

# On site Activities (*preliminary*) Program

## Conference Hotel

### Conference Venue Location

The conference will be online and on location at  
**Holiday Inn Express Valencia-Ciudad Las Ciencias**  
**Escrítor Rafael Ferreres 22**  
**Valencia, 46013**  
**Spain**  
**Phone:** +34 963 16 25 30  
**Email:** [recepcion@expresshivalencia.com](mailto:recepcion@expresshivalencia.com)

**Updated as of February 12, 2026.**

**The program will be continuously updated.**

**InfoSys 2026:** <https://www.aria.org/conferences2026/InfoSys26.html>

**InfoWare 2026:** <https://www.aria.org/conferences2026/InfoWare26.html>

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

Time slots	Activity
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**Sunday, March 8**

12:00am	<b>Registration starts</b> The registration desk is in front of the conference rooms. The reception is operating during the entire conference.
13:30 - 13:45	<b>Opening session</b>
13:45 - 14:45	<b>Tutorial I</b> A Web-Component Primer for Database Developers <b>Lecturer</b> Prof. Dr. Andreas Schmidt, University of Applied Sciences, Karlsruhe, Germany <b>Chair</b> Malcolm Crowe
14:45 - 15:15	<b>Coffee Break</b>
15:15 - 16:15	<b>Tutorial II</b> TBD <b>Lecturer</b> Prof. Dr. Dirk Labudde, Hochschule Mittweida, Germany <b>Chair</b> Andreas Schmidt
16:15 - 16:30	<b>Break</b>
16:30 - 17:30	<b>Workshop</b> <b>Theme:</b> Typed Graph Models versus Databases

	<p style="text-align: right;"><b>Lecturer</b> Emeritus Prof. Dr. Malcolm Crowe, University of the West of Scotland, UK, Scotland</p> <p style="text-align: right;"><b>Chair</b> Dirk Labudde</p>
17:30 - 17:45	<b>Break</b>
17:45 - 18:30	<p style="text-align: right;"><b>Open Discussion I</b></p> <p style="text-align: right;"><b>Theme:</b> AI Hallucinations and Product Delivery - "Just in time" is better than "Perfection"</p> <p style="text-align: right;"><b>Coordinators</b></p> <p style="text-align: right;"><b>TBD</b></p>
18:45 - 19:45	<b>Welcome Cocktail</b>

## Monday, March 9

	<p><b>Keynote Speech</b> Using Drones for Enhanced Communications in Cases of Emergency</p> <p style="text-align: right;"><b>Speaker</b></p>	
09:00 - 09:45	<p>Prof. Dr. Ivan.Ganchev, University of Limerick, Ireland / University of Plovdiv "Paisii Hilendarski" Bulgaria</p> <p style="text-align: right;"><b>Chair</b></p> <p style="text-align: right;">Dirk Labudde</p>	
09:45 - 10:00	<b>Coffee</b>	
10:00 - 11:30	<b>Session 1 [AIHealth]</b>	<b>Session 2 [VISUAL, VEHICULAR]</b>
11:30 - 11:45	<b>Coffee Break</b>	
11:45 - 13:15	<b>Session 3 [ICAS]</b>	<b>Session 4 [WEB]</b>
13:30 - 14:30	Lunch on your own	
14:30 - 16:00	<b>Session 5 [INTERNET, ENERGY]</b>	<b>Session 6 [BIOTECHNO]</b>
16:00 - 16:15	<b>Coffee</b>	
16:15 - 17:15	<b>TBD</b>	
17:15 - 17:30	<b>Coffee Break</b>	
	<b>Panel #1</b>	
17:30 - 19:00	<p><b>Theme:</b> Society Benefits from Digital Systems and Smart Services</p> <p style="color: red;"><b>Moderator: TBD</b></p> <p style="color: red;"><b>Panelists: TBD</b></p>	

## Tuesday, March 10

	<p><b>Keynote Speech</b> Domain Adaptation in Machine Learning</p> <p style="text-align: right;"><b>Speaker</b></p>	
09:00 - 9:45	<p>Prof. Dr. Sagar Naik, University of Waterloo, Canada</p> <p style="text-align: right;"><b>Chair</b></p> <p style="text-align: right;">Dirceu Cavendish</p>	
09:45 - 10:00	<b>Coffee</b>	
10:00 - 11:30	<b>Session 7 [SENSE-CPS/INTELLI]</b>	<b>Session 8 [HUSO]</b>
11:30 - 11:45	<b>Coffee Break</b>	
11:45 - 12:30	<b>Keynote Speech</b>	

