

# Onsite Activities (*Preliminary*) Program

## NetWare 2024 & SocSys 2024

### Conference Hotel

### Conference Venue Location

Conference will be mixed online and on location at

### Hotel Novotel Cap 3000

40 avenue du Verdun  
06700 Saint Laurent du Var

**Hotel:** <https://all.accor.com/hotel/0414/index.en.shtml>

**Phone:** +33 4 93 19 55 55

**Email:** [h0414@accor.com](mailto:h0414@accor.com)

**Updated as of October 25, 2024**

**The program will be continuously updated.**

**NetWare 2024:** <https://www.iaria.org/conferences2024/ProgramSENSORCOMM24.html>

**SocSys 2024:** <https://www.iaria.org/conferences2024/ProgramMODERNSYSTEMS24.html>

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

**Sunrise and Sunset time:** <https://meteogram.org/sun/france/saint-laurent-du-var/>

Time slots	Activity
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### Sunday, Nov 3

12:00pm	<b>Registration starts</b> The registration desk is located 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 #1</b> <b>Theme:</b> Diving Into generative-AI to Assess its Current State <b>Lecturer</b> Prof. Dr. Petre Dini, IARIA, USA/EU <b>Chair</b> Svetlana Boudko
14:45 - 15:00	<b>Coffee Break</b>
15:00 - 16:00	<b>Keynote #1</b> <b>Theme:</b> Secure Data Processing in AI Applications Through Federated Learning and Homomorphic Encryption

	<p align="center"><b>Speaker</b> Sr Scientist Dr. Svetlana Boudko, Norwegian Computing Center in Oslo, Norway</p> <p align="center"><b>Chair</b> Petre Dini</p>
16:00 - 16:15	<b>Coffee</b>
16:15 - 17:45	<p align="center"><b>Open Discussion #1</b> Where Should/Could AI be Used and Where it Should/Could not be Used</p> <p align="center"><b>Coordinator</b> Prof. Dr. Petre Dini, IARIA, USA/EU</p>
17:45 - 18:00	<b>Social Networking</b>
18:00 - 19:00	<b>Welcome Cocktail</b>

**Monday, Nov 4**

08:50 - 09:00	<b>Daily Opening</b>
09:00 - 10:00	<p align="center"><b>Keynote Speech</b></p> <p align="center"><b>Theme:</b> Securing Enterprise Applications: Security Models and Adaptive Access Control for Consistent Access Rights in Dynamic Environments</p> <p align="center"><b>Speaker</b> Prof. Dr. Alexander Lawall, IU International University of Applied Science, Deutschland</p> <p align="center"><b>Chair</b> Svetlana Boudko</p>
10:00 - 10:15	<b>Coffee</b>
10:15 - 11:45	<b>Session 1 [SECURWARE]</b>
11:45 - 12:00	<b>Coffee break</b>
12:00 - 13:30	<b>Session 2 [SENSORDEVICES]</b>
13:30 - 15:00	Lunch on your own
15:00 - 16:30	<b>Session 3 [SECURWARE 2024/ECSTAI + ASSURE-PN]</b>
16:30 - 16:45	<b>Coffee Break</b>
16:45 - 18:30	<p align="center"><b>Panel #1</b></p> <p align="center"><b>Theme:</b> Navigating the Challenges in Security and Safety of Cyber-Physical Systems</p> <p align="center"><b>Moderator</b> Salvatore Vella, CEO Toogood Ventures Inc. &amp; Ph.D. candidate, Toronto Metropolitan University, Canada</p> <p align="center"><b>Panelists</b> Dr. Annabelle Mercier, University Grenoble Alpes - Laboratoire LCIS, France Prof. Dr. Hiroki Takakura, National Institute of Informatics, Japan Prof. Dr. Alexander Lawall, IU International University of Applied Science, Deutschland Assoc Prof. Dr. Livinus Obiora Nweke, Noroff University College - Oslo, Norway Dr. Svetlana Boudko, Norwegian Computing Center in Oslo, Norway</p>
18:30 - 18:45	<b>Coffee</b>
18:45 - 19:45	<p align="center"><b>Ad Hoc Open Discussion #2</b> [ALL ABOUT generative-AI]</p> <p align="center"><b>Coordinator</b> Prof. Dr. Petre Dini, IARIA, USA/EU</p>

