

On site Activities (preliminary) Program

NOVOTEL BARCELONA CORNELLÀ
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Updated as of **May 1, 2024**

The program will be continuously updated.

DigitalWorld: <https://www.iaia.org/conferences2024/DigitalWorld24.html>

NexComm: <https://www.iaia.org/conferences2024/NexComm24.html>

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

Session conference rooms	Room #1	Room #2	Room #3
Plenaries		Room #1	

Sunday, May 26

11:00	Registration starts The registration desk is located in front of the conference rooms Open during the entire conference
13:15	Welcome session
13:15 - 14:15	Tutorial Lecture Theme: How to Plan and Perform Artificial Intelligence and Health Information Technologies Evaluation Speaker Prof. Dr. Vitaly Herasevich, M.D., Ph.D., Mayo Clinic, USA Chair Lodewijk Arntzen
14:15 - 14:45	Coffee Break
14:45 - 15:45	Session 1 [eTELEMED]
15:45 - 16:15	Coffee
16:15 - 17:15	Keynote Speech Quantum Sensing - The State-of-the-Art Possibilities Speaker Pr. Lect. Dr. Lodewijk Arntzen, The Hague University of Applied Sciences, The Netherlands

	Chair Eugen Borcoci
17:15 - 17:30	Coffee
17:30 - 18:45	Open Discussion #1 Theme: Human Brain and Machines: Social Implications Moderators
19:00 - 20:00	Welcome Cocktail <u>Special Cello Duet Cellissimae</u> https://www.iaria.org/conferences2024/filesDigitalWorld24/Cellissimae_Welcome.pdf You must have your badge to attend the cocktail

Monday, May 27

09:00 - 10:00	Keynote Speech Theme: Information-centric Wireless Networking Speaker Prof. Dr. Shintaro Mori, Fukuoka University, Japan Chair Eugen Borcoci		
10:00 - 10:30	Coffee Break		
10:30 - 12:15	Session 2 [eTELEMED]	STAAS I	SCSN
12:15 - 12:30	Coffee		
12:30 - 13:30	Open Discussion #2 Theme: Robots-Human Co-existence Moderators		
13:30 - 15:00	Lunch on your own		
15:00 - 16:45	Session 3 [SPACOMM]	STAAS II	Session 4 [ICDS, eLmL]
16:45 - 17:15	Coffee break		
17:15 - 19:00	Panel #1 Theme: Humans and Technology Moderator Panelists		

Tuesday, May 28

09:00 - 10:00	Keynote Speech Theme: Playing with the ThinkMind Corpus Speaker Prof. Dr. Lasse Berntzen, University of South-Eastern Norway, Norway Chair Shintaro Mori
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10:00 - 10:30	Coffee Break		
10:30 - 12:15	Session 5 [ACHI]	Session 6 [eTELEMED]	DA I
12:15 - 12:30	Coffee		
12:30 - 14:00	Session 7 [ALLSENSORS]	Co-CREATE I	DA II
14:00 - 15:30	Lunch on your own		
15:30 - 17:00	Session 8 [ICN]	Co-CREATE II	DA III
17:00 - 17:30	Coffee break		
17:30 - 19:00	AVRAR	Co-CREATE III	DA IV
19:00 - 19:15	Coffee		
19:15 - 20:45	Panel #2 Theme: Sensing and Data Processing Moderator Panelists		

Wednesday, May 29

09:00 - 10:00	Keynote Speech Theme: Wide Area Wireless Networks - from 3G to 6G: Evolution, Integration, Challenges Speaker Prof. Dr. Eugen Borcoci, National University of Science and Technology POLITEHNICA Bucharest, Romania Chair Jin-Shyan Lee		
10:00 - 10:30	Coffee Break		
10:30 - 12:15	Session 9 [eTELEMED]	Session 10 [SMART ACCESSIBILITY]	Session 11 [ICONS, ICN]
12:15 - 12:30	Coffee		
12:30 - 13:30	Open Discussion #3 Theme: (de)generative AI - The is a Bad Moon on the Rise! Moderators		
13:30 - 15:00	Lunch on your own		
15:00 - 16:45	Session 12 [SOFTENG, ALLDATA, eTELEMED]	Session 13 [ICN]	DASAIT
16:45 - 17:15	Coffee break		
17:15 - 19:00	Panel #3 Theme: Complex Systems Moderator		

	Panelists
19:00 - 20:30	Coffee (Socializing)
20:30 - 23:30	Conference Dinner Novotel Hotel DJ + Special Cello Duet Cellissimae https://www.iaaria.org/conferences2024/filesDigitalWorld24/Cellissimae_Gala.pdf

