Onsite Activities (*Preliminary*) Program

IARIA Congress 2024 & DigiTech 2024

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

Hotel Novotel Porto Gaia
Rua Martir Sao Sebastiao, Afurada,
4400-499 Vila Nova de Gaia
Phone: +351 22 772 8700
email: h1050@accor.com

Updated as of June 27, 2024

The program will be continuously updated.

IARIA Congress 2024: **https://www.iaria.org/conferences2024/ProgramIARIACongress24.html**

DigiTech 2024: **https://www.iaria.org/conferences2024/ProgramDIGITAL24.html**

Timezone converter: **https://www.worldtimebuddy.com/**

Time slots	Activity

Sunday, June 30

Time slots	Activity
12:00 pm	**Registration starts** The registration desk is located in front of the conference rooms. The reception is operating during the entire conference.
13:30 - 13:45	**Opening session**
13:45 - 14:45	**Invited Speech** **Theme:** Increasing Deep Space Network Utilization with Reduced Setup Time **Lecturer** Chief Syst. Eng. Timothy T. Pham, Jet Propulsion Laboratory, NASA, USA **Chair** Petre Dini
14:45 - 15:00	**Coffee Break**
15:00 - 16:00	**Tutorial #1** **Theme** Retrieval-Augmented Generation (RAG) Fundamentals and Large-Scale Deployment **Tutorial lecturer** Dalmo Cirne, Workday, Inc., USA Chair Eugen Borcoci
16:00 - 16:15	**Coffee**

16:15 - 18:00	**Open Discussion #1** **Theme:** A Deep Dive on AI-tools Hallucinations **Coordinators** Prof. Dr. Petre Dini, IARIA, USA/EU Dalmo Cirne, Workday, Inc., USA
18:00 - 18:30	**Social Networking**
18:30 - 20:00	**Welcome Cocktail**

Monday, July 1

09:00 - 10:00	**Keynote Speech** **Theme**: Routing Advances in Unmanned Aerial Vehicle Networks **Speaker** Prof. Dr. Eugen Borcoci, National University of Science and Technology POLITEHNICA Bucharest, Romania **Chair** Timothy T. Pham
10:00 - 10:30	**Coffee Break**
10:30 - 12:15	**Session 1 [IARIA Congress, DIGITAL]**
12:15 - 13:45	Lunch on your own
13:45 - 15:30	**Panel #1** **Theme:** Digital Healthcare Services **Moderator** Prof. Dr. Ali Alouani, Tennessee Technological University, USA **Panelists** Lect, Dr rer nat. Uwe Riss, Eastern Switzerland University of Applied Sciences, Switzerland Prof. Dr. Julio Teixeira, Universidade Federal de Santa Catarina, Brazil Dr. Ejike Nwokoro MD, MPH, Head of Patient Insights & Data Strategy, HealthNet, UK Prof. Dr. Tatiana Kalganova, Brunel University London. UK
15:30 - 16:00	**Coffee**
16:00 - 17:45	**Session 2 [IARIA Congress, IoTAI]**
17:45 - 18:15	**Coffee Break**
18:15 - 20:00	**Ad Hoc Open Debate** **Theme:** AI Now, as of July 2024 - Achievements, Challenges, Potential Dangers **Igniters** Prof. Dr. Tatiana Kalganova, Brunel University London. UK Emeritus Prof. Dr. Malcolm Crowe, University of the West of Scotland, United Kingdom Prof. Dr. Petre Dini, IARIA, USA/EU

Tuesday, July 2

09:00 - 10:00	**Keynote Speech** **Theme**: Digital Transformation in Low-Resource Contexts **Speaker** Prof. Dr. Silvia Figueira, Santa Clara University, USA **Chair** Júlio Monteiro Teixeira