**Tuesday, Nov 5**

08:50 - 09:00	<b>Daily Opening</b>
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09:00 - 10:00	<p align="center"><b>Keynote Speech</b></p> <p align="center"><b>Theme:</b> A Public Key Infrastructure for Multi-embedded-agent Systems</p> <p align="center"><b>Speaker</b></p> <p align="center">Prof. Dr. Annabelle Mercier, Université Grenoble Alpes - Laboratoire LCIS, France</p> <p align="center"><b>Chair</b></p> <p align="center">Alexander Lawall</p>
10:00 - 10:15	<b>Coffee</b>
10:15 - 11:45	<b>Session 5 [SECURWARE]</b>
11:45 - 12:00	<b>Coffee break</b>
12:00 - 13:30	<b>Session 6 [SECURWARE, CENICS, GREEN]</b>
13:30 - 15:00	Lunch on your own
15:00 - 16:30	<b>Session 7 [HEALTHINFO/CHU I]</b>
16:30 - 16:45	<b>Coffee Break</b>
16:45 - 18:15	<b>Session 8 [HEALTHINFO/CHU II]</b>
18:15 - 18:30	<b>Coffee</b>
18:30 - 20:15	<p align="center"><b>Panel #2</b></p> <p align="center"><b>Theme:</b> Advances and Adversities in Digital Health in Modern Society</p> <p align="center"><b>Moderator</b></p> <p align="center">Derek Ross, University of Limerick, Ireland</p> <p align="center"><b>Panelists</b></p> <p align="center">Prof. Dr. Ita Richardson, Lero - the Science Foundation Ireland Research Centre for Software and University of Limerick, Ireland</p> <p align="center">Ph.D. Candidate Poulomi Guha, University of North Texas, USA</p> <p align="center">Dr. Antoine Riaud, ABB, Switzerland</p> <p align="center">Ph.D. Candidate Felicien Izaturwanaho, School of Psychology, Trinity College Dublin, Ireland</p> <p align="center">Ph,D, Candidate Mustafa Ahmed, Queen Margaret University, UK</p> <p align="center">Prof. Dr. Petre Dini, IARIA, USA/EU</p>

### Wednesday, Nov 6

08:50 - 09:00	<b>Daily Opening</b>
09:00 - 10:00	<p align="center"><b>Keynote Speech</b></p> <p align="center"><b>Theme:</b> Giant Magneto-Impedance Effect for Magnetic Sensors: Challenges, Advances and Perspectives</p> <p align="center"><b>Speaker</b></p> <p align="center">Prof. Dr. Arcady Zhukov, Doctor of Sciences, Department of Polymers and Advanced Materials, Univ. Basque Country (UPV/EHU) and IKERBASQUE, Basque Foundation for Science, Bilbao, Spain</p> <p align="center"><b>Chair</b></p> <p align="center">Sung Ho Cho</p>
10:00 - 10:15	<b>Coffee</b>
10:15 - 11:45	<b>Session 9 [SENSORCOMM]</b>
11:45 - 12:00	<b>Coffee break</b>
12:00 - 13:30	<b>Session 10 [SECURWARE, MODERN SYSTEMS]</b>
13:30 - 15:00	Lunch on your own
15:00 - 16:30	<b>Session 11 [SENSORDEVICES 2024/AMSeMSA I]</b>
16:30 - 16:45	<b>Coffee Break</b>
16:45 - 18:15	<b>Panel #3</b>

	<p><b>Theme:</b> Trends in Sensors and Sensing Data Processing</p> <p><b>Moderator</b> Prof. Dr. Sung Ho Cho, Hanyang University, Republic of Korea</p> <p><b>Panelists</b> Prof. Dr. Manuela Vieira, CTS-UNINOVA, Portugal Prof. Dr. Valentina Zhukova, UPV/EHU, Spain Prof. RNDr. Rastislav Varga, DrSc. RVMagnetics a.s., Slovakia Prof. Dr. Paula Louro, ISEL-IPL/CTS-UNINOVA-LASI, Portugal</p>
18:15 - 18:30	<b>Coffee</b>
18:30 - 19:30	<b>Session 12 [SENSORDEVICES 2024/AMSeMSA II]</b>
	<b>Welcome and Show Pre-Conference Dinner</b>
20:30 - 23:30	<b>Conference Dinner</b>