	<p>Precision Triage in Healthy Aging: Uniting AI, Clinical Science, and Community Care to Pre-empt the "Silent Danger" of Frailty</p> <p><b>Speaker</b> Meghan Conroy, CEO &amp; Founder, CaptureProof</p> <p><b>Chair</b> Dirceu Cavendish</p>	
12:30 - 12:45	<b>Coffee</b>	
12:45 - 14:15	<b>Session 9 [INTELLI]</b>	<b>Session 10 [DBKDA]</b>
14:15 - 15:15	Lunch on your own	
15:15 - 16:45	<b>Session 11 [AIHealth]</b>	<b>Session 12 [DBKDA]</b>
16:45 - 17:00	<b>Coffee Break</b>	
17:00 - 18:30	<p style="text-align: center;"><b>Panel #2</b></p> <p><b>Theme:</b> Challenges and Advantages of the Coexistence of Raw Data, Metadata, and Synthetic Data</p> <p><b>Moderator: TBD</b></p> <p><b>Panelists: TBD</b></p>	
18:30 - 18:45	<b>Coffee</b>	
18:45 - 20:00	<p style="text-align: center;"><b>Demo</b></p> <p>SmartCHANGE Web application: An AI-Driven Digital solution for Personalized Health Lifestyle Change Interventions</p> <p><b>Demonstrators</b></p> <p>Elena Mancuso, Engineering Ingegneria Informatica SpA, Italy Valentina Di Giacomo, Engineering Ingegneria Informatica SpA, Italy</p>	

## Wednesday, March 11

	<p><b>Keynote Speech</b> Intelligent Energy Management Systems</p> <p><b>Speaker</b> Prof. Dr. Juho Mäkiö, University of Applied Sciences, Emden / Leer, Germany</p> <p><b>Chair</b> Ivan Ganchev</p>	
9:45 - 10:00	<b>Coffee Break</b>	
10:00 - 11:30	<b>Session 13 [VEHICULAR]</b>	<b>Session 14 [BRAININFO, SIGNAL, DBKDA]</b>
11:30 - 11:45	<b>Coffee</b>	
11:45 - 12:30	<p style="text-align: center;"><b>Keynote Speech</b></p> <p><b>Speaker [pending]</b></p> <p><b>Chair</b></p>	
12:30 - 14:00	Lunch on your own	
14:00 - 15:30	<b>Session 15 [ENERGY]</b>	<b>Session 16 [BIOTECHNO]</b>
15:30 - 15:45	<b>Coffee</b>	
15:45 - 17:15	<b>Session 17 [WRE/ENERGY]</b>	<b>Session 18 [BIOTECHNO]</b>
17:15 - 17:30	<b>Coffee Break</b>	
17:30 - 19:00	<p style="text-align: center;"><b>Panel #3</b></p> <p><b>Theme:</b> Success and Warnings: Medical Decisions Using AI-Advanced Tools Under Scrutiny</p> <p><b>Moderator: TBD</b></p> <p><b>Panelists: TBD</b></p>	

19:00 - 19:15	<b>Coffee</b>
19:15 - 20:15	<b>Open Discussion II</b> <b>Theme:</b> Society Evolution and Human-Machine Cohabitation <b>Coordinators</b> <b>TBD</b>
20:30 - 23:30	<b>Conference Dinner</b> <b>Restaurante Don Pelayo</b> <b>Junto Ciudad Justicia y Artes y Las Ciencias, Carrer d'Antonio Sacramento, 17, 46013</b>

## Thursday, March 12

09:00 - 9:45	<b>Keynote Speech</b> Preventing Large-Scale Emergencies in Modern Power Systems: AI Approach <b>Speaker</b> Prof. Dr. Michael Negnevitsky, University of Tasmania, Australia <b>Chair</b> Vivian Sultan
09:45 - 10:00	<b>Coffee</b>
10:00 - 11:30	<b>Panel #4</b> <b>Theme:</b> Energy Challenges and Green-energy Related Models <b>Moderator: TBD</b> <b>Panelists: TBD</b>
11:30 - 11:45	<b>Coffee Break</b>
11:45 - 13:30	<b>Session 19 [AIHealth, INTELLI]</b>
13:30 - 13:45	<b>Coffee</b>
13:45 - 14:30	<b>Open Discussion III</b> <b>Theme:</b> Boredom Relevance for Creativity in the Digital Age <b>Coordinators</b> <b>TBD</b>
14:30 - 15:00	<b>Coffee, Farewell, and Closing Session</b>

