

The Seventeenth International Conference on Future Computational Technologies and Applications

FUTURE COMPUTING 2025

April 06, 2025 to April 10, 2025 - Valencia, Spain

Submit a Contribution

Registration

Camera Ready

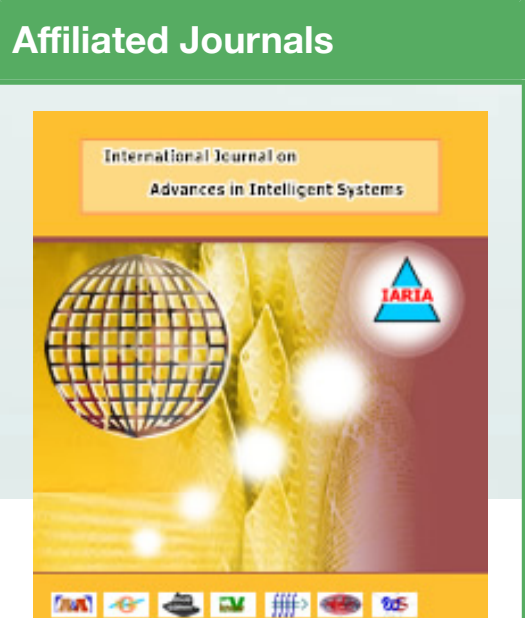
Deadlines

Submission	Jan 20, 2025
Notification	Feb 16, 2025
Registration	Feb 28, 2025
Camera ready	Mar 05, 2025

Deadlines differ for special tracks. Please consult the conference home page for special tracks Call for Papers (if any).

Past Events

Sponsors



Publication

Published by IARIA Press (operated by Open Publication Services)

Arrived in the Open Access IARIA Thinkmind Digital Library

Prints available at [Cunliffe Associates, Inc.](#)
Authors of selected papers will be invited to submit extended versions to a [JGTP Journal Indexing Procedure](#)

Affiliated Journals



FUTURE COMPUTING 2025: Program

Onsite and Online Options: In order to accommodate various situations, we are offering the option for either physical presence or virtual participation (pdf slides or pre-recorded videos).

For 2025, all events will be held in a hybrid mode with five options: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides).

We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.

ComputationWorld 2025 Congress

Conference will be mixed online and on location at

Holiday Inn Express Valencia-Ciudad Las Ciencias
Escritor Rafael Ferreres 22
Valencia, 46013
Spain

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.

Opening Welcome

On Site Program

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

Tutorials

T1. Secure Software Development for the Cloud - On Site

Prof. Dr. Aspen Olmsted, Wentworth Institute of Technology, USA
[presentation slides](#)
- video presentation
- summary
- short bio

T2. Cognitive Sciences and Artificial Intelligence - On Site

Dr. Mika Helsingius, Finnish Defence Research Agency, Finland
[presentation slides](#)
- video presentation
- summary
- short bio

Keynote Speeches

K1. Role of Programmable Data Plane in Attack Detection - Virtual

Sr Lect. Dr. Mah-Rukh Fida, University of Gloucestershire, UK
[presentation slides](#)
- video presentation
- short bio

K2. Applications of Virtual Reality for Cognitive Training amongst Older Adults - On Site

Prof. Dr. Zahra Moussavi, University of Manitoba, Canada
[presentation slides](#)
- video presentation
- short bio

K3. User-centred Design in Robotics and VR - On Site

Prof. Dr. Ray Jones, University of Plymouth, UK
[presentation slides](#)
- video presentation
- short bio

K4. AI and VR for People with Specific Needs - On Site

Prof. Dr. Jérôme Dinet, University of Lorraine, France
[presentation slides](#)
- video presentation
- short bio

K5. A MetaLogic-based Approach to Programming Education - On Site

Prof. Dr. Hans-Werner Sehring is Professor of Software Engineering at Nordakademie University of Applied Sciences, Germany
[presentation slides](#)
- video presentation
- short bio

K6. The Non-Obvious and Non-Trivial Aspects of Updating a Robust Heuristic for a Real-World Scenario AI-centric System - On Site