### Thursday, Nov 7

08:50 - 09:00	<b>Daily Opening</b>
09:00 - 10:00	<p><b>Keynote Speech</b> <b>Theme:</b> Applications of Radar Sensors in Remote Health Monitoring</p> <p><b>Speaker</b> Prof. Dr. Sung Ho Cho, Hanyang University, Republic of Korea</p> <p><b>Chair</b> Martin Zinner</p>
10:00 - 10:15	<b>Coffee Break</b>
10:15 - 11:45	<p><b>Panel #4</b> <b>Theme</b> Advances in Systems Resilience and Robustness</p> <p><b>Moderator</b> Dr. Martin Zinner, Technische Universität Dresden, Germany</p> <p><b>Panelists</b> Project Assoc. Prof., Dr. Hirokazu Hasegawa, National Institute of Informatics, Japan Eng. Timm Bostelmann, FH Wedel (University of Applied Sciences), Germany Dr. Svetlana Boudko, Norwegian Computing Center in Oslo, Norway Prof. Dr. Petre Dini, IARIA, USA/EU</p>
11:45 - 12:00	<b>Coffee</b>
12:00 - 13:30	<b>Session 13 [SENSORDEVICES]</b>
13:30 - 13:45	<b>Coffee Break</b>
13:45 - 15:30	<b>Session 14 [SECURWARE, MODERN SYSTEMS]</b>
15:30 - 15:45	<b>Coffee and Closing Session</b>

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

#### (a) Cap 3000 vicinity, Nice, Cannes, Sint Tropez

[Allianz Riviera Stadium](#)  
[Cap 3000](#)  
[Marineland](#)  
[Monaco City Center](#)  
[Chagall Museum](#)  
[Matisse Museum](#)  
[Nice Old Town](#)  
[Palais Nikaia](#)

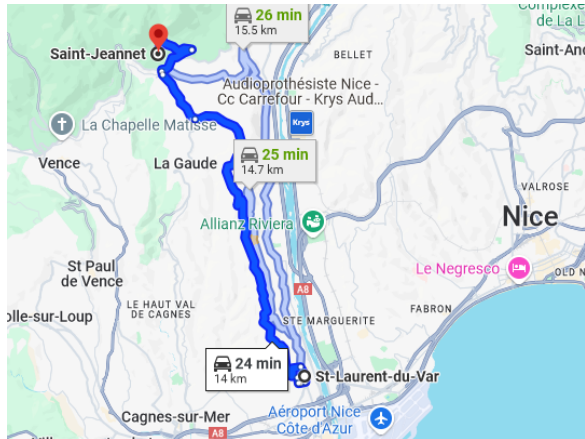
Parc Phoenix  
Promenade des Anglais - Nice  
Nautica Harbor – Nice  
Cannes  
Saint Laurent du Var  
Saint Tropez

**(b) Special group visit (suggestion: on site ad hoc group)**

Saint-Jeannet, ~ 30-40 minutes, by bus #54 (Lignes d'Azur)

#54 bus schedule: [https://moovitapp.com/index/en/public\\_transit-line-54-Nice-3260-854685-648274-2](https://moovitapp.com/index/en/public_transit-line-54-Nice-3260-854685-648274-2)

Regular schedule hours: 07:13 - 19:42, frequency: 24-36 minutes



## Regular sessions

### Session 1 [SECURWARE] Monday, 10:45am

Session Chair: Paula Louro

30089 Blue Team Fundamentals: Roles and Tools in a Security Operations Center

*Jenny Hofbauer, CARISSMA Institute for Electric, Connected, and Secure Mobility, Technical University Ingolstadt, Germany*

30085 Evaluating Performance Characteristics of Threshold Fully Homomorphic Encryption for Distributed Analytics Scenarios

*Svetlana Budko, Norwegian Computing Center, Norge*

### Session 2 [SENSORDEVICES] Monday, 12:00pm

Session Chair: Svetlana Budko

20024 Mobility of AGVs supported with Visible Light Communication

*Paula Louro, ISEL-IPL/CTS-UNINOVA-LASI, Portugal*

20011 On the Noise Floor of Constant Temperature Thermal Conductivity Detectors [PRESENTATION]

*Antoine Riaud, ABB, Switzerland*

20021 Indoor Guidance in Multi-Terminal Airports through Visible Light Communication

*Manuela Vieira, CTS-UNINOVA, Portugal*

### Session 3 [SECURWARE 2024/ECSTAI +ASSURE=PN] Monday, 3:00pm

Session Chairs: Salvatore Vella

Introduction

Salvatore Vella

38006 An AI-based Cognitive Architecture for Augmenting Cybersecurity Analysts

*Salvatore Vella, Toronto Metropolitan University, Canada*

38001 Detecting Denial of Service Attacks in Smart Grids Using Machine Learning: A Study of IEC-61850 Protocols - on site

