

WIRN2026 PROGRAM

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PRE-CONFERENCE

9 June

DAY 1

10 June

DAY 2

11 June

DAY 3

12 June

08:30

Registration

09:00 - 09:45

Keynote: Prof. Baranyi Peter (Corvinus University of Budapest) - CIAS

Keynote Presentation: "Neural Mesh, as an alternative to Neural Network"

09:45 - 10:15

Partnership agreement between SIREN and CIAS Corvinus University

Signing ceremony of the scientific cooperation agreement

10:15 - 10:45

Coffee Break

10:45 - 12:30

ROOM EDUARDO CAIANIELLO

REGULAR SESSION

CHAIR : Vincenzo Randazzo

10:45 - 11:00

ID 6

A Comparative Analysis of Metaheuristic-Optimized Topic Modeling and Supervised Classification Pipelines for ML-Enhanced Systematic Reviews in...*Agostino Marengo and Vito Santamato***11:00 - 11:15**

ID 69

Neural Mesh for Explainable Modeling: A Case Study on Human Decision-Making in a Dynamic Stabilization Task*Ildikó Horváth, Anna Sudár, Ádám B. Csapó and Péter Baranyi***11:15 - 11:30**

ID 63

A Quantitative Trustworthiness Analysis for Inherently Interpretable B-cos CNNs*Natale Laganà, Cosimo Ieracitano, Muhammad Suffian, Francesco Carlo Morabito and Nadia Mammone***11:30 - 11:45**

ID 72

Input sensitivity and relevance in Neural Network-based option pricing*Corazza Marco***11:45 - 12:00**

ID 16

Validation of Watermark-Assisted Orientation Recovery for Online Signature Verification on the BiosecurID Database*Ruben Copado-Torreblanca and Marcos Faundez-Zanuy***12:00 - 12:15**

ID 40

Fuzzy Poverty Measures with Multi-Expert Preference Elicitation*Luca Anzilli, Marta Cardin and Silvio Giove***12:15 - 12:30**

ID 38

Graph Neural Network bridge digital twin for strain measurements virtual sensing*Marco Martino Rosso, Giulia Marasco, Sen Debarshi, Giuseppe Carlo Marano and Christos Thomas Georgakis*

ROOM MARIA MARINARO

Workshop: Dynamics of Signal Exchanges and Empathic Systems

Organizers : Anna Esposito, Mauro Maldonado, Somdatta Chakraborty, Maria Santina Ler, Fiammetta Marulli, Maria Sarno, Miriam Veneziano, Gennaro Cordasco, Antonio Perna.

Co-Chairs : Somdatta Chakraborty, Maria Santina Ler, Maria Sarno, Miriam Veneziano

10:45 - 11:00

ID 33

Cyclothymic-Hypersensitive Temperament Questionnaire: A Semantic Perspective on Its Multidimensional Structure Using LLM Embeddings

Francesco Chiappone, Anna Pezzella, Monica Casella, Vincenzo Paolo Senese and Simone Pisano

11:00 - 11:15

ID 20

Opposing Parental Patterns in the Association Between Activity Structuring and Interpersonal Neural Synchrony in Mother–Child and Father–Child Dyads

Alessia Sara Zeni, Alessandro Carollo, Andrea Bizzego, Atiqah Azhari and Gianluca Esposito

11:15 - 11:30

ID 37

Italian Validation of the TikTok Addiction Scale: Psychometric Properties and Factorial Structure

Lucienne Perreca, Carla Nasti, Agnese Orefice, Simone Pisano, Vincenzo Paolo Senese, Gennaro Catone and Francesca Mottola

11:30 - 11:45

ID 27

Psychological Predictors of Problematic Gambling Behaviour in Kazakhstan

Yerbota Kassymov, Riccardo Cavallaro, Alessandro Carollo, Janat Shnaider and Gianluca Esposito

11:45 - 12:00

ID 48

Missing Values in Data: When Silence is a Symptom of a Political Choice

Emanuela Palomba

12:00 - 12:15

ID 36

A Relational-Emotional Model of Internet Addiction in Adolescence: The Predictive Role of Interpersonal Rejection, Depression, and Alexithymia

Roberta Esposito, Carla Nasti, Federica Carbone, Sara Vitolo and Vincenzo Paolo Senese

12:15 - 12:30

ID 18

The Power of Cursive and Print Copying Tasks to Detect Mild Cognitive Impairment: Evidence from Dynamic Handwriting Kinematics

Maria Santina Ler, Maria Sarno, Miriam Veneziano, Antonio Perna, Gennaro Cordasco and Anna Esposito

12:30 - 14:30

Lunch Break

14:30 - 15:15

**Keynote: Prof. Morabito Francesco Carlo
(University Mediterranea of Reggio Calabria)**

Keynote Presentation: "Space qualified meta learning and explainable AI approaches for Martian data"

15:15 - 16:00

**Keynote: Prof. Cirrincione Giansalvo (University
of Picardie Jules Verne)**

Keynote Presentation: "The Transformer After Heuristics: Geometry, Redundancy, and the Incremental Architecture"

16:00 - 16:30

Coffee Break

16:30 - 18:00

ROOM EDUARDO CAIANIELLO

REGULAR SESSION

CHAIR : Gennaro Cordasco

16:30 - 16:45

ID 73

Stable Terminal Gradient Descent Attraction*Alessandro Betti, Marco Gori, Stefano Melacci and Jinwei Zhao***16:45 - 17:00****ID 1****Genetic Algorithms vs. Evolutionary Strategies: Evidence from Collective Aggregation in Multi-Agent Systems***Paolo Pagliuca and Alessandra Vitanza***17:00 - 17:15****ID 15****HandAQUUS: A Multimodal Acquisition and Synchronization Framework for Handwriting and Gaze Signals***Didac Maymo-Calatayud, Alessia Monaco, Josep Lopez-Xarbau and Marcos Faundez-Zanuy***17:15 - 17:30****ID 26****A Comparative Study of Small Language Models on Generation, Reasoning and Understanding Tasks***Andrea Amorosini, Valerio Di Pasquale and Carmine Spagnuolo***17:30 - 17:45****ID 34****Reasoning Over Knowledge Graph For QA***Adit Ajad Yarra, Abhijeet Kumar, Aditya Prashanth, Amrita Kalanee and Dr Ashwini M Joshi***17:45 - 18:00****ID 31****Fingerprint-informed neural network modelling of functional connectivity for anosmia classification in Parkinson's disease***Augusto Ielo and Beniamino Di Martino***18:00 - 19:00****SIREN ANNUAL MEETING**

SIREN General Assembly of Members

20:00**Social Dinner at Hotel "La Lucertola"**

Conference Gala Social Dinner at Hotel La Lucertola (Via
Cristoforo Colombo, 29, 84019 Vietri sul Mare SA)

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MSCA Crystal
Project

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SIREN - Italian Society of Neural Networks

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