## Recommended tourist objectives to be visited on your own:

- Cidade das Artes e das Ciências: Arte, Santiago Calatrava, museu, arquitetura, cultura
- Lonja de la Seda: Arquitetura, história, museu, arte, arquitetura gótica
- L'Oceanografic: Aquário
- Valencia Bioparc: Jardim zoológico
- Mercado Central: Mercado
- Torres de Serranos: História
- Catedral de Valência: Catedral, história, arquitetura
- Museu de Belles Arts de València: Museu, arte, cultura, arquitetura
- Institut Valencià d'Art Modern: Arte, museu, arquitetura, cultura



## **Session 1 [AIHealth] Monday - morning - A**

Session Chair: Rollo Federico

80086 Assessing the Effectiveness of an Artificial Intelligence Tool for Note-taking in a General Practice Setting

Shreya Shah, King's College London, UK

80064 De-Identifying German Clinical Notes under Small-Corpus Constraints: Transferring State-of-the-Art Approaches from English Benchmarks

Anna-Lena Artmann, Center for Advanced Studies of the Baden-Württemberg / Cooperative State University, Germany

80152 Using a Smartwatch for Heart-Rate-Based Work-Rest Scheduling in Construction

Karim Zahed, American University of Beirut, Lebanon

## **Session 2 [VISUAL, VEHICULAR] Monday - morning - B**

Session Chair: Tobias Kiertscher

70005 The Digital Twin in a Forensic Case Study

Dirk Labudde, Hochschule Mittweida, Germany

30029 Metaheuristic-machine learning algorithm for the evaluation of last-mile delivery consolidation strategies and their sustainability impacts [PRESENTATION]

Christopher Bayliss, University of Portsmouth, UK

## **Session 3 [ICAS] Monday - late morning - A**

Session Chair: Christopher Bayliss

20003 A Ground-Aware Lidar Intensity Filter for Reliable SLAM in Challenging Reflection Environments

Rollo Federico, Leonardo Spa, Italy

20005 VaMAI-Validator: Agent Validation Platform for Autonomous Maritime Navigation

Christoph Baier, Institute for Applied Systems Technology Bremen (ATB), Germany

Fulya Horozal, Institute for Applied Systems Technology Bremen (ATB), Germany

20010 The Future of Large-scale Uncrewed Aerial Systems for Logistics

Keirin Joyce, University of New South Wales, Australia

## **Session 4 [WEB] Monday - late morning - B**

Session Chair: Keirin Joyce

40002 A Lightweight Presentation Server with Generic Web Front End for Developer-Centric Hypermedia Publishing

Tobias Kiertscher, Technische Hochschule Brandenburg, Germany

40006 Towards Accessible Interactive Visual Elements on the Web: An AI-Based Descriptive and Auditory Input/Output Approach for Screen Reader Users

Frank Heckel, Anhalt University of Applied Sciences, Germany

## **Session 5 [INTERNET, ENERGY] Monday - afternoon - A**

Session Chair: Eric Veith

40007 Medical IoT Devices & Systems: Challenges and Opportunities  
Dirceu Cavendish, Kyushu Institute of Technology, USA

40013 Private Information in Public Data - A Forensic Review of Unaffected User Image Metadata Provided by Online Platforms  
Felix Fischer, Hochschule Mittweida, Germany

30023 Zero Trust Defense Against Charge Manipulation Attacks in Smart EV Charging Infrastructure  
Saba Marandi, Concordia University, Canada

## **Session 6 [BIOTECHNO] Monday - afternoon - B**

Session Chair: Frank Heckel

70024 Emergent Information Formation in Prebiotic Protocell Clusters: A Computational Mechanics Framework of  $\varepsilon$ -Machines and Attractor Memory  
Michael Massoth, Hochschule Darmstadt - University of Applied Sciences, Germany

70047 Computational Discovery of Inhibitors Targeting Alphavirus nsP2 Proteases  
José Augusto Leoncio Gomide, Universidade Federal de Uberlândia, Brazil

70019 Attractive Casimir-Lifshitz Forces as a Universal Driver of Prebiotic Protocell Aggregation and Cluster Formation  
Michael Massoth, Hochschule Darmstadt - University of Applied Sciences, Germany

## **Session 7 [SENSE-CPS/INTELLI] Tuesday - morning - A**

Session Chairs: Rui Pinto, Gil Gonçalves

68001 Craft Beer Monitoring: A Cyber-Physical IoT System for Precision Brewing  
José Felisberto, University of Porto, Portugal  
Rui Pinto, FEUP, Portugal  
Gil Gonçalves, FEUP, Portugal