*Livinus Obiora Nweke, Noroff University College, Norway*

### Session 4 [ALL ABOUT AI - Ad hoc Open Discussion] Monday, 4:45pm

Coordinator: Petre Dini

Theme: ALL ABOUT AI

### Session 5 [SECURWARE] Tuesday, 10:15am

Session Chair: Timm Bostelmann

30076 Merging Digital Twins and Multi-Agent Systems approaches for Security Monitoring

*Annabelle Mercier, Université Grenoble Alpes - Laboratoire LCIS, France*

30080 Vehicle Security Operations Center for Cooperative, Connected and Automated Mobility  
*Kevin Mayer, Technische Hochschule Ingolstadt, Ingolstadt, Germany*

30065 Fingerprinting and Tracing Shadows: The Development and Impact of Browser Fingerprinting on Digital Privacy  
*Alexander Lawall, IU International University of Applied Science, Deutschland*

**Session 6 [SECURWARE, CENICS, GREEN] Tuesday, 12:00pm**

Session Chair: Kevin Mayer

30063 A Comparative Study of Backbone Architectures for Language Model-Based Intrusion Detection  
*Benedikt Pletzer, OTH Regensburg, Germany*

30067 Forensic Analysis of GAN Training and Generation: Output Artifacts Assessment of Circles and Lines  
*Stefan Seidlitz, Otto-von-Guericke- Universität Magdeburg, Germany*

50003 Towards a Low Cost, Microcontroller-Based Class-D Audio Amplifier  
*Timm Bostelmann, FH Wedel (University of Applied Sciences), Germany*

30060 Information Hiding Detection in Industrial Control Systems - Statistical Analysis in Modbus TCP/IP  
*(Robert Altschaffel, OVGU Magdeburg, Germany)*  
*Stefan Seidlitz, Otto-von-Guericke- Universität Magdeburg, Germany*

80019 Measurement Based Time-Domain Power Saving Through Radio Equipment Deactivation on Sub-6GHz Base Station Site  
*Youssef Agram, ULB, Belgium*

**Session 7 [HEALTHINFO 2024 /CHU I + HEALTHINFO] Tuesday, 3:00pm**

Session Chairs: Derek Ross

Introduction

Katie Crowley, University of Limerick, Ireland

Ita Richardson, Lero/HRI/university of Limerick, Ireland

98001 Deep Learning-Driven ADL Recognition Using Smartwatches: A Pilot Study -  
*Mustafa Ahmed, Queen Margaret University, UK*

98003 User Requirements for a Mobile Health Record App for Enhancing Inclusion Health Services for Trauma-Informed and Integrated Care: A Systematic Literature Review with a Realist Lens  
*Felicien Izaturwanaho, Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin, Ireland*

90037 Social Engagement Embeddings of Parkinson's Disease through Autoencoders  
*Poulomi Guha, University of North Texas, USA*