Dr. Steve Chan, VTIRL, VT, USA
[presentation slides](#)
- video presentation
- short bio

K7. AI and Automation: Transforming Municipal Care Services - On Site

Prof. Dr. Lasse Berntzen, University of South-Eastern Norway, Norway
[presentation slides](#)
- video presentation
- short bio

K8. The Persistent Problems with Cybersecurity: A Negative Example and an Outlook on the Cyber Resilience Act - On Site

Prof. Dr. Sebastian Fischer, Ostbayerische Technische Hochschule Regensburg, Germany
[presentation slides](#)
- video presentation
- short bio

K9. Understanding the College Students' Happiness with Machine Learning and Monte Carlo Methods - Virtual

Prof. Dr. Isaac Galicordo-Castro, University Of Cordoba, Colombia
[presentation slides](#)
- video presentation
- short bio

K10. Data Analytics: How Can We Get It Right? - On Site

Prof. Dr. Joseph G Vella, University of Malta, Malta
[presentation slides](#)
- video presentation
- short bio

Open Discussions

OD1. An Anatomy on largeLM, smallLM and tinyLM (the DeepSeek case) - On Site

Coordinators:
Prof. Dr. Petre Dini, IARIA, USA/EU
Dr. Steve Chan, VTIRL, VT/DE-STE-A - Orlando, USA
[presentation slides](#)

OD2. From Digital Awareness to Digital Literacy - On Site

Coordinators:
Prof. Dr. Petre Dini, IARIA, USA/EU
Prof. Dr. Lasse Berntzen, University of South-Eastern Norway, Norway
[presentation slides](#)

OD3. Software Engineering in AI Era! - On Site

Coordinators:
Prof. Dr. Petre Dini, IARIA, USA/EU
Dr. Steve Chan, VTIRL, VT/DE-STE-A - Orlando, USA
Prof. Dr. Hans-Werner Sehring, NORDAKADEMIE Hochschule der Wirtschaft, Germany
[presentation slides](#)

Panels

P1. Advances in VR Systems for Specialized Cognitive Services - On Site

Moderator:
Prof. Dr. Zahra Moussavi, University of Manitoba, Canada
Prof. Dr. Jérôme Dinet, University of Lorraine, France

Panelists:
Dr. Marius N Varga, University of Plymouth, UK
Dr. Aurelie Mailloux, 2LPN, France
Dr. Dena Bazazian, University of Plymouth, UK
Prof. Dr. Petre Dini, IARIA, USA/EU
[presentation slides](#)

P2. AI-related Challenges on Security of Cloud Services - On Site

Moderator:
Prof. Dr. Andreas Albmuth, Fachhochschule Kiel, Germany

Panelists:
Prof. Dr. Christoph P. Neumann, Ostbayerische Technische Hochschule Amberg-Weiden, Germany
Dr. Steve Chan, VTIRL, VT/DE-STE-A - Orlando, USA
Prof. Dr. Malte Prieß, University of Applied Sciences - Kiel, Germany
Prof. Dr. Aspen Olmsted, Wentworth Institute of Technology, USA
[presentation slides](#)

P3. Challenges on Sensing in Smart Environments - On Site

Moderator:
Prof. Dr. Lasse Berntzen, University of South-Eastern Norway, Norway

Panelists:
Dr. Mika Helsingius, Finnish Defence Research Agency, Finland
Dr. Roger Tilley, Sandia National Laboratories, USA
Prof. Dr. Jaime Lloret Mauri, Universitat Politècnica de Valencia, Spain
[presentation slides](#)

P4. Technology Innovation and Business Management - On Site

Moderator:
Dr. Steve Chan, VTIRL, VT/DE-STE-A - Orlando, USA

Panelists:
Dr. Viktoria Apalkova, School of Management Fribourg (HES-SO), Switzerland
Prof. Dr. Joseph G Vella, University of Malta, Malta
Prof. Dr. Jesper Skjold, Zealand Spillemiljø og erhvervsakademiet, Danmark
Prof. Dr. Hans-Werner Sehring, NORDAKADEMIE Hochschule der Wirtschaft, Germany
Prof. Dr. Lasse Berntzen, University of South-Eastern Norway, Norway
Lektor Sabina Rolsted, Zealand, Denmark
[presentation slides](#)

