



**6<sup>th</sup> IFSA Winter Conference  
on Automation, Robotics & Communications  
for Industry 4.0/5.0/6.0 (ARCI' 2026)**

**2<sup>nd</sup> International Conference  
on Drones and Unmanned Systems  
(DAUS' 2026)**

# **Conference Programme**

**25-27 February 2026  
Salzburg, Austria**



**Organized by:**



## Message from Chairman

On behalf of the Organizing Committee, it is my great pleasure to welcome you to the 6<sup>th</sup> IFSA Winter Conference on Automation, Robotics & Communications for Industry 4.0/5.0/6.0 (ARCI' 2026) and the 2<sup>nd</sup> International Conference on Drones and Unmanned Systems (DAUS' 2026), to be held in Salzburg, Austria, on 25–27 February 2026.

Industry is undergoing a rapid transformation. Digital twins, intelligent sensing, and cyber-physical systems; autonomous and collaborative robotics; reliable connectivity and next-generation communications; edge intelligence and AI-enabled automation—all of these technologies are reshaping the foundations of Industry 4.0/5.0/6.0. In parallel, we are witnessing remarkable progress in UAVs and drone technologies: improved navigation and perception, more robust command-and-control links, higher operational safety and resilience, and new capabilities such as cooperative and coordinated multi-drone operations. These advances are opening broader applications across industrial inspection, infrastructure monitoring, smart logistics, environmental observation, and emergency response. Against this backdrop, ARCI' 2026 and DAUS' 2026 share a common mission: to highlight how the latest scientific results and engineering solutions translate into practical, deployable technologies for modern industry and society.

This conference umbrella provides a unique platform for presentations, discussions, and knowledge exchange, bringing together researchers, developers, and practitioners from universities, research institutes, and companies worldwide. Our goal is to showcase both theoretical and experimental breakthroughs, as well as applied solutions—spanning automation, robotics, industrial communications, drones, and unmanned systems.

Beyond the technical program, a valued tradition of our IFSA events is the opportunity to meet colleagues and build partnerships for joint research and innovation projects. We continue to pay special attention to this aspect by creating an engaging environment for networking during coffee breaks, the pre-conference visit, the welcome cocktail, the gala dinner, and the farewell cocktail—moments designed to encourage new professional connections and lasting collaborations.

The conferences are organized by the international, non-profit professional association IFSA, serving industry and the academic community since 1999, in cooperation with the IFSA Group's company IFSA Publishing, S.L. (Spain), and with the support of our media partners and publishers—MDPI (Switzerland) and SCIEPublish (China).

We are confident that your participation in ARCI' 2026 and DAUS' 2026 will bring you professional satisfaction and inspiration, along with an enjoyable and memorable experience in Salzburg. Welcome to ARCI' 2026 and DAUS' 2026 !

*Prof., Dr. Sergey Y. Yurish*  
*Conference Chairman*

## **Conferences Venue**

The Conference Umbrella will take place in the modern 4-star FourSide Hotel (Trademark Collection by Wyndham), situated in the walking distance from Messezentrum Salzburg, Salzburgarena, and public transportation. Salzburg Airport (SZG) is 7 km away and the main station - 2 km. Bus line number 1 leaves every 8 minutes for the city centre from a stop right in front of the hotel. Free parking in front of the hotel and paid garage parking. Address: Am Messezentrum 2, 5020 Salzburg, Austria.

## **Registration**

The Registration Desk is opened in FourSide Hotel:

- Tuesday, 24 February 2026, from 19:00-20:00
- Wednesday, 25 February 2026, from 8:45-18:00
- Thursday, 26 February 2026, from 8:45-18:00
- Friday, 27 February 2026, from 8:45-18:00.

## **Language**

The official language of the Conferences is English. There will be no simultaneous interpretation.

## **Insurance and Liability**

The conferences organizers do not accept responsibility for any individual, medical, travel or personal insurance policies as necessary.

## **Conference Identification Tag**

The Organizing Committee request that you wear your identification tag (badge) at all times during the conference. Your conference identification tag will serve as your admission to all conference paper presentation sessions.

