

Program in Nice, on site
(last updated on July 15th, 2022)

Monday, July 25

13:00 Registration starts

Coordinator: Dr. Lorena Parra Boronat

13:00 - 17:00 Socializing, coffee

16:15 Opening Session

16:30 - 17:30 Keynote speech

Beyond Industry 4.0/5.0: Towards a Smart Digital Green Society - A Canadian Perspective

Prof. Dr. Hany Moustapha, École de Technologie Supérieure, Montréal, Canada

17:30 - 17:45 Break

17:45 - 19:30 Session #1 [IARIA Congress]

Session Chair: Hany Moustapha

Identification of tropical dry forest transformation in the Colombian Caribbean region using acoustic recordings through unsupervised learning

Claudia-Victoria Isaza-Narvaez, Universidad de Antioquia, Colombia

Nestor-David Rendon-Hurtado, Universidad de Antioquia, Colombia

Investigating hand dexterity in patients with hand injuries through a self-made data collection glove

Jongchen Chen, National Yunlin University of Science and Technology, Taiwan

An Optimistic, Restful, Serialized RDBMS using immutable structures

Malcolm Crowe, University of the West of Scotland, United Kingdom, Scotland

Using Locally Weighted Regression to Estimate the Functional Size of Software: A Preliminary Study

Luigi Lavazza, Università degli Studi dell'Insubria, Italy

19:30 - 20:30 Welcome Cocktail

Tuesday, July 26

9:15 - 10:15 Keynote speech

Theme: Volumetric Communication across Artificial Reality Continuum. Applications in Telehealth

Prof. Dr. Krzysztof Pietroszek, Institute for Immersive Designs, Experiences, Applications, and

Stories (Institute for IDEAS), American University in the Film and Media Arts Division of the School of Communication, USA

10:15 - 10:30 Coffee break

10:30 - 12:30 Session #2 [MODERN SYSTEMS]

Session Chair: Britt van Leeuwen

Developing European Defense Strategy for Electromagnetic Resilience Infrastructure Network
Alan Martin Redmond, CSTB, France

Investigating the Conditions of Emerging Requirements of Advanced Technologies for BIM-SPEED Platform
Alan Martin Redmond, CSTB, France

State of Affair in Terms of Big Data Utilization in Complex System Engineering Organizations
Fahim Salim, University of South-Eastern Norway, Norway

AutoDrone - Use of Autonomously Operated Drone Technology in Forest Inventory
Oliver Michler, Technical University Dresden, Germany

12:30 - 14:30 Lunch Break

14:30 - 16:30 Panel 1

Theme: **IoT-based Systems Challenges**

- IoT, buildings, agriculture, transportation, sensing, smart cities, embedded intelligence

Chair

Petre Dini, IARIA, USA/EU

Panelists

Alan Martin Redmond, Centre Scientifique et Technique du Bâtiment, France

Fahim Salim, University of South-Eastern Norway, Norway

Oliver Michler, TU Dresden, Germany

Lorena Parra Boronat, Universitat Politècnica de València, Spain

16:30 - 16:45 Coffee

16:45 - 17:45 Invited speech

Theme: Analyzing Deep Space Network System Performance and Lessons Learned

Timothy Pham, Jet Propulsion Laboratory, USA

17:45 - 18:00 Coffee break

18:00 - 19:45 Session #3 [MODERN SYSTEMS, PREDICTION]

Session Chair: Oliver Michler

Implementation of the RAM Analyses into a Discrete Event Simulation of a Process in Early Stages of its Development

Martin Kubic, AXONE, France

Ensure a Stable Power Grid when using Renewable Energy

Mo Mansouri, University of South-East Norway, Norway

Prediction solutions

Call Center Model for Online Mental Health Support

Tim Rens de Boer, Centrum Wiskunde & Informatica, The Netherlands

Micro-Road-Pricing for Highway Toll Collection with Reserving Spatio-Temporal Grid in the Era of Automated Vehicles [POSTER]