Special Sessions

CLOUD COMPUTING 1 / 2nd AICLOUDSEC: Securing the Future - Navigating the Intersections of AI, Cloud, and IoT

Introduction
Andreas Albmuth, Sebastian Fischer, Christoph P. Neumann
[presentation slides](#) / [editorial](#)

Kosmoels: Crypto Rug Pull Detection and Prevention by Fusing On- and Off-Chain Data in a Knowledge Graph
Philipp Stangl, Christoph Peter Neumann
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

Practical Acoustic Eavesdropping On Typed Passphrases
Darren Fürst, Andreas Albmuth
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

Graph of Effort: Quantifying Risk of AI Usage for Vulnerability Assessment
Anket Mehra, Andreas Albmuth, Malte Prieß
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

On the Necessity of Measuring Security in IoT
Tobias Eggendorfer, Katja Andresen
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

A Forensic Analysis of GNSS Spoofing Attacks on Autonomous Vehicles
Tobias Reichel, Mathias Gernster, Leo Schiller, Andreas Attenberger, Rudolf Hackenberg, Klara Dolos
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

GFDG: A Genetic Fuzzing Method for the Controller Area Network Protocol
Miguel Stey, Murad Hachani, Philipp Fuxen, Julian Graf, Rudolf Hackenberg
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

Intrusion Detection using Peer-to-Peer Distributed Context-Information for Electric Vehicle Supply Equipment
Julian Graf, Christoph Moser, Philipp Fuxen, Rudolf Hackenberg
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

A Transformer-Based Framework for Anomaly Detection in Multivariate Time Series
Fabian Folger, Murad Hachani, Philipp Fuxen, Julian Graf, Sebastian Fischer, Rudolf Hackenberg
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

Theoretical Integration of Hyperledger Fabric in Gaia-X: Towards an Approach for Federated Data Access
Liron Ahmelti, Klara Dolos, Conrad Meyer, Andreas Attenberger, Rudolf Hackenberg
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AIVR 1 / XRBCAP: VR/AR/XR/MR Environments for Studying Functional Brain Changes in Aging Population

Introduction
Zahra Moussavi
[presentation slides](#) / [editorial](#)

Designing a Naturalistic and Interactive VR Museum Environment With a Realistic Avatar as a Guide for Cognitive Treatment of the Elderly
Amir Bani Saeed, Zahra Moussavi
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Non-Inmersive Virtual Reality as a Safer Alternative for Cognitive Training in Older Adults: Investigating the Effect of Age on Cybersickness
Rashmita Chatterjee, Zahra Moussavi
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Acceptability of an AI-Powered Wearable Ring Sensor for Upper Body Mobility in Individuals with Cognitive Impairment: A Pilot Study
Holly Shannon, Asma Seraj Pour Shoooshtarib, Logan Young, Makara Rolle, Jennifer O'Neil, Jose Carlos Taimasu-Rocha, Dahlia Kairy, Olga Theou, Zahra Moussavi, Ke Peng, Mirella Veras
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

Extended Reality (XR) vs. Virtual Reality (VR) for Artificial Intelligence (AI)-Driven Balance Improvement in Older Adults
Mirella Veras, Asma Seraj Pour Shoooshtarib, Zahra Moussavi, Ke Peng
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Employing Optical Brain Imaging for Real-Time Assessment of Brain Functions During Immersive Virtual Reality: Harnessing Potential for Neurorehabilitation
Asma Seraj Pour Shoooshtarib, Mirella Veras, Ali Kassab, Daniel Alejandro Galindo Lazo, Frédéric Lesage, Dang Khoa Nguyen, Zahra Moussavi, Ke Peng
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AIVR 2 / AIVR-3I: Artificial Intelligence and Virtual Reality for Improving Inclusive Innovation

Introduction
Jérôme Dinet
[presentation slides](#) / [editorial](#)

