

Onsite Activities (*Preliminary*) Program

InfoSys 2024 & InfoWare 2024

Conference Hotel
Conference Venue Location
Conference will be mixed online and on location at

NOVOTEL Athens Hotel
4-8 Michail Voda str.
104 39 Athens – Greece

<https://all.accor.com/hotel/0866/index.en.shtml>

Updated as of March 4th, 2024.

The program will be continuously updated.

InfoSys 2024: <https://www.aria.org/conferences2024/ProgramICNS24.html>

InfoWare 2024: <https://www.aria.org/conferences2024/ProgramICWMC24.html>

Timezone converter: <https://www.worldtimebuddy.com/>

Time slots	Activity
------------	----------

Sunday, March 10

10:30am	Registration starts The registration desk is located in front of the conference rooms The reception is operating during the entire conference
12:15 - 12:30	Opening session Prof. Dr. Petre Dini
12:30 - 13:30	Tutorial Lecture I Theme: Prospect of Quantum Inspired Algorithms for Optimum Feature Subset Selection in Machine Learning Lecturer Distinguished/Emeritus Prof. Ph. D. Basabi Chakraborty, Iwate Prefectural University, Japan Chair Petre Dini
13:30 - 13:45	Coffee Break
13:45 - 14:45	Tutorial Lecture II Theme: Smart Urban Solutions: Alleviating Traffic Congestion with Innovations in the Detection and Localization of Free Street Parking Spaces through Artificial Intelligence and Motion Estimation Lecturer Tala Bazzaza, University of British Columbia, Canada Chair

	Basabi Chakraborty
14:45 - 15:00	Coffee Break
15:00 - 16:00	Tutorial Lecture III Play with me: Practical Autocurriculum Deep Reinforcement Learning for Resilient Operation of Cyber-Physical Energy Systems Lecturer Dr. Ing. Eric Veith, Carl von Ossietzky University Oldenburg, Germany Chair Tala Bazzaza
16:00 - 16:15	Coffee Break
16:15 - 18:00	Panel #1 Theme: Advanced Technologies for Health Moderator: Prof. Dr. Rory Lewis, University of Colorado, Colorado Springs, USA Panelists Prof. Dr. Dirceu Cavendish, Kyushu Institute of Technology, Japan Prof. Dr. Maura Mengoni, Polytechnic University of Marche, Italy M.D. Takayuki Nakano, Kyoto Prefectural University of Medicine, Japan Assist. Prof. Dr. Amina Souag, Canterbury Christ Church University, UK Dr./CEO Sarfraz Khokhar, Rasimo Systems, Raleigh, USA
18:30 - 20:00	Welcome Cocktail

Monday, March 11

09:00 - 10:00	Keynote Speech Theme: Harvesting Innovations: Nurturing Norway's Agricultural Future with Microcredentials Speaker Prof. Dr. Lasse Berntzen, University of South-Eastern Norway, Norway Chair Eric Veith
10:00 - 10:15	Coffee Break
10:15 - 12:00	Session 1 [ENERGY, AIHealth]
12:00 - 12:15	Coffee Break
12:15 - 13:15	Keynote Speech Theme: Industrial Insect Production – Novel Perspectives Speaker Prof. Dr. Juho Mäkiö, Hochschule Emden/Leer, Germany Chair Lasse Berntzen
13:15 - 14:15	Lunch on your own
14:15 - 15:45	Session 2 [INTERNET, ICWMC]
15:45 - 16:00	Coffee Break
16:00 - 18:15	Session 3 [ICNS, WEB, HUSO, BRAININFO, AIHealth]
18:15 - 18:30	Coffee Break
18:30 - 20:30	Session 4 [SIGNAL, ENERGY]

Tuesday, March 12

09:00 - 10:00	<p align="center">Keynote Speech</p> <p>Theme: Unmanned Aerial Vehicles Communication in 5G and 6G Networks</p> <p align="center">Speaker</p> <p align="center">Prof. Dr. Eugen Borcoci, National University of Science and Technology POLITEHNICA Bucuresti (UNSTPB), Romania</p> <p align="center">Chair</p> <p align="center">Dirceu Cavendish</p>
10:00 - 10:15	Coffee Break
10:15 - 12:15	Session 5 [LLMSDI/INTERNET]
12:15 - 12:30	Coffee break
12:30 - 14:00	Session 6 [INTELLI]
14:00 - 15:00	Lunch on your own
15:00 - 16:45	Session 7 [VEHICULAR I]
16:45 - 17:00	Coffee Break
17:00 - 18:45	Session 8 [ICAS]
18:45 - 19:00	Coffee Break
19:00 - 20:30	<p align="center">Panel #2</p> <p>Theme: Challenges on Systems Performance, Resilience, and Robustness</p> <p>Moderator: Emeritus Prof. Dr. Fritz Laux, Reutlingen University, Germany</p> <p align="center">Panelists</p> <p align="center">Prof. Dr. Eugen Borcoci, National University of Science and Technology POLITEHNICA Bucuresti (UNSTPB), Romania</p> <p align="center">Dr. Faouzi Adjed, IRT SystemX, France</p> <p align="center">Prof. Dr. Oliver Michler, Technical University Dresden, Faculty of Transportation, Germany</p> <p align="center">Assoc. Prof. Dr. Atreyee Sinha, Edgewood College, USA</p>