10:00 - 10:30	**Coffee Break**
10:30 - 12:30	**Session 3 [GPTMB/AIMEDIA]**
12:30 - 13:45	Lunch on your own
13:45 - 14:45	**Keynote Speech** **Theme**: A Multi-Agent Approach for Evacuation Support Systems **Speaker** Prof. Dr. Yasushi Kambayashi, Sanyo-Onoda City University, Japan **Chair** Silvia Figueira
14:45 - 15:00	**Coffee**
15:00 - 16:45	**Panel #2** **Theme:** AI-based IoT Systems Optimization **Moderator** Prof. Dr. Yasushi Kambayashi, Sanyo-Onoda City University, Japan **Panelists** Prof. Dr. Eugen Borcoci, National University of Science and Technologies POLITEHNICA Bucharest, Romania Prof. Dr. Fan Wu, Tuskegee University, USA Prof. Dr. Chia-Mei Chen, National Sun Yat-sen University, Taiwan Prof. Dr. Robert Laurini, INSA Lyon | University of Lyon, France
16:45 - 17:00	**Coffee**
17:00 - 18:45	**Session 4 [IARIA Congress]**
18:45 - 19:15	**Coffee Break**
19:15 - 20:30	**Open Discussion #2** **Theme:** Impact of AI Tools on Online Social Networks **Coordinators** Prof. Dr. Matthias Harter, RheinMain University of Applied Sciences, Germany Emeritus Prof. Dr. Malcolm Crowe, University of the West of Scotland, United Kingdom

Wednesday, July 3

09:00 - 10:00	**Keynote Speech** **Theme**: Small-Data Deep Learning for Detection and Classification of Lesions in Medical Images **Speaker** Prof. Dr. Kenji Suzuki, Tokyo Institute of Technology, Japan **Chair** Matthias Harter
10:00 - 10:30	**Coffee Break**
10:30 - 12:30	**Session 5 [IARIA Congress, IoTAI]**
12:30 - 14:00	Lunch on your own
14:00 - 15:00	**Keynote Speech** **Theme:** Levels of Validation - A Prototyping Approach for Digital Solutions and Content Preferences **Speaker** Prof. Dr. Júlio Monteiro Teixeira, Universidade Federal de Santa Catarina | UFSC, Brazil

	Chair Malcolm Crowe
15:00 - 15:15	Coffee
15:15 - 17:00	**Session 6 [IoTAI, IARIA Congress]**
17:00 - 17:30	**Coffee Break**
17:30 - 19:15	**Panel #3** **Theme:** Advances on Data Processing and Computation Power Optimization **Moderator** Prof. Dr. Constantine Kotropoulos, Aristotle University of Thessaloniki, Greece **Panelists** Emeritus Prof. Dr. Fritz Laux, Reutlingen University, Germany Prof. Dr. Tatiana Kalganova, Brunel University London. UK Prof. Dr. Matthias Harter, RheinMain University of Applied Sciences, Germany Prof. Dr. Constantine Kotropoulos, Aristotle University of Thessaloniki, Greece
19:15 - 19:30	**Coffee**
19:30 - 20:15	**Tutorial #3** **Theme**: System Modeling of the RBT-based Trigger-RAW Channel-Access Method for IEEE 802.11ah IoT Network **Tutorial lecturer** Prof. Dr. Chung-Ming Huang, National Cheng Kung University, Taiwan **Chair** Júlio Monteiro Teixeira
20:30 - 23:30	**Gala Dinner (Novotel Hotel)**

Thursday, July 4

09:00 - 10:00	**Open Discussion #3** **Theme**: AIMEDIA - On Universe, Metaverse, Multiverse, Omniverse **Moderators** Prof. Dr. Stephan Böhm, RheinMain University of Applied Sciences, Germany Prof. Dr. Matthias Harter, RheinMain University of Applied Sciences, Germany
10:00 - 10:15	**Coffee**
10:15 - 12:00	**Panel #4** **Theme:** AI Literacy and Digital Pollution **Moderator** Emeritus Prof. Dr. Malcolm Crowe, University of the West of Scotland, United Kingdom **Panelists** Prof. Dr. Robert Laurini, INSA Lyon	University of Lyon, France Prof. Dr. Silvia Figueira, Santa Clara University, USA Dr Njideka Nto, Medical Director of Mediclinic Dubai Mall, Dubai, UAE Prof. Dr. Petre Dini, IARIA, USA/EU
12:00 - 12:30	**Coffee break**
12:30 - 14:15	**Session 7 [IARIA Congress/INTECHS]**
14:15 - 14:30	**Coffee**
14:30 - 16:15	**Session 8 [Digital, GPTMB, IARIA Congress]**
16:15 - 16:45	**Coffee break**
16:45 - 18:00	**Open Discussion #4**