## **Welcome Cocktail**

24 February 2026, Tuesday (19:00-20:00). The Welcome Cocktail will take place in FourSide venue hotel, in the foyer near conference rooms (ground floor). Do not miss this opportunity to say the first "hello" to attendees and committee members The Registration will be opened at the Welcome Cocktail area.

## Coffee/Tea Refreshment

Coffee/tea will be served in the lobby near the conference rooms at the times indicated in the programme.

## Gala Dinner

26 February 2026, Thursday (20:00-22:00). The Gala Dinner will take place in FourSide hotel's main restaurant (ground floor),

## Local Time

The local time in Salzburg is: UTC +1 / Central European Time (CET)

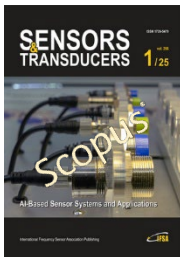
## Conferences' Web Sites

ARCI' 2026: [www.arci-conference.com](http://www.arci-conference.com)

DAUS' 2026: [www.daus-conference.com](http://www.daus-conference.com)

## Post-Conference Publications

Selected and extended papers presented at the conference will be published in one affiliated open access journals:



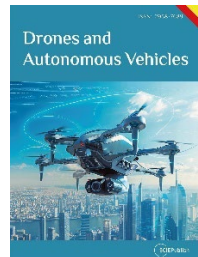
*Sensors &  
Transducers*  
(ISSN 2306-8515,  
e-ISSN 1726-5479)



*MDPI Processes*  
(ISSN 2227-9717)



*MDPI Machines*  
(ISSN 2075-1702)



*Drones and  
Autonomous  
Vehicles*  
(ISSN: 2958-7689)

Authors will be also invited to extend their articles into the book chapters for the open access Book Series '*Advances in Robotics and Automatic Control*', Vol. 4, '*Advances in Networks, Security and Communications*', Vol. 4 '*Advances in Intelligent Systems*', Vol. 4 and '*Advances in Drones & Unmanned Systems*', Vol. 1. These books will be published in 2026 and submitted to Web of Science for indexing.

## Organizing Committee

### Chairman

**Prof., Dr. Sergey Y. Yurish**  
*(IFSA, Spain)*

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*(University of Technology Sydney, Australia)*  
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*(University of Technology Sydney, Australia)*

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## Keynote Speaker I



### **Prof., Dr. Seung-Gon Kim**

*Department of Aeronautical and Astronautical Engineering, Korea Aerospace University, South Korea*

## **Development of Mission-Specific Fuel Cell Systems**

### **Abstract**

This presentation introduces the development of fuel cell systems made for special uses that are different from normal fuel cells used in cars or power plants. Fuel cells for aviation, military equipment, and space missions must meet specific requirements for each application. These systems must be not only lightweight and high-powered, but also regenerative and capable of using various hydrogen sources. Recent projects show several useful ideas, such as regenerative fuel cell systems for high-altitude use, and using Hydrogen compound for military purpose. By reviewing these development cases, this presentation explains the main challenges and simple design choices needed for special-purpose fuel cells. It also shows why customized fuel cell systems are becoming more important for future aerospace and defense applications.

### **Short Biography**

Dr. Seung-Gon Kim is currently a faculty member at Korea Aerospace University, specializing in fuel cell systems and advanced energy technologies. Before joining the university, he worked at the Korea Institute of Energy Research (KIER, National Lab), where he led research on next-generation hydrogen and fuel cell applications. His work focuses on special-purpose fuel cell systems for aviation, defense, and space platforms, as well as energy system integration and testing. Dr. Kim continues to contribute to national research programs and industry-academia collaboration in the fields of aerospace energy and clean propulsion technologies.