Impact of Background Context on Autistic Children's Recognition of Robot Emotions [PRESENTATION]
Mahiro Ohtani, Jérôme Dinet, Marie Rychalski, Armand Manukyan
[presentation slides](#) / [video](#)

Towards Personalized Mobility Assessment and Rehabilitation: A User Centered Designed VR/XR-Based Solution for Older Adults
Yann Moree, Jérôme Dinet, Fabien Clanché, Thierry Bastogne, Matthieu Castaner, Lucas Detto, Matthieu Burtin, Frédéric Boussef, Kaoutar El Ghabli
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Engagement and Cognitive Effort in Chemistry Education Through Virtual Reality: Examining the Negative Impacts of VR [PRESENTATION]
Ida Moughogha, Jérôme Dinet
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Enhancing the Utilization of Artificial Intelligence and Social Robots in Specialized Units for Children with Autism
Marie Rychalski, Armand Manukyan, Jérôme Dinet
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Ergonomic Challenges and Benefits of Enhanced Cultural Application with Augmented Reality for People with Autistic Spectrum Disorder
Armand Manukyan, Antoine Pollet, Stéphanie Claudel, Jérôme Dinet, Laurent Dupont
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Regular Sessions

SERVICE COMPUTATION 2025, The Seventeenth International Conference on Advanced Service Computing

Insight into Integrating Legacy Systems and Microservices Architectures within the Insurance Industry via an Enterprise Service Bus
Christin Schütze, Arne Koschel, Andreas Hausotter, Henrik Meyer, Tim van Dorp, Lennart Vermeir
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CLOUD COMPUTING 2025, The Sixteenth International Conference on Cloud Computing, GRIDs, and Virtualization

PERTD - Cloud Application Threat Modeling
Aspen Olmsted
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Trends for Pulling HPC Containers in Cloud
Vanessa Sochat
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

Consistent Access to Cloud Services across Regions for Large Enterprises
Prisha Goel, Pavan Pradeep, Aditi Srinivas M, Dhruv Sanjaykumar Ratanpara, Shipra S Krishna
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Combining Flows and Rules in a Low-Code Platform for Smart Water Management
Jens Nicolay, Bjørn Oeyen, Samuel Ngugi Ndung'u, Thierry Renaux, Maxime Dénarest, Boud Verbeiren, Wolfgang De Meuter
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Latency-Aware Task Offloading Mechanism for Mobile Edge Computing
Abdullah Alwabel
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

Running Kubernetes Workloads on Rootless HPC Systems using Slurm
Jonathan Decker, Sören Metje, Julian Kunkel
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Configuring Edge Devices That Are Not Accessible Via The Internet
Sebastien Andreo, Uwe Hohenstein
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

LLM-based Distributed Code Generation and Cost-Efficient Execution in the Cloud
Kunal Rao, Giuseppe Coviello, Gennaro Mellone, Ciro Giuseppe De Vita, Srimat Chakradhar
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Proactive Optimization of Virtual Machine Placement Using Predictive Models Based on Time Series
Naby Doumbouya, Mhand Hifi
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FUTURE COMPUTING 2025, The Seventeenth International Conference on Future Computational Technologies and Applications

Treatment of the Multi-Attribute Decision-Making Rank Reversal Problem for Real-World Systems
Steve Chan
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Fugacity Phase Transition and Hyper-Heuristic Convergence for AI-centric Conceptual Estimating
Steve Chan
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

Interstitial b-SHAP-centric Amalgam for the Enhancement of an AI-centric Construct Validity Approach
Steve Chan
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

COGNITIVE 2025, The Seventeenth International Conference on Advanced Cognitive Technologies and Applications