Wednesday, March 13

09:00 - 10:00	<p align="center">Keynote Speech</p> <p>Theme: An Experimental and Computational Investigation of the Compressed Snow-Tire Interaction</p> <p align="center">Speaker</p> <p align="center">Assoc. Prof. Dr. Costin Untaroiu, Virginia Tech, USA</p> <p align="center">Chair</p> <p align="center">Oliver Michler</p>
10:00 - 10:15	Coffee Break
10:15 - 12:00	Session 9 [DBKDA]
12:00 - 12:15	Coffee Break
12:15 - 13:30	Session 10 [DBKDA]
13:30 - 14:30	Lunch on your own
14:30 - 16:15	Session 11 [VEHICULAR II, INTELLI]
16:15 - 16:30	Coffee Break
16:30 - 18:15	Session 12 [AIHealth]
18:15 - 18:30	Coffee Break
18:30 - 20:15	Panel #3

	<p align="center">Theme: Trends in Automotive and Energy Industry Moderator: Prof. Dr. Lasse Berntzen, University of South-Eastern Norway, Norway Panelists Prof. Dr. Vítor H. Pinto, FEUP, Portugal Dr.-Ing. Eric Veith, Carl von Ossietzky University Oldenburg, Germany Prof. Dr. Tomonari Furukawa, University of Virginia, USA Sr. Lect. Dr. Elena Haller, Halmstad University, Sweden</p>
20:30 - 23:30	Gala Dinner (Novotel)

Thursday, March 14

09:00 - 10:00	<p align="center">Keynote Speech Theme: Opportunities and Challenges of GNSS as a Basic Telematics Sensor for Assisted and Autonomous Driving Speaker Prof. Dr. Oliver Michler, TU-Dresden, Germany Chair Petre Dini</p>
10:00 - 10:15	Coffee Break
10:15 - 12:00	Session 13 [BIOTECHNO, SIGNAL]
12:00 - 12:15	Coffee Break
12:15 - 14:15	<p align="center">Panel #4 Theme: AI-technologies and Computation Challenges Moderator: Emeritus Prof. Dr. Malcolm Crowe, University of the West of Scotland, UK Panelists Prof. Dr. Constantine Kotropoulos, Aristotle University of Thessaloniki, Greece Prof. Dr. Xiaobo Zhou, UTHealth, USA Prof. Dr. Andreas Schmidt, University of Applied Sciences Karlsruhe, Germany Prof. Dr. Erik Buchmann, Universität Leipzig, Germany</p>
14:15 - 14:30	Farewell and Coffee Closing session: Petre Dini

Recommended tourist objectives to be visited on your own:

Corinth: <http://www.visitgreece.gr/en/destinations/korinthos>

and

Corinthian Canal: https://en.wikipedia.org/wiki/Corinth_Canal

(~ 85 km / 53 miles far from Athens)

Athens: <http://www.stoa.org/athens/> <http://www.athensguide.com/>

- a. Visit the Agora, Lechaion Street and the Apollo temple
- b. Visit the Acropolis, the symbol of Athens. Walk to Areopag (Paulus prediction place) over Agora (ancient market place)
- c. Visit the Downtown of Athens: Syntagma Square, the Zeus Temple and National Garden, the University, the Academy of Science and the National Library of Athens, the King's Palace and the Olympic Stadium, where the first Olympic Games had taken place.
- d. Visit the New Acropolis Museum.

e. Visit Vouliagmeni area: <https://en.wikipedia.org/wiki/Vouliagmeni>

d. Visit Sounion: <https://en.wikipedia.org/wiki/Sounion>

===

Session 1 [ENERGY, AIHearth]

Session Chair: Dirceu Cavendish

The Analysis of California Fire Perimeters Data Using Geographic Information Systems to Examine the Correlation Between Population Density and Acres Burned

