



Healthcare Information Systems: AI in processing Big Data with Privacy Preserving Techniques

HYBRID WORKSHOP

Location: University of Novi Sad, Dr Zorana Đinđića 1, Novi Sad, Room: I-16

Date: February 7, 2023, 10.00 CET

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Agenda

10:00-10:10 / Introduction-Welcome

Mirjana Ivanovic
Full Professor / Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

10:10-10:30 / Overview of Contemporary Healthcare IT systems

Serge Autexier
Technical Coordinator, DFKI

10:30-11:00/ Data Management from HIS Standard to ML Appropriate Format

Johannes Rust
Researcher / Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI), Bremen, Germany

11:00-11:30 / Machine Learning in Processing Health Data and Predictive Models

Vladimir Kurbalija
Full Professor / Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

Mirjana Ivanović
Full Professor / Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

11:30 – 11:45 Coffee Break

11:45 -12:15 / Simulations, Predictions and Explainable Artificial Intelligence

Serge Autexier
ASCAPE Scientific-Technical Project Manager / Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI), Bremen, Germany

Johannes Rust
Researcher / Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI), Bremen, Germany

12:15-12:35/ Federated Learning and its Role in Health Distributed Information System - General Approach and Implementation

Mihailo Ilić
Researcher / Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

Marko Otlokan
Researcher / Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

12:35 -12:55/ Homomorphic Encryption and Global Homomorphic Models

Anamaria Vizitiu
Researcher / SIEMENS SRL, BUCURESTI, Romania

Ioana Ciangau
Researcher / SIEMENS SRL, BUCURESTI, Romania

12:55-13:55/ Related Approaches in Shaping Future Healthcare Information Systems

“Shaping Future of Post-cancer Management through AI at the Edge”, Philip O'Brien, Christine O'Meara, Walton Institute for Information and Communication Systems Science (FAITH)

"Supporting older cancer survivors with AI and Big Data: The LifeChamps project", Prof. Panagiotis Bamidis, Dr Antonis Billis, Lab of Medical Physics and Digital Innovation, School of Medicine, Aristotle University of Thessaloniki, (**LifeChamps**)

"In Silico trials for drug tracing the effects of sarcomeric protein mutations leading to familial cardiomyopathy", Prof. Nenad Filipovic, Bioengineering Research and Development Center– BiolRC, Serbia (**SILICOFCM**)

13:55 – 14:30 Discussion - closing