Metacognition-Driven Preprocessing for Optimized Artificial Intelligence Performance
Naavya Shetty
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Implementation of Structured Mermes into Behavioral Ecology via GOMS
Muneo Kitajima, Makoto Toyota, Jérôme Dinet, Katsuko T. Nakahira
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Neutralized Synchronic and Diachronic Potentiality for Interpreting Multi-Layered Neural Networks
Ryotaro Kamimura
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"Red Cars are Faster than Other Cars": The Impact of Color on Children's Estimation of Speed
Jérôme Dinet, Robin Vivian, Melanie Laurent, Mickael Smols, Pierre Chevrier, Gaëlle Nicolas
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Effects of Experience of Listening to Short Sentences Containing ANEWs on Memory: An Analysis Based on Pupillary Responses during Listening and Visual Behavior during Impression Evaluation
Katsuko Nakahira, T., Sho Hasegawa, Shunsuke Moriya, Muneo Kitajima
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ADAPTIVE 2025, The Seventeenth International Conference on Adaptive and Self-Adaptive Systems and Applications

A Comparative Overview of Success Factors for Sustainable and Digital Business Models
Marti Brieche-Mathiszig, Andreas Rausch
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A Control Framework for Direct Adaptive State and Input Matrix Estimation with Known Inputs for LTI Dynamic Systems
Kevin Fuentes, Mark Balas, James Hubbard
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Repairing is Caring - An AI-Supported Product-Service-System for Longevity Prolonging
Mohammed Fahad Ali, Dominique Fabio Brieche, Marti Elke Anke Brieche-Mathiszig, Thomas Tobias Marcello Geger, Andreas Rausch
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CONTENT 2025, The Seventeenth International Conference on Creative Content Technologies

Integrating Creative Artifacts into Software Engineering Processes
Hans-Werner Sehring
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The Generation of Piano Music in the Style of Johannes Brahms Using Neural Network Architectures
Dermot Doherty, Brendan Tierney
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Practical Applications of State-Of-The-Art Large Language Models to Solve Real-World Software Engineering Problems Autonomously
Yuriy Mikhalevich
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PATTERNS 2025, The Seventeenth International Conference on Pervasive Patterns and Applications

LLM-Based Design Pattern Detection
Christian Schneider, Andreas Rausch
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Patterns for Quantum Machine Learning
Lavinia Stiliadou, Johanna Barzen, Martin Beisel, Frank Leymann, Benjamin Weder
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Using the Monte Carlo Method to Estimate Student Motivation in Scientific Computing
Isaac Caicedo-Castro, Oswaldo Vélez-Langs, Rubby Castro-Puche
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On the Operationalization of Composable Architecture by Means of Normalized Systems Theory
Geert Haerens, Hervig Mannaert
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COMPUTATION TOOLS 2025, The Sixteenth International Conference on Computational Logics, Algebras, Programming, Tools, and Benchmarking

O - A New Approach For A Very Simple Language For Distributed Computation
Thomas Pucklitzsch, Mathias Sporer
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BUSTECH 2025, The Fifteenth International Conference on Business Intelligence and Technology

How Does AI Influence the Acceptance of Business Intelligence Solutions in Switzerland?
Viktoria Apalkova
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Critical Success Factors for Application of Business Intelligence in Distribution Sector in Denmark
Sabina Rolsted, Jesper Skjold
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

AURORA: An Automated Database Schema Change Logging System
Bradley Camilleri, Joseph G Vella
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

How Does IT Governance Improve Firm Performance? A Dynamic Capabilities Perspective
Marie-Noëlle Forget, Pierre Hadaya, Maggie Manitta
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AIVR 2025, The Second International Conference on Artificial Intelligence and Immersive Virtual Reality

The Effects of Virtualization on Connectedness, Presence, and Immersion: A Mixed-Methods Comparison of Real, Mixed, and Virtual Environments
Niklas Groffner
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

The Impact of Virtual Reality on Pain Management During Orthodontic Debonding [POSTER]
Aurelie Mailloux
[presentation slides](#) / [video](#)