**Session 8 [HEALTHINFO 2024 /CHU II + HEALTHINFO] Tuesday, 4:45pm**

Session Chairs: Ita Richardson

98010 Improving Hip Fracture Patient Pathways  
*Alison O'Connor, University of Limerick, Ireland*

98011 User and Developer Perspectives of Technology Enabled Care: Initial Findings from Public and Patient

Involvement (PPI) and Expert Panel Workshop Studies

*Derek Ross, University of Limerick, Ireland*

90018 Redefined to Fundamental Skills as a Common Scale for Mastering Manufacturing Skills Using SCAT

*Norikatsu Fujita, Polytechnic University of Japan, Japan*

Discussion + Closing remarks | Moderator: Derek Ross, Ita Richardson

**Session 9 [SENSORCOMM] Wednesday, 10:15am**

Session Chair: Markus Michael Peter

10003 Fluid Flow Speed Measurement System Using Fiber Bragg Grating Temperature Sensor based on Microwave Heating

*Atsushi Yarai, Osaka Sangyo University, Japan*

10008 Easy-to-use Wireless Sensor Network Simulator for Estimating Power Consumption and Communication Availability

*Yuta Hosokawa, Railway Technical Research Institute, Japan*

10014 NNEPS: Network-Updated E-Paper Signage with Reduced Standby Power Consumption [DEMO]

*Tsubasa Yumura, Hokkaido Information University, Japan*

*Takafumi Akiba, Hokkaido Information University, Japan*

10017 Shoe Recognition Model with Floor Pressure Sensors [DEMO]

*Sora Kamimura, Hokkaido Information University, Japan*

**Session 10 [SECURWARE, MODERN SYSTEMS] Wednesday, 12:00pm**

Session Chair: Meret Kristen

30043 Countermeasure against Insider Threat Regarding Psychological State of Organizational Members and Business Impact of Information Resources

*Yuki Kodaka, The Graduate University for Advanced Studies, Japan*

30051 Security-risk-mitigation Measures for Automotive Remote Diagnostic System

*Masaaki Miyashita, The Graduate University for Advanced Studies,*

30058 An Analysis Framework for Steganographic Network Data in Industrial Control Systems

*Eric Schüler, Technische Hochschule Brandenburg, Germany*

*Henning Ullrich, Technische Hochschule Brandenburg, Germany*

10002 Towards a User-Centric Systems Engineering Approach

*Markus Michael Peter, Josef Ressel Centre for Dependable System-of-Systems Engineering, Austria*

**Session 11 [SENSORDEVICES 2024/AMSeMSA I] Wednesday, 13:00pm**

Session Chairs: Arkady Zhukov

Introduction

Arkady Zhukov. Dpto. Fisica de Materiales, UPV/EHU, San Sebastian, Spain, España

28001 Spatially Distributed Annealing as a New Tuning of Magnetic Microwires

*Alexander Chizhik, University of Basque Country, Spain*



28002 Magnetic Properties and GMI Effect in Multilayered Co-rich Microwires  
*Valentina Zhukova, University of Basque Country, Spain*

28003 Optimization of GMI Effect and Magnetic Softness of Co-rich Microwires  
*Arkady Zhukov, Dpto. Fisica de Materiales, UPV/EHU, San Sebastian, Spain, España*

**Session 12 [SENSORDEVICES 2024/AMSeMSA II] Wednesday, 4:45pm**

Session Chairs: Arkady Zhukov

28004 Smart Actuators with Sensing Ability Based on Heusler Microwires [PRESENTATION]  
*Rastislav Varga, RVmagnetics a.s., Kosice, Slovakia*

28005 Magnetic Steel Health Monitoring in the Nano-scale  
*Tatiana Damatopoulou, National TU of Athens, Greece*

Discussion + Closing remarks | Moderator: Arkady Zhukov

**Session 13 [SENSORDEVICES] Thursday, 12:00pm**

Session Chair: Rastislav Varga

20006 Signal-Processing Algorithms for Sensor Arrays: A Brief Review  
*Sergio Domínguez-Gimeno, Universidad de Zaragoza, Spain*

20016 Enhancing Urban Intersection Efficiency: Leveraging Visible Light Communication for Traffic Optimization  
*Manuel Augusto Vieira, CTS-UNINOVA, Portugal*

20045 Gait Analysis of Healthy and Parkinson's Disease Patients in Elderly Population using FMCW Radar  
*Sung Ho Cho, Hanyang University, Republic of Korea*

**Session 14 [SECURWARE, MODERN SYSTEMS] 2:30pm (or 1:45pm)**

Session Chair: Manuel Augusto Vieira

30030 Fast Charging Communication and Cybersecurity: A Technology Review  
*Jakob Löw, Technische Hochschule Ingolstadt, Germany*

30036 Towards a Stakeholder-Centric Trust Management Approach for the Automotive Ecosystem  
*Marco Michl, Technische Hochschule Ingolstadt, Germany*

30041 Enhancing Phishing Detection: An Eye-Tracking Study on User Interaction and Oversights in Phishing Emails  
*Meret Kristen, OTH Regensburg, Germany*

10009 Increasing Manufacturing Resiliency by Using an In-line Qualification Approach  
*Martin Zinner, Technische Universität Dresden, Germany*

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