Thursday, May 30

09:00 - 10:30	Panel #4 Theme: Health and Accessibility Moderator Panelists		
10:30 - 11:00	Coffee Break		
11:00 - 12:45	Session 14 [eTELEMED]		DA V
12:45 - 14:15	Lunch on your own		
14:15 - 16:00	Session 15 [GEOProcessing, eLmL]		DA VI
16:00 - 16:15	Coffee		
16:15 - 17:30	Session 16 [ALLSENSORS]		DA VII
17:30 - 18:00	Coffee break		
18:00 - 18:30	Open Discussion #4 Theme: Accessibility and Digital/AI-based Services Coordinators		
18:30 - 18:45	Closing Session Farewell		

Recommended tourist objectives to be visited on your own:

- General information: www.barcelonatourguides.com
- Contact: info@barcelonatourguides.com

Barcelona

Prepare your best places to see in Barcelona: https://youtu.be/XVqpOCPg_Y4

- Park Güell
- Sagrada Familia
- Picasso Museum
- Gaudi Museum
- Museum of Catalan Art
- Montjuic Hill

- La Rambla
- La Marina

Girona

Salvador Dali Museum [one day trip from Barcelona]

Detailed Sessions

Session 1 [eTELEMED] Sunday

Session Chair: Vitaly Herasevich

40004 Self-Efficacy as a Determinant of Telemedicine Adoption in a Developing Country
Danupol Hoonsopon, Chulalongkorn University, Thailand

40033 Assessing Greek National Telemedicine Network
Haralampos Karanikas, D DRAKOPOULOS KAI SIA OE, Greece

Session 2 [eTELEMED] Monday

Session Chair: Eduard Klein

40024 The Telemedicine Musculoskeletal Examination [PRESENTATION]
Edward Laskowski, Mayo Clinic, USA

40009 A Framework for Fast Development of Customized Telehealth Applications
Baptiste Alcalde, FH Joanneum, Austria

40021 A Case Study for Scoliosis: How MLOps Can Help Reduce AI Challenges in Health Care
Gábor György Gulyás, Vitarex Studio Ltd., Hungary

Session 3 [SPACOMM] Monday

Session Chair: Gábor György Gulyás

20011 Study and Analysis of the Initial Test Accuracy of Algerian Augmentation System AL-SBAS
Lahouaria Tabti, Centre of Space Techniques/Algerian Space Agency, Algérie

20015 Spectral Target Detection at Twilight
Robert Sundberg, Spectral Sciences, Inc., USA

20017 Improved Method for Telemetry Data Processing in LEO Satellite
Dongseok Chae, Korea Aerospace Research Institute, Korea

Session 4 [ICDS, eLmL] Monday

Session Chair: Baptiste Alcalde

10005 Intergenerational Technology Codesign in Deprived Coastal Regions
Ray Jones, University of Plymouth, UK

50028 Digital Peer Grading in Group Learning: Empirical Insights and Best Practices
Eduard Klein, BUAS - Bern University of Applied Sciences, Switzerland

50010 Wearable technology & gaming: A study of practicing teacher perspective
Qing Li, Towson University, USA

Session 5 [ACHI] Tuesday

Session Chair: Lan Zhang

20023 Designing and Testing a Connected System for Heating Delivered Food for Elderly People
Sandra Draxler, Joanneum Research Forschungsgesellschaft mbH, Austria

20030 A Method for Estimating Blood Flow Condition from Skin Tone Information in Real Face Images
Miku Shimizu, The University of Electro-Communications, Japan

20052 Evaluating the Impact of a Personal Data Communication Policy in Human-Robot Interactions
Lewis Riches, University of Hertfordshire, UK

Session 6 [eTELEMED, ACHI] Tuesday

Session Chair: Dominik Samociuk

40014 Simultaneous Relaxation after Stress Induction: Insights from Multi-Modal Time-Series Data measured with Low-Cost Wearable Sensors
Christoph Anders, Hasso-Plattner Institute, Germany

40007 A systematic review and meta-analysis of attendance, adherence and satisfaction with physiotherapy delivered via telerehabilitation [PRESENTATION]
Trevor Russell, The University of Queensland, Australia

20038 Analysis and Enrichment of Description in Restaurant Review through Follow-Up Interaction

Kaho Mizobata, Kansai University, Japan
Ryosuke Yamanishi, Kansai University, Japan

Session 7 [ALLSENSORS] Tuesday

Session Chair: Lewis Riches

70002 Development of Urine Monitoring Sensor Module with Wireless Transmission Function
Lan Zhang, National Institute of Advanced Industrial Science and Technology (AIST), Japan

70014 Passive RFID Antenna Sensor Technology for Structural Behavior Monitoring
Dohyeong Kim, ENGSOFT Co., Ltd., Republic of Korea

70017 Structural Behavior Monitoring System using Scalable Carbon Nanotube Patch Sensors
Sang-Hyeok Nam, ENGSOFT Co., Ltd., Republic of Korea

