice. Only SIREN members are admitted (subscription forms can be downloaded from the SIREN web site). For more information, contact the conference Secretary at I.I.A.S.S. "E. R. Caianiello", Via G. Pellegrino, 19, 84019 Vietri Sul Mare (SA), ITALY.