

September 16 09.30 – 16:00
Hybrid-meeting, hosted by Örebro University



Agenda

09.00 – 09.30 coffee and registration for onsite participants

09.30 **Welcome** Johan Schnürer, Vice-Chancellor at Örebro University

09.40 **Introduction to the workshop** Amy Loutfi, Pro-Vice-Chancellor at Örebro University

Session 1 Topic Integrative AI

Presentations 10 mins per presentation

09.50-10.00 **Luc De-Raedt**, Guest Professor in Computer Science and Artificial Intelligence at Örebro University. “Neuro-Symbolic = Neural + Logical + Probabilistic”

10.00-10.10 **Diego Calvanese**, Free University of Bozen-Bolzano, visiting professor position at Umeå University, supported by WASP. “Semantic Technologies for Data Management”

10.10-10.20 **Sushant Kumar Pandey**, University of Gothenburg/Chalmers. “Comparing Programming Language Models for Design Pattern Recognition.”

10.20-10.40 Discussion and break

Session 2 Topic AI for Medical/Health Applications

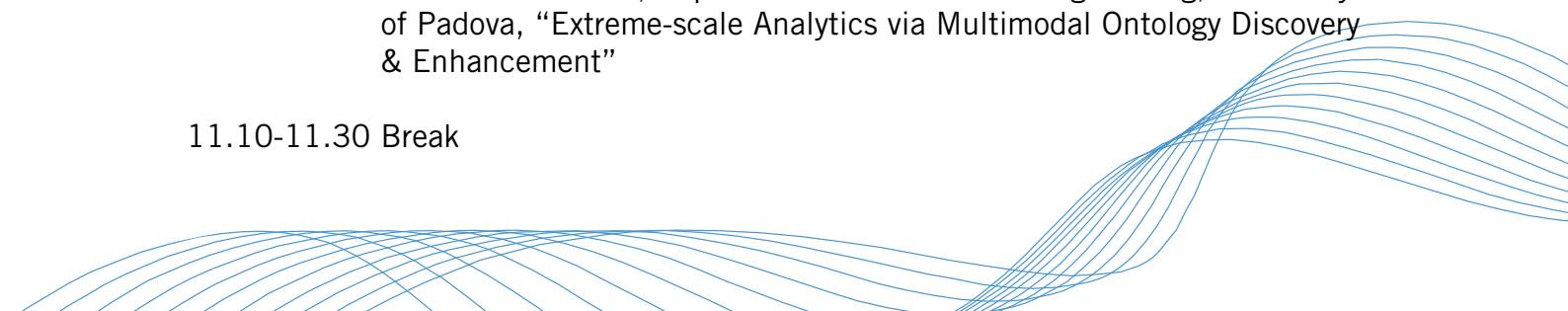
Presentations 10 mins per presentation

10.40-10.50 **Marco Falda**, University of Padova, “Semantic wikis as flexible database interfaces for biomedical applications”

10.50-11.00 **Paolo Soda**, Department of Engineering at the University Campus Bio-Medico in Rome (UCBM), and visiting professor on AI at the University of Umeå. “Bit-Omics: exploiting patient digital phenotypes for AI-driven next generation personalized medicine”

11.00-11.10 **Gianmaria Silvello**, Department of Information Engineering, University of Padova, “Extreme-scale Analytics via Multimodal Ontology Discovery & Enhancement”

11.10-11.30 Break



11.30-11.40 **Emanuele Frontoni**, University of Macerata, “Prediction of complications of type 2 Diabetes: the largest European study on AI based prediction on 147.664 patients”.

11.40-11.50 **Michele Bernardini**, Department of Information Engineering Università Politecnica delle Marche/ **Luca Romeo**, Università degli Studi di Macerata/ **Emanuele Frontoni**, Università degli Studi di Macerata “Prediction of End-Organ Complications of Type 2 Diabetes: A Machine Learning Approach”.

12.00-14.00 LUNCH BREAK (for **online** participants)

12.00-13.00 LUNCH BREAK (for **onsite** participants)

13.00-14.00 Visit to Örebro University Robot Lab

Session 2 continues

14.00-14.10 **Barbara Di Camillo**, University of Padova, “Leveraging Dynamic Bayesian Networks for modelling and predicting the progression of clinical conditions”.

14.10-14.20 **Dario Salvi**, Malmö University, “Collecting longitudinal data in free living conditions for digital health applications”

14.20-14.40 Discussion

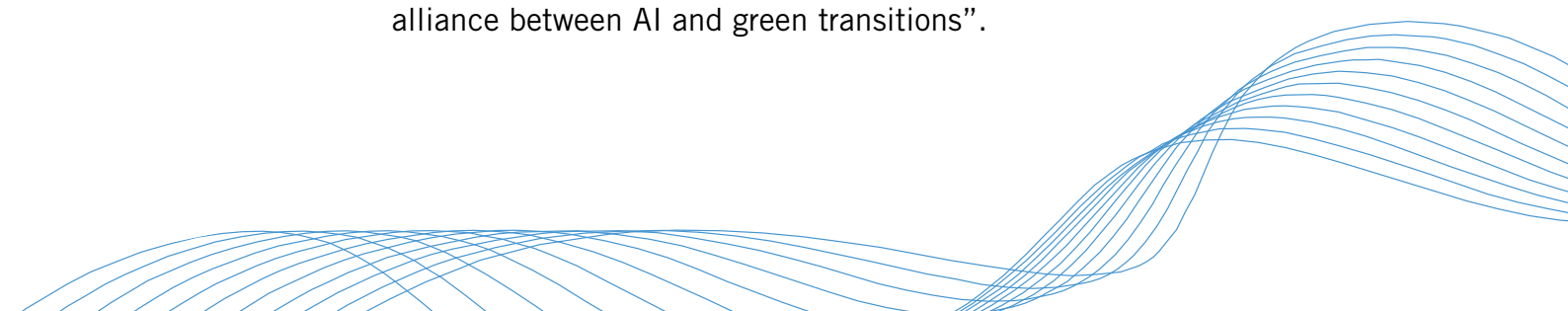
Session 3 Applications Perspectives for AI, Robotics

Presentations 10 mins per presentation

14.40-14.50 **Valeria Seidita**, University of Palermo, “Agents and robots to assist physicians and patients: a proposal”

14.50-15.00 **Katherine Harrisson** and **Amy Loutfi**, Linköping University and Örebro University, “The Imperfectly Relatable Robot: and interdisciplinary conversation around the role of failure in HRI”

15.00-15.10 **Emanuele Frontoni**, University of Macerata, “Energy, Water, Food – an alliance between AI and green transitions”.





Swetaly AI workshop #2

15.10-15.20 **Tania Di Mascio** - University of L'Aquila, "AI case study: how to make an AI algorithm more ecological".

15.20-15.40 Discussion

15.40 – 16.00

Reflections

Joint discussion about the possibilities for collaboration within Swetaly.

A Visiting Fellow Program.

18.00 Dinner in Örebro town for onsite participants