68002 Edge-Based IoT and AI Framework for Real-Time Wastewater Potability Classification  
José Isidro, University of Porto, Portugal  
Rui Pinto, FEUP, Portugal  
Gil Gonçalves, FEUP, Portugal

68003 An Edge-Centric IoT System for Smart Building Energy Management  
João Silva, University of Porto, Portugal  
Rui Pinto, FEUP, Portugal  
Gil Gonçalves, FEUP, Portugal

## **Session 8 [HUSO] Tuesday - morning - B**

Session Chair: Dennis Folds

80002 Analyzing Narrative Evolution about South China Sea Dispute  
Nitin Agarwal, COSMOS Research Center, UA Little Rock; ICSI, University of California, Berkeley, USA

80009 Modeling the Winkum Game  
Fernanda Elliott, Grinnell College, USA

80012 An Investigation of How Horse Racing Experts Decided not to Enter Their Horses in Other Races of Similar Distances

Yasuhiko Watanabe, Ryukoku University, Japan

### **Session 9 [INTELLI] Tuesday - early afternoon - A**

Session Chair: Eden Solomon Awulachew

60005 Accelerating the Adoption of Asset Administration Shells through AI Agents  
Camilo Velázquez-Rodríguez, Flanders Make, Belgium

60007 From Data Silos to Intelligent Operations: An AI-Based Approach to Ground Station Incident Investigation

Dimitri Accad, Starion, Belgium  
Nieves Salor Moral, Starion Group, Spain

60018 Integrating Intuitive Interaction and LLM Guidance for Efficient 3D Annotation

Kenji Iwata, National Institute of Advanced Industrial Science and Technology (AIST), Japan  
Haruya Ishigami, National Institute of Advanced Industrial Science and Technology, Japan

### **Session 10 [DBKDA] Tuesday - early afternoon - B**

Session Chair: Jey Puget Gil

50004 The Impact of Artificial Intelligence and Data Analytics Capabilities on Firm Performance  
Steve B. Zhou, University of Houston Downtown, USA

50015 Scribe Verification in Chinese Manuscripts using Siamese, Triplet, and Vision Transformer Neural Networks  
Konstantinos (Constantine) Kotropoulos, Aristotle University of Thessaloniki, Greece

### **Session 11 [AIHEALTH] Tuesday - afternoon - A**

Session Chair: Camilo Velázquez-Rodríguez

80096 SmartCHANGE: From Risk Prediction to Daily Habits Through AI and Gamified Lifestyle changes  
Elena Mancuso, Engineering Ingegneria Informatica SpA, Italy

80026 Leveraging Recurrent Neural Networks for Predicting Chronic Disease Onset from Longitudinal EHRs  
Eden Solomon Awulachew, Department of Public Health, Rift Valley University, Ethiopia

80134 SmartCHANGE Web application: An AI-Driven Digital solution for Personalized Health Lifestyle Change Interventions

Valentina Di Giacomo, Engineering Ingegneria Informatica SpA, Italy

### **Session 12 [DBKDA] Tuesday - afternoon - B**

Session Chair: Steve B. Zhou

50018 Property Graph Techniques in Relational Databases

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

50023 QuaQue: Design and SQL implementation of condensed algebra for concurrent versioning of knowledge graphs

Jey Puget Gil, Université Claude Bernard, LIRIS, UMR-CNRS 5205, France

50028 On UNIQUE KEYS in SQL/JSON Implementations - Experimenting with JSON support in DBMS products

Malcolm Crowe, University of the West of Scotland, UK, Scotland

### **Session 13 [VEHICULAR] Wednesday - morning - A**

Session Chair: Vasiliki Tzelepi

30012 RoadSense - An AI-Based Vehicle Alert System driven by V2V Mesh Communications

Amit Resh, Shenkar College of Engineering, Design and Art, Israel

30017 Evidence of Unmet Demand for Public Charge Points for Electric Vehicle Users

Dinesh Chacko, Institute of Electrical and Electronics Engineers (IEEE), UK

30025 A Comparison of Public Electric Vehicle Charge Point Access Among the United States

Dinesh Chacko, Institute of Electrical and Electronics Engineers (IEEE), UK

### **Session 14 [BRAININFO, SIGNAL, DBKDA] Wednesday - morning - B**

Session Chair: Clarice Da Costa Correa

90009 Brain to Bedside: Using Neuroscience to Cultivate Empathy in Medicine

Michael De Wilde, Grand Valley State University & Corewell Health, USA

Tia Chakraborty, Corewell Health/ Michigan State University, Grand Valley State University, USA

