



INTERNATIONAL WORKSHOP
NEW TRENDS OF COMPUTATIONAL INTELLIGENCE IN ENGINEERING INFORMATICS

PROVINCIA DI SALERNO – SALERNO
MAY 5 - 2011

Engineering Informatics embrace modern approaches and techniques breaking down static barriers between engineering and computer science fields. This workshop will focus on some advanced computational intelligence trends that changes the way engineers solve complex problems characterized by knowledge-intensive processing. As significant part of the workshop, experts coming from academic and industries will participate to specific panel sessions to share expertise, technological and research results, stimulating discussion on the generality, power and scalability of the proposed approaches.

Workshop Chairs:

Prof. Matteo Gaeta, Prof. Vincenzo Loia - University of Salerno

Keynote Speakers:

- *Prof. Piero Bonissone* – Chief Scientist, Coolidge Fellow GE Global Research Computing and Decision Sciences
- *Prof. Carlo Cecati* - Co-Editor in Chief of IEEE Transactions on Industrial Electronics–University of Aquila, Department of Electrical and Information Engineering
- *Prof. Vincenzo Piuri* - IEEE Division X Director - University of Milan, Department of Information Technology
- *Prof. Tomohiro Takagi* - Director, Meiji University Soft Computing Institute - Department of Computer Science, Meiji University

Programme Committee

Acampora Giovanni - University of Salerno

De Santo Massimo - University of Salerno

Di Nuovo Alessandro - University of Catania

Marcelli Angelo – University of Salerno

Marcelloni Francesco - University of Pisa

Masulli Francesco – University of Genova

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Senatore Sabrina - University of Salerno

Siano Pierluigi - University of Salerno

Tagliaferri Roberto - University of Salerno

Vaccaro Alfredo – University of Sannio

Vento Mario – University of Salerno

Topics:

Computational Intelligence

Collective Knowledge

Industrial Applications

e – Society

Business Intelligence

e – Learning

Emerging Scenario

08:30 Registration

9:00 *Welcome Session*

9:00 On. Edmondo Cirielli - President of Provincia di Salerno

9:10 Prof. Matteo Gaeta - University of Salerno

9:20 Prof. Vincenzo Loia - Chair of the IEEE CIS Italian Chapter

09:30 KEYNOTE: Prof. Vincenzo Piuri - *"Holon Systems: a Software Paradigm for Engineering Applications and Service-Oriented Architectures"*

10:15 KEYNOTE: Prof. Piero Bonissone - *"Soft Computing in Prognostics and Health Management (PHM) Applications: A Case Study in Anomaly Detection"*

11 :00 Coffee break + Press Room

11:45 KEYNOTE: Prof. Tomohiro Takagi - *"Fundamental Idea and Applied Researches of Conceptual Fuzzy Sets"*

12:30 KEYNOTE: Prof. Carlo Cecati - *"Power Electronics, Power Systems and Computational Intelligence: Three technologies for the future of sustainable energies"*

13:15 Buffet

15:00 ROUND TABLE – *"Industrial Informatics for Smart Energy"* : Chair: Prof. Matteo Gaeta

- Ing. Alfredo Adamo, CEO OPERA21
- Dott. Dario Avallone, Director of the R&D Department, Engineering Ingegneria Informatica
- Ing. Antonio Stefano Donnarumma, President ACEA DISTRIBUZIONE
- Ing. Mariano Maraniello, Manager of center south sales executive PAL FASTWEB S.p.A.
- Prof. Giuseppe Zollo, president of the Board of Directors - Città della Scienza SpA