## Keynote Speaker II



### **Prof., Dr. Jae-Sung Bae**

*Department of Aeronautical and Astronautical Engineering, Korea Aerospace University, South Korea*

## **Introduction to UAV Researches at Korea Aerospace University**

### **Abstract**

Korea Aerospace University (KAU), a specialized aerospace university, is recognized in Republic of Korea for its outstanding research capabilities in the development and testing of unmanned aerial vehicles (UAVs). Recently, KAU conducted flight tests of a solar-powered UAV developed at KAU in Antarctica, demonstrating the potential of solar-powered UAVs in polar regions. This presentation will present recent research conducted at KAU on solar-powered UAVs, fixed-wing UAV aerial docking/reintegration, Morphing UAVs, eVTOL, and multi-UAV cooperation, etc.

### **Short Biography**

Jae-Sung Bae received his B.S. degree in Aeronautical and Mechanical Engineering from Korea Aerospace University in 1996 and his M.S. degree in Aerospace Engineering from KAIST in 1998. He then received his Ph.D. in Aerospace Engineering from KAIST in 2002. Dr. Bae is currently a Professor at the School of Aero-space and Mechanical Engineering at Korea Aerospace University in Goyang-City, Korea. His main research interests include aeroelasticity, vibration and control, UAVs, Morphing UAVs, and SPUAV (Solar Powered UAV).

## Keynote Speaker III



**Prof., Dr. Subhabrata Banerjee**  
*Department of Electronics and Communication  
Engineering, Institute of Engineering  
and Management, Kolkata, India*

### **Stability Analysis of Swarm Intelligence Algorithm and its Application in Industry 4.0**

#### **Abstract**

One of the most challenging areas of knowledge over the years has been the many optimization methodologies. Optimization algorithm development and evolution have been the subject of much examination and research since the early nineteenth century. In order to tackle optimization issues in the fields of science, engineering, economics, etc., a variety of gradient-based optimization techniques and linear programming approaches have been widely employed. In issues with more than one local optimum, these techniques haven't stabilized and haven't performed well. Additionally, neither of them is able to decrease the complexity of real-world engineering challenges. Therefore, comprehensive research has been done on Swarm Intelligence and numerous algorithms like Genetic Algorithm (GA), Particle Swarm Optimization (PSO), Differential Evolution (DE), Ant Colony Optimization (ALO), Harmony Search (HS), Cuckoo Search (SOS) have been proposed. Now, stability analysis of robust Swarm Intelligence algorithms and their application for Smart Manufacturing in Industry 4.0 have been emerged as important area of research. Its ensemble analysis along with Bounded Input Bounded Output (BIBO) have drawn a significant attention due to its astonishing precise and accurate data handling performances which is the most essential factor for modern communication systems.

#### **Short Biography:**

Dr. Subhabrata Banerjee is a professor in the department of Electronics and Communication Engineering, Institute of Engineering and Management, Kolkata, India. He received PhD degrees in Electronics and Telecommunication Engineering from renowned Jadavpur University, Kolkata, India. He has published more than 40 papers in International Conferences and International Journals of repute. He is also the author of three books. His current research interests include Communication and Coding Theory, Machine Learning, Robotics, IOT, Control System, and Evolutionary Algorithms, Soft Computation.