Habibullah Babak, Kenya Sato

20:00 - 23:00 Conference Dinner

Wednesday, July 27

9:15 - 10:15 Keynote speech

Theme: Scientific Computing: Is Performance only what Matters? Experience of Running a Local Data Center at University of Stuttgart

Dr. Alexey Cheptsov, Information Service Center of the University of Stuttgart (TIK), Germany

10:15 - 10:30 Coffee break

10:30 - 12:30 Session #4 [IARIA Congress]

Session Chair: Youcef Abdelsadek

Advanced Functional Amorphous Magnetic Microwires for Technological Applications”

Arcady Zhukov, University Basque Country, Dept. Polymers Adv. Mater., Spain

Spatial and Temporal Registration of Asynchronous Multi-Sensors for Minimally Invasive Surgery Applications”

Ali Alouani, Tennessee Tech University, USA

Electronic Surveillance and Security Applications of Magnetic Glass-coated Microwires”

Valentina Zhukova, University of the Basque Country, UPV/EHU, Fac. of Chemistry, Dpto. Polymers and advanced materials, Spain

Detecting Novel Variants of Application Layer (D)DoS Attacks using Supervised Learning”

Etienne van de Bijl, Centrum Wiskunde & Informatica, Netherlands

12:30 - 14:30 Lunch Break

14:30- 15:30 Keynote speech

Theme: The Security in The Internet of Things: Challenges and Proposed Solutions
Assoc. Prof. Dr. Fehmi Jaafar, Quebec University a Chicoutimi, Canada

15:30 - 15:45 Coffee

15:45 - 17:30 Panel 2

Theme: **Challenges of AI-based Technologies and Applications**

- explainability, trustability, cognition, security, cognitive impairments, measurement accuracy, etc.
- networking, decisions, health, virtual reality, human-computer interactions, etc.

Chair

Petre Dini, IARIA, USA/EU

Panelists

Luigi Lavazza, Università degli Studi dell'Insubria, Italy

Malcolm Crowe, University of the West of Scotland, United Kingdom

Arcady Zhukov, University Basque Country, Dept. Polymers Adv. Mater., Spain

Dirceu Cavendish, Kyushu Institute of Technology, Japan/USA

17:30 - 17:45 Coffee break

17:45 - 19:45 Session #5 [IARIA Congress, SOCIETY TRENDS]

Session Chair: Etienne van de Bijl

A Data-Reuse Approach for the RLS-DCD Algorithm”

Cristian-Lucian Stanciu, University Politehnica of Bucharest, Romania

Ionut-Dorinel Ficiu, University Politehnica of Bucharest, Romania

Constantin Paleologu, University Politehnica of Bucharest, Romania

Digital Twin based industrial services - Real business or just hype?

Jukka Hemilä, VTT Technical Research Centre of Finland Ltd, Finland

Recommendation ranking based on AHP Approach for Productivity Improvement in SME context

Youcef Abdelsadek, Laboratoire LCOMS, Université de Lorraine, France

Explainable Kinship: The Importance of Facial Features in Kinship Recognition

Britt van Leeuwen, Centrum Wiskunde & Informatica, Netherlands

The Digital Transformation of Education

Deniss Ščeuļovs, Riga Technical University, Latvia

Thursday, July 28

9:00 - 10:00 Social activities

10:00 - 12:00 Open discussion

Theme: **The Future of Recognition Systems**

(status, challenges, vision)

Coordinators

Malcolm Crowe, University of the West of Scotland, United Kingdom

Oliver Michler, TU Dresden, Germany

Hany Moustapha, École de Technologie Supérieure, Montréal, Canada

Topics

Object recognition

Ethics on human behavior recognition

Face-recognition

Voice-recognition

Crowd recognition

Guidelines and Laws

Rights violation

Surveillance

Fake information

Lack of accountability

Lack of wrongdoers' punishment

12:00 Farewell