Vivian Sultan, California State University, USA

On Sound Experiment Execution with Learning Agents in CPES

Eric Veith, Carl von Ossietzky University Oldenburg, Germany

Pathways to Sustainability: A Case Study on Engaging Citizens in Renewable Energy Evolvment

Lasse Berntzen, University of South-Eastern Norway, Norway

ChatGPT's Accuracy in Answering the National Medical Examination in Japan

Takayuki Nakano, Kyoto Prefectural University of Medicine, Japan

Efficacy of an AI-based Weight Loss Digital Therapeutics Platform: A Multidisciplinary Perspective

Sarfraz Khokhar, Rasimo Systems, Raleigh, USA

Session 2 [INTERNET, ICWMC]

Session Chair: Vivian Sultan

Exploration of Cybersecurity Posture: Analysis of Global IP Addresses and External Services in Small and Medium-sized Enterprises

Keisuke Tanaka, Ritsumeikan University, Japan

Data-Driven IoT Ecosystem for Cross Business Growth: An Inspiration Future Internet Model with Dataspace at the Edge

Parwinder Singh, Aarhus University, Denmark

Enhancing Ultra-Wideband Localization Accuracy Using Spatial Filtering

Fahad Alsifiany, King Fahad Security Collage, Saudi Arabia

Session 3 [ICNS, WEB, HUSO, BRAININFO, AIHealth]

Session Chair: Takayuki Nakano

Anomaly Detection by Monitoring Communication Volume at the Process Level of Each Host in SDN

Naoya Kitagawa, National Institute of Informatics, Japan

Transparency in Privacy Policies

Erik Buchmann, Universität Leipzig, Germany

Bianca Bartelt, Fraunhofer Institute for Computer Graphics Research (IGD), Germany

How do Abstraction and Emotions Travel Different Spaces?

Fernanda Elliott, Grinnell College, USA

A Bio-Inspired Self-Learning Neuromorphic Solid-State-System
Rory Lewis, University of Colorado, Colorado Springs, USA

Can we explain AI? - Explainable AI in the Health Domain as Told Through Three European Commission-funded Projects
Robin Renwick, Trilateral Research Ltd, Ireland

Session 4 [SIGNAL, ENERGY]

Session Chair: Bianca Bartelt

Mixture-based Hybrid Regularization Method for Blind Image Deconvolution
Linghai Kong, Institute of Applied Physics and Computational Mathematics, China

LiDAR Data Processing for Utility Asset Management and Fire Risk Assessment
Vivian Sultan, California State University, Los Angeles, USA

Reconstruction of High-energy X-ray Source using L-Cylinder Imaging Device
Haibo Xu, Institute of Applied Physics and Computational Mathematics, China

Paintings-100: A Diverse Painting Dataset for Large Scale Classification
Atreyee Sinha, Edgewood College, USA

Fractional Order Variational Approach for Image Denoising and CT Reconstruction
Suhua Wei, Institute of Applied Physics and Computational Mathematics, China

Session 5 [LLMSDI/INTERNET]

Session Chair: Aurora González-Vidal

LLMSDI: OSS LLMs and Decentralized Systems for Search, Discovery and Indexing on the Internet
Aurora González-Vidal, University of Murcia, Spain

Verif.ai: Towards an Open-Source Scientific Generative Question-Answering System with Referenced and Verifiable Answers
Adela Ljajić, Institute for Artificial Intelligence Research and Development of Serbia, Serbia

Science Checker Reloaded: A Bidirectional Paradigm for Transparency and Logical Reasoning
Loic Rokotoson, Opscopic, France

Building Authentic AI: The OriginTrail Decentralized Knowledge Graph and Knowledge Mining
Branimir Rakik, Origin Trail, Slovenia

Generative-AI and Elections: Are Chatbots a Reliable Source of Information for Voters?
Sonia Tabti, AI Forensics, France

OKLLM - Online Knowledge Search for LLM innovations
Andy Donald, University of Galway, Ireland

Session 6 [INTELLI]

Session Chair: Vítor Pinto

Generation of Captions Highlighting the Differences between a Clothing Image Pair with Attribute Prediction

Kohei Abe, Hokkaido University, Japan

Analysis of Weather Information and Road Surface Images for Snow Removal Dispatch Prediction
Hiroki Okura, Hokkaido University, Japan

A Proposal of Road Network Hierarchization Method Based on Betweenness Centrality for Application to Vehicle Routing Problems
Masayuki Shimizu, Hokkaido University, Japan

Evaluation of Request Order Decision Strategy in the Selection of Substitute Employees for Shift Management Tasks
Tomoya Chisaka, Hokkaido University, Japan

Session 7 [VEHICULAR I]