60022 Power Spectral Density of the Quantization Noise in Block-Floating-Point FFT

Gil Naveh, Huawei Technologies Co. Ltd, Israel

50010 Relations between Degree of Satisfaction and Consistency Index in Fuzzy Data AHP

Shin-ichi Ohnishi, Hokkai-Gakuen University, Japan

### **Session 15 [ENERGY] Wednesday - early afternoon - A**

Session Chair: Gil Naveh

30014 The Green ICT Tool: A Methodology-Driven Platform for Assessing ICT Energy Consumption

Vasiliki Tzelepi, Institute of Communication and Computer Systems (ICCS), Greece

30037 Metro-Integrated Electrified Campus Shuttles for Green Mobility in Saudi Universities

Mohammed Mutwaly, Imam Mohammad Ibn Saud Islamic University (IMSIU), Saudi Arabia

Khaled Alkhamis, Imam Mohammad Ibn Saud Islamic University (IMSIU), Saudi Arabia

30027 A Hierarchy-Focused Algorithm for Drawing Single Line Diagrams of Power Grids

Eric Veith, OFFIS e.V. - Oldenburg, Germany

30007 From Sparks to Strategy: Geospatial and Predictive Modeling of Wildfire Risk for Grid Hardening

Vivian Sultan, California State University, Los Angeles, USA

Jeremy Contreras, California State University Los Angeles, USA

**Session 16 [BIOTECHNO] Wednesday - early afternoon - B**

Session Chair: Michael De Wilde

70027 From Physical Difference to Meaning: A Constructor-Theoretic Framework for Prebiotic Information in Casimir-Lifshitz-Coupled Protocell Clusters

Michael Massoth, Hochschule Darmstadt - University of Applied Sciences, Germany

70017 Evaluation of a Galvanic Vestibular Stimulation System to Reduce Cybersickness in Virtual Reality

Clarice Da Costa Correa, ENSICAEN - NBI, France

70029 Physical Origin of Proto-Information: Syntax, Semantics and Pragmatic Emergence in Prebiotic Protocell Clusters

Michael Massoth, Hochschule Darmstadt - University of Applied Sciences, Germany

**Session 17 [WRE/ENERGY] Wednesday - afternoon - A**

Session Chair: Vivian Sultan

38001 Postfire Burn Severity and Four-Month Vegetation Recovery Assessment Using NBR and NDVI: A Case Study of the Eaton and Palisades Fires

Vivian Sultan, California State University, USA

Andrew Pang, California State University, USA

38002 Climatic Extremes, Vegetation Response, and Fuel Conditions: A five-year analysis of the Palisades and Eaton fire zones in Los Angeles County

Vivian Sultan, California State University, USA

Diego Sanchez, California State University, USA

Leonardo Ortiz, California State University, USA

38003 Understanding the Socioenvironmental Impact of LA City Wildfires

Vivian Sultan, California State University, USA

Sirisha Mahesh, California State University, USA

Christopher Lee, California State University, USA

**Session 18 [BIOTECHNO] Wednesday - afternoon - B**

Session Chair: Dirceu Cavendish

70031 Quantum Field-induced Proton H<sup>+</sup> Gradients in Prebiotic Protocell Clusters

Michael Massoth, Hochschule Darmstadt - University of Applied Sciences, Germany

70035 Prebiotic Sustainability in the Nanoworld: A Physical Framework for Early Protocell Cluster Stability

Michael Massoth, Hochschule Darmstadt - University of Applied Sciences, Germany

70044 From Prebiotic Sustainability to Proto-Liveliness: A Biocomputational Framework with Structural, Energetic and Informational Metrics for Protocell Cluster Evolution

Michael Massoth, Hochschule Darmstadt - University of Applied Sciences, Germany

**Session 19 [AIHealth, INTELLI] Thursday - late morning - A**

Session Chair: Michael Massoth

80154 Enhancing CineMRI Clinical Documentation by Detecting and Correcting Ambiguity with Large Language Models

Guillermo Villanueva, Barcelona Institute for Global Health (ISGlobal), Spain

60014 ENDURE: Ensemble Based Robust Reinforcement Learning with Reduced Sample Complexity  
Sarra Alqahtani, Wake Forest University, USA

80136 GuardianRx: An AI-Driven Predictive Tool for Monitoring Emerging Psychoactive Drug Trends  
Dip Patel, OSF Healthcare, USA