Session 8 [ICN] Tuesday

Session Chair: Christoph Anders

30019 Application of a Deep Reinforcement Learning Algorithm to Virtual Machine Migration Control in Multi-Stage Information Processing Systems
Yukinobu Fukushima, Okayama University, Japan

30021 Measurement of the Per-flow Burst Ratio Parameter in IP Networks
Dominik Samociuk, Silesian University of Technology, Poland

Session 9 [eTELEMED, ACHI] Wednesday

Session Chair: Shintaro Mori

20035 Opportunities and Challenges in Implementing a Virtual Ward for Heart Failure Management
Sehrish Rafique, University of Hertfordshire, UK

40016 Using Computer Vision-based marker-less pose estimation for Measuring Shoulder Range of Motion
Jonny Karlsson, Arcada University of Applied Sciences, Finland
Thomas Hellstén, Arcada University of Applied Sciences, Finland

20065 Investigating the Impact of Website Menu Presentation Style on User Performance
Knut Ole Kvilhaug Magnussen, Høgskolen i Østfold, Norway

Session 10 [SMART ACCESSIBILITY] Wednesday

Session Chair: Florian Grießer

80002 Analysis of accessibility in medical devices in Health Technology Management
Mariana Brandao, IEB-UFSC, Brazil

TBD

Session 11 [ICONS, ICN] Wednesday

Session Chair: Fathima Jubina Pathari

40002 Air Quality monitoring platform for Virtual Reality-enabled Digital Twin: the use case of Cartagena (Spain)
Laura García, Universidad Politécnica de Cartagena, Spain

40004 Virtual Sensor Simulation and Post-Processing on the HiL Test System for Autonomous Vehicles in Cyber-Physical Traffic Systems
Taihao Li, Ostfalia University of Applied Sciences, Germany

30027 Applications of Computer Vision to Posture Corrections and Eye Disease Prevention
Jin-Shyan Lee, National Taipei University of Technology (Taipei Tech.), Taiwan

Session 12 [SOFTENG, ALLDATA, ACHI] Wednesday

Session Chair: Laura García

90007 Software Bug Prediction based on Semi-definite Logistic Regression Model
Tadashi Dohi, Hiroshima University, Japan

80002 A Multistep Prediction Algorithm for Analysis of Gravitational Waves based on Deep Learning
Jie Zhu, Department of Electronic Engineering Shanghai Jiao Tong University, China

20069 Dark vs. Light Mode on Smartphones: Effects on Eye Fatigue
Fathima Jubina Pathari, Østfold University, Halden, Norway

Session 13 [ICN] Wednesday

Session Chair: Jin-Shyan Lee

30007 mmWave UAV-assisted ICWSN for Disaster-Resilient Smart Cities: Preliminary Evaluation and Demonstration
Shintaro Mori, Fukuoka University, Japan

30012 Automating SDN-ACLs with User Groups and Authentication Events
Florian Grießer, School of Computation, Information and Technology, Technical University

Munich, Germany

30024 Localization of Mobile Devices in Future Wireless Networks

Ronald Beaubrun, Laval University, Canada

Session 14 [ACHI] Thursday

Session Chair: Igor Nazareno Soares

20056 The Use of Artificial Intelligence for Personalized Learning: Teacher Perspective

Simen Hellesnes, Norwegian University of Science and Technology, Norway

Trym Simensen Nerem, Norwegian University of Science and Technology, Norway

20077 Co-Design of an Adaptive User Interface for the Visually Impaired People

Audrey Ambles, University of Picardie Jules Verne, France

20095 Virtual Multiuser Environment for Adapted physical Activity and Rehabilitation for Older Adults: Usability and Acceptance Evaluation

Vania Mota, Ordem de São Francisco do Porto, Portugal

Session 15 [GEOProcessing, eLmL] Thursday

Session Chair: Simen Hellesnes,

30030 Advanced User Interface for a Geospatial Data Integration Platform

Lassi Lehto, Finnish Geospatial Research Institute, Finland

50013 Bridging Natural Language and Code by Transforming Free-Form Sentences into Sequence of Unambiguous Sentences with Large Language Model

Nikita Kiran Yeole, Virginia Polytechnic and State University, USA

Michael Hsiao, Virginia Tech, USA

50018 Raspberry Pi Controller for Remote Laboratory Hardware Access

Alexander Lampe, Hochschule Mittweida, Germany

Rico Beier-Grunwald, Hochschule Mittweida - University of Applied Sciences, Germany

Session 16 [ALLSENSORS, SMART ACCESSIBILITY] Thursday

Session Chair: Trym Simensen Nerem

70005 Characterization of a Thermoformed Piezoelectret Accelerometer under Electrodynamic Vibration Conditions

Igor Nazareno Soares, University of São Paulo, Brazil

88009 Challenges of producing accessibility data for public transport and travel chains

Merja Saarela, Häme University of Applied Sciences, Finland

Atte Partanen, Häme University of Applied Sciences, Finland

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