The Eighth International Conference on Cyber-Technologies and Cyber-Systems
CYBER 2023

September 25, 2023 to September 29, 2023 - Porto, Portugal

Submit a Paper
Registration
Camera Ready

Deadlines

Submission: Aug 20, 2023
Notification: Aug 31, 2023
Registration: Sep 15, 2023
Camera Ready: Sep 05, 2023

Deadlines differ for Regular Papers, Short Papers and the conference. Some pages for special deadlines (such as Call for Papers) are hidden.

Past Events

Cyberworlds

Publication

Published by IARIA and cooperating with Xpert Publishing Services. Archived in the Library of Congress, USA. Crossref Member. ISSN: 2326-9936. Prints available at Curran Associates, Inc. Papers are indexed and listed at a variety of journal databases.

Affiliated Journals

Due to multiple requests, the submission deadline has been moved.

Onsite and Online Options: In order to accommodate a large number of situations, we are offering the option for presenting papers either in person or online. Papers will be published in the same way.

For 2023, all events will be held in a hybrid mode with five options: on site or virtual choices (live, prerecorded video, voice presentation slides, and pdf slides).

We hope for better times allowing us to return to the tradition of all-in-person conferences. However, we are ready to adapt any world-wide the conditions dictate.

NexTech 2023 Congress

Conference will be virtual online and onsite in Porto

Hotel Neverland Porto-Gaia
Rua Manin Gaia Sadomeu, Alvorada,
4400-346 Vila Nova de Gaia
Phone: +351 22 010 0 0800

Note: This event is a mix of online and on-site participation. All contributions are posted below; those presenting onsite have their own schedule, as a subset of the entire program.

On Site Program

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

TUTORIALS

Monday, September 25
T1: Breaking Barriers: A Deep Dive into Bypassing Next-Gen DFA and MFA Security Measures
Dr. Muhammad Shahzad, Amin Founder and CEO Vouritte/Nefarius/Author, Pakistan
- presentation slides
- video presentation
- quizzes
- short tips

OPEN DISCUSSIONS

Wednesday, September 27
OD1: Is Blockchain Ready to Lead and Where It Shouldn't
Prof. Dr. Ulrike Baumann, Research Perspective
Coordinator: Prof. Dr. Pierre Dini, IARIA, USA/EU
- presentation slides
- video presentation
- short tips

KEYNOTES

Monday, September 25
K1: Application of Random Walks to Bayesian Classification and Business Decision Problems
Prof. Dr. Clement Leung (Edsel), Chinese University of Hong Kong (CUHK) - Shenzhen, China
- presentation slides
- video presentation
- short tips

Tuesday, September 26
K2: Cyber-Physical Challenges and Research Directions
Dr. Richard Li, Chief Scientist &VP, Futurewei Technologies Inc., USA
- presentation slides
- video presentation
- short tips

Tuesday, September 26
K3: Big Data Analytics and AI Approaches for Advancing Biomedical Research and Personalized Healthcare
Prof. Dr. Hesham Ali, University of Nebraska at Omaha, USA
- short tips

Wednesday, September 27
K4: Analyzing and Positively Operating Cyber-Physical Systems with Extended Deep Reinforcement Learning Approaches
Dr. Ing. Eric Veith, Carl von Ossietzky University Oldenburg, Germany
- presentation slides
- video presentation
- short tips

DATA ANALYTICS - virtual
A1: Cyber Security Challenges with Mathematics and High-Performance Computing
Dr. Alex V. Kamyar, University of Hawaii at Manoa, USA
- presentation slides
- video presentation
- short tips

Thursday, September 28
A2: Data Analytics Management as a driving Force for the Commonwealth of Pennsylvania Industrial Hemp Engine solutions
Dr. Ing. Dr. Ing. Dimitrios-Emmanouil Linsofer, Thomas Jefferson University - Philadelphia, USA
Coordinators Lois Delcambre, Jeanne Ruane, Mark Sundenberg
- presentation slides
- video presentation
- short tips

Friday, September 29
A3: Data Analytics Research in Smart Manufacturing Systems
Dr. Ilia Polian, University of Porto, Portugal
- presentation slides
- video presentation
- short tips