	Theme: (de)generative AI - There is a Bad Moon on the Rise! **Coordinators** Prof. Dr. Petre Dini, IARIA, USA/EU Dr. Ejike Nwokoro MD, MPH, Head of Patient Insights & Data Strategy, HealthNet, UK Dr. Roger Tilley, Sandia National Laboratories, USA
18:00 - 18:15	**Farewell and Coffee** **Closing session: Petre Dini**

Recommended tourist objectives to be visited on your own:

Details: https://www.iaria.org/conferences2022/TouristICDS22.html

Unique: Porto wine caves:

Caves Cálem: https://www.tripadvisor.com/Attraction_Review-g580268-d243625-Reviews-Porto_Calem-Vila_Nova_de_Gaia_Porto_District_Northern_Portugal.html
Caves Calém at Gaia waterfront is one of the most famous and most visited cellars for wine tours in Porto. Visits to Caves Calém include a guided tour to the cellar and its ancient traditions, followed by a tasting of Port wine - white and special reserve.

Burmester Porto Wine Cellars and Wine Tasting: https://sogevinus.com/tourism/burmester-cellars/
Burmester wine cellars are located in Gaia by the bottom deck of Luiz I bridge. There are guided tours of the cellars, filled with history and interesting stories.

Session 1 [IARIA Congress, DIGITAL] - Monday 10:30am
Session Chair: Malcolm Crowe

50007 Fostering Trust and Quantifying Value of AI and ML
Dalmo Cirne, Workday, Inc., USA

50056 Towards BIM-integrated Labour Productivity Measurement
Pauline Harou, Université Libre de Bruxelles (ULB), Belgium

10011 Exploring the Utilization of Generative Artificial Intelligence Tools with Design Students
Julio Teixeira, Universidade Federal de Santa Catarina, Brazil

58001 Using artificial intelligence for object localization in autonomous vehicles
Taihao Li, Ostfalia University of Applied Sciences, Germany

Session 2 [IARIA Congress, IoTAI] - Monday 16:00
Session Chair: Dalmo Cirne

50010 Phytopathogenic status induced by Xylella Fastidiosa in olive groves in southern Italy revealed by Visibility Graph analysis of MODIS satellite evapotranspiration time series
Luciano Telesca, Institute of Methodologies for Environmental Analysis, Italy

50041 Add on Navigation & Control System for Outdoor Autonomous Wheelchair for Physically and Mentally Challenged People
Ali Alouani, Tennessee Technological University, USA

50061 Database Technology Evolution III: Knowledge Graphs and Linked Data
Malcolm Crowe, University of the West of Scotland, United Kingdom

20004 Identifying Vulnerable Third-party Components in IoT Firmware Using Deep Learning
Chia-Mei Chen, National Sun Yat-sen University, Taiwan

Session 3 [GPTMB/AIMEDIA] - Tuesday, 10:30am
Session Chairs: Stephan Böhm, Matthias Harter

Introduction
Stephan Böhm, RheinMain University of Applied Sciences, Germany
Matthias Harter, RheinMain University of Applied Sciences, Germany

38003 An empirical taxonomy for rating trustability of LLMs
Matthias Harter, RheinMain University of Applied Sciences, Germany

38004 Human Perception and Classification of AI-Generated Images: A Pre-Study based on a Sample from the Media Sector in Germany
Stephan Böhm, RheinMain University of Applied Sciences, Germany

38005 Human or AI? Exploring the Impact of AI Tools on Audio Content Production and Perception
Barbara Brandstetter, Neu-Ulm University of Applied Sciences, Germany

