



APHRODITE

Adaptive behavioral models of robotic systems based on brain-inspired AI cognitive architectures.

WORKSHOP PROGRAM

August 31th, 2020

Virtual workshop, IEEE Ro-Man Conference

Register
[here](#)

9.30 – 9.45 Welcome & Introduction, Dr. Laura Fiorini, The Biorobotics Institute, Scuola Superiore Sant'Anna

9.45 – 10.15 "From social and cognitive neuroscience to human-robot interaction", **Prof. Agnieszka Wykowska**, Italian Institute of Technology, Italy.

10.15 – 10.45 "Intention Sharing and Semantic Hierarchy in the Human-Robot Communication for Working Cooperatively: A Brain-Inspired Engineering Framework for Logical Reasoning", **Prof. Hiroaki Wagatsuma**, Kyushu Institute of Technology, Japan.

10.45 – 10.55 Questions & Answers

10.55 – 11.00 Break

Session 1: Author Presentation

(chairs: Dr. Gabriella Cortellessa, Dr. João Quintas)

11.00 – 11.10 "Shared-Control, Shared-Autonomy and Shared-Intelligence in Assistive Technologies: Three forms of Cooperation between User and Robot", Gloria Beraldo, University of Padova & CNR-ISTC, Italy

11.10 – 11.20 "The Future of robotic Platforms for Gait Rehabilitation", Prof. Artur Serrano, NTNU Norwegian University of Science and Technology, Norway

11.20 – 11.30 "Integrating service robots, IoT, Virtual Communities and Smart Objects to serve independently living elders: on-field trial", Prof. Alberto Borghese, Università di Milano, Italy

11.30 – 11.40 "Robot-mediated assessment of body posture, gait parameters and hand grip strength during the 10m walking test", Alessandra Sorrentino, The BioRobotics Institute, Scuola Superiore Sant'Anna, Italy.

11.40 – 11.50 "State of the art on thermal IR imaging based affective computing for infant robot interaction", Chiara Filippini, Institute for Advanced Biomedical Technologies, Università G. D'Annunzio, Italy.

11.50 – 12.00 Break

Session 2: Author Presentation

(Chairs: Prof. Artur Serrano, Prof. Filippo Cavallo)

12.00 – 12.10 "Gender Identification in a Two-Level Hierarchical Speech Emotion Recognition System for an Italian Social Robot", Antonio Guerrieri, Fondazione Neurone Onlus, Italy.

12.10 – 12.20 "Do we need to update the uncanny valley theory after 50 years?", Dr. Giovanni Ferrin, Department of Mathematics, Computer Science and Physics, University of Udine, Italy.

12.30 – 12.40 "A short Review on Architectures for Artificial Social Companions", Dr. João Quintas, Instituto Pedro Nunes, Coimbra, Portugal.

12.40 – 12.50 "Engaging older adults' need, wishes and fears of social robotis through participatory design", Dr. Roger A. Søråa, NTNU Norwegian University of Science and Technology, Norway.

12.50 – 13.00 "A Mind-inspired Architecture for Adaptive HRI in Assistive Tasks", Dr. Alessandro Umbrico, Institute for Cognitive Science and Technology, National Research Council, Italy

13.00 – 13.10 Wrap up & Conclusion

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