Friday, September 29
A4: Manufacturing is Becoming Digital: Challenges and Opportunities
Prof. Dr. Ing. Dr. Ing. Dimitrios Emmanouilidis, Porto ECSI, Portugal
- presentation slides
- video presentation
- short tips

PANELS

Tuesday, September 26
Panel A1
Theme: Achievements and Challenges of AI on Medicine and Healthcare
Moderator: Prof. Dr. Evgeny Kharlamo, Sofia University St. Kliment Ohridski, Bulgaria
Panelists:
Prof. Dr. Hesham Ali, University of Nebraska at Omaha, USA
Prof. Dr. Ulrike Baumann, Research Perspective, Hamburg, Germany
Prof. Dr. Sung Hoe Cho, Hanyang University, South Korea
- short slides

Tuesday, September 26
Panel A2
Theme: Security Challenges in Cyber-Systems
Moderator: Prof. Dr. Ing. Eric Veith, Carl von Ossietzky University Oldenburg, Germany
Panelists:
Dr. Alex V. Kamyar, HTG, Technology, Germany
Prof. Dr. Joshua Sipper, US Air Force Sr. Commander and Staff College, USA
Dr. Kaire Rõõm-Kalal, Estonian Academy of Security Sciences, Estonia tbc
Prof. Dr. Ing. Dr. Ing. Dimitrios-Emmanouil Linsofer, Thomas Jefferson University, USA
Prof. Dr. Dimos Ceranoski, Kyushu Institute of Technology/UCLA, Japan/USA
- short slides

Wednesday, September 27
Panel A3
Theme: Security of Electric Grids
Moderator: Prof. Dr. Dimos Ceranoski, Kyushu Institute of Technology/UCLA, Japan/USA
Panelists:
Dr. Tiago Espinha Gasiba, Siemens AG, Germany
Prof. Dr. Ing. Dr. Ing. Dimitrios-Emmanouil Linsofer, USA
Dr. Ing. Eric Veith, Carl von Ossietzky University Oldenburg, Germany
Prof. Dr. Michael Mesarch, Hochschule Darmstadt - University of Applied Sciences, Germany
- short slides

Thursday, September 28
Panel A4
Theme: Challenges of AI-driven Computation and Data Analytics
Moderator: Prof. Dr. Luis Sobrevilla, Thomas Jefferson University - Philadelphia, USA
Panelists:
Prof. Dr. Karsten Böhm, FH Kufstein Tirol Bildungs GmbH, Austria
Prof. Dr. Claudia Hess, St.Interrational University of Applied Sciences, Germany
Prof. Dr. Erik Buchmann, Leipzig University, Germany
- short slides

Thursday, September 28
Panel A5
Theme: Challenges and Gaming in the AI Era
Moderator: Prof. Dr. Mariana Hentz, CTS IUNINOVA, Portugal
Panelists:
Prof. Dr. Erik Buchmann, Leipzig University, Germany
Prof. Dr. Paula Lopes, ISEL/CTS/IUNINOVA, Portugal
Dr. Giuseppe Desolina, Italtel Deutsche Telecom Partner company, Italy
Prof. Dr. Ioannis Karras, Greece
- short slides

REGULAR TRACKS

COPEN 2023, Advances on Core Technologies and Applications
Educational Location Based Augmented Reality Applications for Indoor Spaces: Creating the Application "Exploring the Aquarium of Kastoria"
Georgios Papaioannou, Athanasios Kiourtis
- presentation video - video - full article in Thinking Digital Library

DIGITAL 2023, Advances on Societal Digital Transformation
Could ChatGPT be Your New Project Management Assistant?
Ioana Ghershin, Alina Vasilescu
- presentation video - video - full article in Thinking Digital Library
Verifiable Labels for Digital Services: A Practical Approach
Matti Gjermundrød, Aresh Dadlani
- presentation video - video - full article in Thinking Digital Library
Prompt Engineering: Unleashing the Power of Text Design Framework and ChatGPT to Generate Motivational Exercises for Female Learners in Computer Science
Sibylle Kunz, Claudia Heuer
- presentation video - video - full article in Thinking Digital Library - Powerpoint Slides
A Floodlevel Approach for Automated Billboard Detection
Sazel Avinash Chauan, Dermot Kerr, Sonya Coleman, Hussein Khader
- presentation video - video - full article in Thinking Digital Library
Deep Learning for Billboard Classification
Sazel Avinash Chauan, Dermot Kerr, Sonya Coleman, Hussein Khader
- presentation video - video - full article in Thinking Digital Library
Smart Contracts for Privacy-Preserving Identity Management: Ethics, Regulatory and Technical Challenges
Ioannis Karras, Ioannis Karras, Ioannis Karras, Ioannis Karras, Ioannis Karras, Ioannis Karras, Ioannis Karras
- presentation video - video - full article in Thinking Digital Library

