

CONFERENCE PROGRAM  
**Thursday 15<sup>th</sup>, May**

14:00 **REGISTRATION** – IIASS Secretariat (Tina Nappi)

**“E.R.CAIANIELLO” OPENING INVITED LECTURE**

14:30 – 16:00

Open Plenary Lecture: **Leon Chua**

*University of California at Berkeley (USA)*

**MEMRISTOR: PAST, PRESENT AND FUTURE**

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16:00- 16:15 *Coffee Break*

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**SPECIAL SESSION: MEMRISTOR AND COMPLEX DYNAMICS IN BIO-INSPIRED NETWORKS**

*Chairs: Fernando Corinto, Eros Pasero*

**INVITED LECTURE**

16:15 – 16:45

*Salvatore Iannotta*

**Memristors and bio-sensing: a perspective to explore towards a novel bio-electronic platform**

16:45 – 17:00

*Carlo Petrarca, Soudeh Yaghouti, Lorenza Corti, Massimiliano de Magistris*

**Analog realization of a non linear network with re-configurable structure as paradigm for real time analysis of complex dynamics**

17:00 – 17.15

*Khaled Nabil Salama*

**Memristor-based oscillators**

17:15 – 17:30

*Amedeo Troiano, Eros Pasero*

**Shape memory piezoelectrics are memristive systems**

17:30 – 17:45

*Mattia Frasca*

**Synchronization in networks of nonlinear circuits through memristor-based synapses**

17:45 – 18:00

*Fernando Corinto, Jacopo Secco*

**Memristor-based binary synapses for bio-inspired neural networks**

18:00 – 18:15

*Maurizio Fiasché, Marco Taisch,*

**On The Use Of Quantum-Inspired Optimization Techniques For Training Spiking Neural Networks: A New Method Proposed**

## REGULAR SESSION

Chair: **Raffaele Parisi**

18:15 – 18:30

*Marta Cardin, Silvio Giove*

**A Grid-Based Optimization Algorithm for Parameters Elicitation in WOWA Operators: an Application to Risk Assessment**

18:30 – 18:45

*Danilo Comminiello, Simone Scardapane, Michele Scarpiniti, Raffaele Parisi and Aurelio Uncini*

**Online Selection Of Functional Links For Nonlinear System Identification**

19:00

SIREN Society Meeting (*reserved to SIREN members*)

20:00

SIREN Steering Committee Meeting (*reserved to elected SC members*)

21:00

Social Dinner (*Hotel La Lucertola, Vietri S/M*)

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CONFERENCE PROGRAM  
**Friday 16<sup>th</sup>, May**

9:00 **REGISTRATION** – IIASS Secretariat (Tina Nappi)

9:00: 9:10

**SPECIAL SESSION: EMOTIONAL EXPRESSIONS AND DAILY COGNITIVE FUNCTIONS**

Chair: **Anna Esposito**

**INVITED LECTURES**

"*Maria Marinaro*"

9:10 – 9:50

*Björn Schuller*

Imperial College London/UK and Munich's Technical University (TUM), Germany

**Deep Learning our Everyday Emotions**

"*Luigi Maria Ricciardi*"

9:50 - 10:30

*Laurence Likforman*

Telecom-Paristech, France

**Extracting style and emotions from handwriting**

**REGULAR LECTURES**

Chair: **Gennaro Cordasco**

10:30 – 10:45

*Vincenzo Paolo Senese, Augusto Gnisci and Antonio Pace.*

**Cogito, ergo gusto: Explicit and implicit determinants of the first consumption behaviour**

10:45-11:00

*Anna Esposito, Davide Palumbo and Alda Troncone.*

**Effects of narrative identities and attachment style on the individual's ability to categorize emotional voices**

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*11:00 - 11:15 Coffee Break*

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11:15 - 11:30

*Evgeniya Hristova, Maurice Grinberg, Veselina Kadreva and Gabriela Peykovska.*

**Influence Of Induced Mood On Rating Emotional Valence Of Facial Expressions**

11:30 - 11:45

*Fridanna Maricchiolo, Augusto Gnisci, Gianluca Ficca and Marino Bonaiuto.*

**Speaker's Hand Gestures Modulate Receiver's Attitude, Assessed Through Physiological Variables**

11:45 - 12:00

*Marcos Faundez-Zanuy, Antonio Satue-Villar, Enric Sesa-Nogueras and Josep Roure.*