Session Chair: Elena Haller

Gaze and Coordination in Collision Avoidance between Personal Mobilities
Yuki Ninomiya, Nagoya University, Japan
Hitoshi Terai, Kindai University, Japan

Replicating the Nature of Cooperative Behavior in the First-Person Perspective
Shota Matsubayashi, Nagoya University, Japan

The Smart Highway to Babel: The Coexistence of Different Generations of Intelligent Transport Systems
Oscar Molina, Halmstad University, Sweden

Enhancing Light Field Video Compression Efficiency via View Selection and Synthesis Techniques
Maissan Bazazeh, University of British Columbia, Canada

Session 8 [ICAS]

Session Chair: Andreas Schmidt

Trend Analysis of Regime Change and Social Unrest with Laplace Test Statistics
Christian Diaz-Caez, Howard University, USA

ELaneNet: Using Lane Parameters for Better Detection of Lanes in Autonomous Driving Systems
Sagar Naik, University of Waterloo, Canada

Taking Autonomous Mobile Robots and Humans into the Industrial Metaverse: An Empirical Study in the Automotive Industry
Taru Hakanen, VTT Technical Research Centre of Finland, Finland

DebiAI: Open-Source Toolkit for Data Analysis, Visualisation and Evaluation in Machine Learning
Faouzi ADJED, Institut de Recherche Technologique SystemX, France

Session 9 [DBKDA]

Session Chair: Juho Mäkiö

MosaicDB: An Efficient Trusted / Untrusted Memory Management for Location Data in Database
Tomoya Suzuki, Nara Institute of Science and Technology, USA

Implementing the draft Graph Query Language standard: The Financial Benchmark

Malcolm Crowe, University of the West of Scotland, UK

Friedrich Laux, Reutlingen University, Germany

Constructing and Analyzing Different Density Graphs for Path Extrapolation in Wikipedia

Constantine Kotropoulos, Aristotle University of Thessaloniki, Greece

Web Components for Database Developers

Andreas Schmidt, Karlsruher Institut für Technologie, Germany

Ambiguity of Fuzzy Measure and Inner Dependency Matrix in AHP from a Viewpoint of Sensitivity Analysis

Shin-ichi Ohnishi, Hokkai-Gakuen University, Japan

Session 10 [DBKDA]

Session Chair: Malcolm Crowe

Research and Application of Environmental Risk Assessment Model for Marine Mobile Risk Sources

Shengwen Cao, National Marine Data and Information Service, China

Construction and Practice of Marine Knowledge Service System

Lili Song, National Marine Data and Information Service, China

Research and Implementation of Science Data Collection Model based on Blockchain

Xiaoyi Jiang, National Marine Data and Information Service, China

Session 11 [VEHICULAR II, INTELLI]

Session Chair: Oscar Molina

Offloading Platooning Applications from 5.9 GHz V2X to Radar Communications: Effects on Safety and Efficiency

Elena Haller, Halmstad University, Sweden

Autonomous Platooning of General Connected Vehicles Using Bayesian Receding Horizon Control

Tomonari Furukawa, University of Virginia, USA

A Numerical Investigation of Deformable Soil-Tire Interaction

Alexandrina Untaroiu, Virginia Tech, USA

Costin Untaroiu, Virginia Tech, USA

Using a Dexterous Robotic Hand for Automotive Painting Quality Inspection

Vitor Pinto, DIGI2, SYSTEC, FEUP, Portugal

Session 12 [AIHealth]

Session Chair: Rory Lewis

Human-AI Collaboration Cycle in the Development Stage of an AI-enabled System

Pi-Yang Weng, National Chengchi University, Taiwan

Cancer: Investigating the Impact of the Implementation Platform on Machine Learning Models

Amina Souag, Canterbury Christ Church University, UK

Predictive Analytics for Emergency Department Visits Based on Local Short-term pollution and weather exposure

Isabella Della Torre, GPI SpA, Italy

Ismaela Avellino, GPI SpA, Italy

Evaluating Text Pre-Processing Strategies for Clinical Document Classification with BER

Sarah Miller, University of Leeds, UK

Session 13 [BIOTECHNO, SIGNAL]

Session Chair: Oliver Michler

Cell Cycle Pseudotime Estimation for Single Cell RNA-seq Data

Xiaobo Zhou, University of Texas Health Science Center, USA

Evaluation of Methods to Study the Microbiome of Activated Sludge: Selection of 16S rRNA Fragment and Reference Database

Sławomir Ciesielski, University of Warmia and Mazury in Olsztyn, Poland

Evaluation of Multi-Angle System for Reflecting Piano Lessons

Md Saidi Muhammad Ashraf Naim, Tokai University, Japan