SENSORCOMM 2023, The Seventeenth International Conference on Sensor Technologies and Applications
Cooperative Tracking of People Using Nanowheel LiDARs
Ryoichi Ishikawa, Takeshi Oishi, Katsushi Ikeuchi, Takahiro Sakaguchi
- presentation video - video - full article in Thinking Digital Library
Digital Dataspace and Business Ecosystem Growth for Industrial Roll-to-Roll Laser Printing Manufacturing: A Case Study
Pavlinder Singh, Nafiz Ashik, Justina Karpuzova, Michael Beckley, Prasad Chaudhari
- presentation video - video - full article in Thinking Digital Library
Sensor Data Management
Date: September 28, 2023
Time: 3:00 pm Porto / 10:00 pm Beijing / 4:00 pm Berlin / 9:00 pm Tallinn / 10:00 am New York
Access link: https://us06web.zoom.us/j/89861411192
Passcode: To be emailed to all registered participants

SENSORDEVICES 2023, The Fourteenth International Conference on Sensor Device Technologies and Applications
Communication Average Based Sensing Technique for Cognitive Radio Networks
Djamel Rayaji, Lynd Lakhal, Nacereddine Lazaarni
- presentation video - video - full article in Thinking Digital Library
Cognitive Radio Based Sensing Technique for Vehicular Communication
Abdoul Augustin Hema, Mamadou Hema, Pierre Lorenz, Gervais Ouédraogo, Pierre Hima
- presentation video - video - full article in Thinking Digital Library
Self-localization, Tracking and Navigation Through Visible Light Communication
Ali Ahmad, Ali Ahmad, Ali Ahmad, Ali Ahmad, Ali Ahmad, Ali Ahmad, Ali Ahmad, Pablo Vera
- presentation video - video - full article in Thinking Digital Library
Heat and Current Annealing Effects on Magnetic Properties of Fe-rich Glass-Coated Amorphous Microwires with Different Radius
Valentina Zhukova, Paula Corte-León, Valentina Zhukova, Carlos Blanco-Gonzalez, Mihail Ipatov, Juan Maria Gonzalez, Juan Maria Blanco, Arcadio Zhukov
- presentation video - video - full article in Thinking Digital Library
Sensor Data Management in Smart Cities: Exploring the Intersection of Cloud and Deep Learning
Sohaib Abdullah, Shahbaz Ahmed, Junjunyg Park, Chenwei Shen, Ruo Chen
- presentation video - video - full article in Thinking Digital Library
Ultra-Low Power Design for Autonomous Time synchronized Sensing System Capable of Measuring Acceleration and Images
Nadia Kundur
- presentation video - video - full article in Thinking Digital Library
Beam shaping for a Lidar System for Urban Scenarios
Jan Hegemann, Jan Hegemann, Jan Hegemann, Jan Hegemann, Martin Pfennigbauer, Andreas Hofbauer, Andreas Schjerpvold
- presentation video - video - full article in Thinking Digital Library
Automated Guidance Based on Indoors Visible Light Communication
Ali Ahmad, Ali Ahmad, Ali Ahmad, Ali Ahmad, Ali Ahmad, Pablo Vera
- presentation video - video - full article in Thinking Digital Library

SECURWARE 2023, The Seventeenth International Conference on Emerging Security Information, Systems and Technologies
Lightweight Flow-grained Access Control Mechanism Based on Zero Trust in CPS
Nefel Dhieb, Sherifa Ahmed, Wolfgang Ziegler
- presentation video - video - full article in Thinking Digital Library
Cryptanalysis of Two Lightweight Ciphers Based on Generalized Feistel
*Victor Johnsen, Martin Gilchrist, Erik Buchmann