Intergenerational Codesign of Immersive Technology for a Heritage Site and Underwater VR Experience
Marius Nicolae Varga, Oksana Hagen, Rory Baxter, Alejandro Veliz Reyes, Ray B. Jones, Amir Aly, Dena Bazazian, Swen Gaudl
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Addressing the Symbol Grounding Problem in VR
Muneo Kitajima, Makoto Toyota, Katsuko T. Nakahira
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Handed the Walls: Comparison of Three Extended Reality Technologies Giving Care Home Residents Access to Tourism and Cultural Content for Health and Wellbeing
Bernard Bradwell, Katherine Edwards, Leonie Cooper, Rory Baxter, Arunangsu Chatterjee, Ray Jones, Catherine Hennessey
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Enhancing School Visits to Museums through Gamified VR: A Complementary Approach to Learning and Social Engagement
Claiton Ferreira, Paula Latorre, Francisco Antonio Nieto-Escamez
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AICT 2025, The Twenty-First Advanced International Conference on Telecommunications

Authors' Presentation of Selling Purple-Clay Teapots: Toward a Nexus Analysis of Douyin Live Streaming Selling
Xixin Su
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ICW 2025, The Twentieth International Conference on Internet and Web Applications and Services

A Real-Time Cache Side Channel Attack Detection and Mitigation Framework Based on Machine Learning
Yousra Ghabbara, Zied Trifa
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

ICIMP 2025, The Twentieth International Conference on Internet Monitoring and Protection

Integrated Cyber Security Risk Management-Insurance and Investment Cost Analysis [PRESENTATION]
Thomas Y. S. Lee
[presentation slides](#) / [video](#)

Houterfeet: A Virtual Self-Defending Infrastructure with Transparent Relocation to Honey pots
Mihai-Alexandru Bogatu, Adrian-Rilzvan Deaconescu, Cătălin-Adrian Leordeanu
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SMART 2025, The Fourteenth International Conference on Smart Cities, Systems, Devices and Technologies

Smart City Road Maintenance: A LiDAR and AI-Driven Approach for Detecting and Mapping Road Defects
Giovanni Nardini, Roberto Nucera, Alessandro Ulleri, Stefano Cordiner, Eugenio Martinelli, Arianna Mercatanti, Julian Gabriel Coltes
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IoT System for Indoor Air Quality Monitoring Using ThingSpeak: Promoting Healthy Work Environments
Ilber Adonayí Ruge Ruge, Ingrid Carolina Ortiz Alvarez, Fabian Rolando Jiménez López
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Deep Learning-based Failure Detection for Safety Diagnostics of Hydrogen Storage Vessels
Dongju Kim, Da-Hyun Kim, Hyo-Jin Kim, Young-Joo Suh
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Disaster Detection Framework for Smart Cities: An AI YOLOv8 and IoT Approach
Hossam Kamel
[presentation slides](#) / [video](#) / [full article in Thinkmind Digital Library](#)

On-the-Edge Inference Enabled Vision System for Smart Cities
Carmelo Scibano, Ignacio Sarado Olmedo, Micaela Verucchi, Danda Pani Paudel, Marko Bertogna, Luc Van Gool
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Enhancing Smart City Sustainability: Anaerobic Treatment of Semiconductor Industry Wastewater for Improved Efficiency and Environmental Impact
Bruno Escobar, Ana Santos, Flavio Silva, Helena Nedaïs
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Using Artificial Intelligence to Support Emergency Management Training - Creating Efficient and Realistic Scenarios with ChatGPT
Lasse Berntzen, Jarle Lowe Sørensen, Marius Rohde Johannessen, Lauritz Rauer Nilsen, Lene Sandberg, Eric Carlström, Amir Khorram-Manesh
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IMMM 2025, The Fifteenth International Conference on Advances in Information Mining and Management

An Integrated Data-Driven Approach for Evaluating the Impact of Additional Drill Holes in Mining Exploration
José González, María González, Lukas Meszoros, Andre Oriánil
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SPWID 2025, The Eleventh International Conference on Smart Portable, Wearable, Implantable and Disability-oriented Devices and Systems

Remote Photoplethysmography System for Vital Signs Estimation: Perceived Usability Evaluation by Elderly People
Anna Maria Carluccio, Andrea Manni, Andrea Caroppo, Pietro Alcardo Siciliano, Alessandro Leone
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Commercial Wrist Devices for Epileptic Seizure Detection: A Systematic Review
Andrea Caroppo, Andrea Manni, Anna Maria Carluccio, Gabriele Rescio, Alessandro Leone
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Farewell Message