Open discussion and Closing remarks
Moderators | Stephan Böhm, Matthias Harter

Session 4 [IARIA Congress] - Tuesday, 17:00
Session Chair: Barbara Brandstetter

50119 Prediction of Residential Building Energy Star Score: A Case Study of New York City
Fan Wu, Tuskegee University, USA

50128 Exploring Cooperative Positioning and Dynamic Base Stations for Potential Vehicular Positioning Accuracy Improvement: A Comprehensive Approach
Fabricio Botelho, Bosch Car multimedia, Portugal

50112 Surface Defect Detection System for AI Vision-Based Press Formed Products
Seung Ho Lee, Pusan National University, South Korea

50131 A Comparative Analysis of CPU and GPU-Based Cloud Platforms for CNN Binary Classification
Fan Wu, Tuskegee University, USA

50115 Bus Indoor Situation Monitoring System Based on Congestion Model Using Lightweight Platform
Yun Seob Kim, Pusan National University, South Korea

Session 5 [IARIA Congress, IoTAI] – Wednesday, 10:30am
Session Chair: Luka Lukač

50079 Symbolic Unfolding of Similarity-based Fuzzy Logic Programs

Gines Moreno, University of Castilla- LaMancha, Spain

50088 Optimizing Value Creation in Service System Design
Uwe Riss, Eastern Switzerland University of Applied Sciences, Switzerland

20011 Development of a UAV-based Disaster Evacuation Support System: An Interim Report
Yasushi Kambayashi, Sanyo-Onoda City University, Japan
Yuta Sekiguchi, Nippon Institute of Technology, Japan

50104 Camera Model Identification Using Audio and Visual Content from Videos
Constantine Kotropoulos, Aristotle University of Thessaloniki, Greece

Session 6 [IoTAI, IARIA Congress] – Wednesday, 15:15
Session Chair: Uwe Riss

20006 Development of AI Learning Materials using Physical Computing
Toshiyasu Kato, Nippon Institute of Technology, Japan

50069 Prediction of Centroid Pixel Values in Image Triangulations Using a Graph Neural Network
Luka Lukač, University of Maribor, Slovenia

20015 Deciphering Brand Identity from Package: Visual Feature Analysis through Convolutional Neural Networks
Asaya Shimojo, Konica Minolta, Inc., Japan

50084 A Comparative Study of Computational Intelligence Methods for Audio Analysis in Animal Identification within Tropical Ecosystems
Maria Jose Guerrero Muriel, Universidad de Antioquia, Colombia

Session 7 [IARIA Congress/INTECHS] - Thursday, 12:30pm
Session Chair: Ejike Nwokoro

Introduction
Ejike Nwokoro, HealthNet Homecare, United Kingdom

58003 Complementing the impact & economic potential of Patient Support Programs through Artificial Intelligence (AI) augmentation
Joshua Hinton, London School of Economics and Political Science, UK

58004 Physician Awareness of Cybersecurity risks, and the barriers to implementation of cybersecurity measures in a Private Healthcare Setting
Njideka Nto, Mediclinic, United Arab Emirates

58006 Patient-Provider Communication Modalities, Patient Preferences and Medication Adherence: An In-depth Analysis
Ben Malin, Brunel University London, United Kingdom

Open discussion and Closing remarks
Moderator | Ejike Nwokoro, HealthNet Homecare, United Kingdom

Session 8 [Digital, GPTMB, IARIA Congress] - Thursday, 14:30
Session Chair: Eugen Borcoci

10020 Ideating and Designing Mobile Apps for Immigrants from Shared Experience
Silvia Figueira, Santa Clara University, USA

30002 Exploring the use of Gen-AI by International Students in France
Robert Laurini, INSA Lyon | University of Lyon, France

50124 Security and IoT Applications of the Cryptosystem TinyJambu
Amparo Fuster-Sabater, CSIC, Spain

50076 Real-time Optimization of Testbeds for Cloudified Radio Access Networks Using Artificial Intelligence
Animesh Singh, Ericsson AB, Sweden

50092 Identifying the Invisible: A Comprehensive Approach to Distinguishing Software Bots
Zhixiong Chen, Mercy College, USA zchen@mercy.edu

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