**A Multimodal Approach For Parkinson Disease Analysis**

12:00 - 12:15

*Augusto Gnisci, Antonio Pace and Anastasia Palomba.*

**Coordination Between Markers, Repairs And Hand Gestures In Political Interviews**

12:15 - 12:30

*Stephen Gordon, Nicolas Costen and Silvester Czanner.*

**The Effect Of High And Low Power Body Positions On Decision Making And Risk Estimation**

12:30 - 12:45

*Olimpia Matarazzo, Marcella Scialla and Ivana Baldassarre.*

**Are Emotions Reliable Predictors Of Future Behavior? The Case Of Guilt And Other Post-Action Emotions**

12:45 - 13:00

*Mauro Maldonato and Silvia Dell'Orco.*

**Making Decision Under Uncertainty: Emotions, Risk And Biases**

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*13:00 - 14:00 Lunch Break*

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## REGULAR SESSION

Chair: **Aurelio Uncini**

14:00 – 14:15

*Raffaele Parisi, Danilo Comminiello, Michele Scarpiniti, Aurelio Uncini*

**Integration Of Audio And Video Clues For Source Localization By A Robotic Head**

14:15 – 14:30

*Elisa Capecci, Francesco Carlo Morabito, Maurizio Campolo, Nadia Mammone, Domenico Labate, Nikola Kasabov*

**A Feasibility Study Of Using The Neucube Spiking Neural Network Architecture For Modelling Alzheimer's Disease And Mild Cognitive Impairment Eeg Data**

14:30 – 14:45

*Massimo Panella, Luca Liparulo, Andrea Proietti*

**Time Series Analysis By Genetic Embedding And Neural Network Regression**

14:45 -15:00

*Davide De March, Matteo Borrotti, Vito Capacchione, Debora Slanzi, Lorenzo Podestà And Irene Poli*

**A Predictive Approach Based On Neural Network Models For Building Automation Systems**

15:00 – 15:15

*Marco Fagiani, Stefano Squartini, Leonardo Gabrielli, Susanna Spinsante And Francesco Piazza*

**Domestic Water And Natural Gas Demand Forecasting By Using Heterogeneous Data: A Preliminary Study**

15:15 – 15:30

*Anas Belahcen, Monica Bianchini And Franco Scarselli*

**Web Spam Detection Using Graph Neural Network**

15:30 – 15:45

*Hassan Mahmoud, Francesco Masulli, Marina Resta, Stefano Rovetta and Abdulatif Amr*

**Hubs and Communities Identification in Financial Networks**

15:45 – 16:00

*Amedeo Buonanno And Francesco Palmieri*

**Simulink Implementation Of Belief Propagation In Normal Factor Graphs**

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16:00 – 16:15 Coffee Break

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16:15 – 16:30

*Giuseppe Vitello, Conti Vincenzo, Salvatore Vitabile, Filippo Sorbello*

**An Heuristic Approach For The Training Dataset Selection In Fingerprint Classification Tasks**

16:30 – 16:45

*Augusto Gnisci, Antonio Pace And Anastasia Palomba*

**Coordination Between Markers, Repairs And Hand Gestures In Political Interviews**

16:45 – 17:00

*Nunzio Alberto Borghese, Pierluca Lanzi, Renato Mainetti, Michele Pirovano and Elif Surer*

**Algorithms Based On Computational Intelligence Based For Autonomous Physical Rehabilitation At Home**

17:00 – 17:15

*A. Cristini, Mario Salerno, Gianluca Susi*

**A Continuous-Time Spiking Neural Network Paradigm**

17:30 *Conclusions*

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## POSTER SESSION

*Francesco Castaldo, Francesco Palmieri, Vahid Bastani, Lucio Marcenaro And Carlo Regazzoni*

**Bayesian Analysis Of Vessels Interactions Using Topology Representing Networks**

*Luca D'Auria, Antonietta M. Esposito, Zaccaria Petrillo And Agata Siniscalchi*

**Denoising Magnetotelluric Recordings Using Self-Organizing Maps**

*Domenico Labate, Fabio La Foresta, Nadia Mammone And Francesco Carlo Morabito*

**Effects Of Artifacts Rejection On Eeg Complexity In Alzheimer's Disease**

*Domenico Labate, Fabio La Foresta, Giuseppe Morabito, Isabella Palamara And Francesco Carlo Morabito*

**Empirical Mode Decomposition For Alzheimer's Disease Diagnosis**

*Silvio Giove, Luca Farnia*

**Fuzzy Measures and Goal Programming: An Application to the FEEM Sustainable Composite Indicator**

*Francesco Camastra, Angelo Ciaramella, Alessio Placitelli And Antonino Staiano*

**Machine Learning-Based Web Pages Categorization By Semantic Graphs**

*Stefano Rovetta and Francesco Masulli*

**Online Spectral Clustering And The Neural Mechanisms Of Concept Formation**

*Luca Agnello, Carmelo Militello, Cesare Gagliardo And Salvatore Vitabile*

**Radial Basis Function Interpolation For Referenceless Thermometry Enhancement**

*Simone Scardapane, Danilo Comminiello, Michele Scarpiniti, Aurelio Uncini*

**Significance-Based Pruning For Reservoir's Neurons In Echo State Networks**