## Programme at Glance

| Time/Date<br>(UTC+1) | 25.02.2026<br>Wednesday   | 26.02.2026<br>Thursday  | 27.02.2026<br>Friday  |
|----------------------|---|---|---|
|                      | <i>Conference Rooms Mirabell 4+5</i>  |   |   |
| <b>8:45-9:00</b>     | Registration  | Registration  | Registration  |
| <b>9:00-9:15</b>     | * Opening Session<br><b>Sergey Y. Yurish</b><br>(IFSA President)                        | * Daily<br>announcements  | * Daily<br>announcements  |
| <b>9:15-10:00</b>    | Keynote Speaker I<br><b>Seung-Gon Kim</b><br>South Korea                                | Keynote Speaker II<br><b>Jae-Sung Bae</b><br>South Korea  | Keynote Speaker III<br><b>Subhabrata Banerjee</b><br>India  |
| <b>10:00-10:30</b>   | <i>Coffee Break</i>   | <i>Coffee Break</i>   | <i>Coffee Break</i>   |
| <b>10:30-12:30</b>   | Special Session:<br><b>Hydrogen Fuel Cell<br/>Systems for Air<br/>Vehicles and UAVs</b> | Special Session:<br><b>UASs in Korea</b>  | Zoom Session:<br>(Live Streams)   |
| <b>12:30-13:30</b>   | ** <i>Lunch</i>   | ** <i>Lunch</i>   | ** <i>Lunch</i>   |
| <b>13:30-14:30</b>   | Regular Session:<br><b>Robotics</b>   | Regular Session:<br><b>Robots: Design<br/>and Applications</b>  | Regular Session:<br><b>Smart Manufacturing,<br/>Communication<br/>and Artificial<br/>Intelligence</b> |
| <b>14:30-15:30</b>   |   |   |   |
| <b>15:30-16:00</b>   | <i>Coffee Break</i>   | <i>Coffee Break</i>   | <i>Coffee Break</i>   |
| <b>16:00-18:00</b>   | Regular Session:<br><b>Unmanned Aircraft<br/>Vehicles (UAV) and<br/>Systems</b>         | Regular Session:<br><b>Networks,<br/>Communications,<br/>Intelligence &amp;<br/>Coordination for<br/>Unmanned Systems</b> | Regular Session:<br><b>UAV Applications</b>   |
| <b>18:00-18:30</b>   | -   | -   | Closing Session<br><b>Sergey Y. Yurish</b><br>(IFSA President)  |
| <b>18:30-20:00</b>   | -   | -   | -   |
| <b>20:00-22:00</b>   | -   | <i>Gala Dinner</i>  | -   |

\* The must attend sessions.

\*\* All meals, including lunches are included into all registration fees.

# Technical Conference Programme

*Day 1*

*25 February 2026, Wednesday*

## **Special Session: Hydrogen Fuel Cell Systems for Air Vehicles and UAVs**

Chairman: **Prof., Dr. Seung-Gon Kim**  
Department of Smart Drone Engineering,  
Korea Aerospace University (South Korea)

- 1. A Study on System Modeling Techniques for Power Analysis of Hydrogen Fuel Cell Based C-172R Aircraft**  
Yang Youyoung, Oh Jeonghwan, Lee Junseong, Kim Sungsu and Lee Kwanghyun  
(South Korea)
- 2. Certification Strategies and Planning for Hydrogen Fuel Cell-Powered Normal Category Aircraft in Korea**  
Hyunjin Jung, Unyul Baek and Yonghoon Choi  
(South Korea)
- 3. Experimental Evaluation of a Fuel Cell Hybrid Propulsion System for a Fixed-Wing UAV**  
Jong-Bo Shin, Hae-In Kim, Seung-Gon Kim and Jae-Sung Bae  
(South Korea)
- 4. A Study on the Effect of Air Compressor Configuration on Proton Exchange Membrane Fuel Cells System for Aviation**  
Juwon Jang and Seung-Gon Kim  
(South Korea)
- 5. Hydrogen-Rich 3D-Printed Gyroid Lattice LEO Satellite Composites for Cosmic Ray Attenuation**  
Seunghyeon Kang, Chaehwan Lim, Jaewon Shim, Woomin Cho, Hyunung Oh and Youngwoo Nam  
(South Korea)

## Regular Session: Robotics

Chairman: **Prof., Dr. Takayoshi Yokota**  
Center for Data Science and Artificial Intelligence Education,  
Institute of Science Tokyo,  
(Japan)

- 1. A Code Generation Framework for Indoor Robot Applications based on Building Information Modeling (BIM)**  
Jan Dünneweber, Tim Hoffmann, Matthias Melzer and Florian Dietrich  
(Germany)
- 2. Sociability Modelling in Robot Motion by Integrating Legibility and Trustability**  
Haiwei Luo, Jin Zhang, Yaqing Luo and Gaoyong Luo  
(United Kingdom)
- 3. Terrain-Aware Path Planning for Unmanned Ground Vehicles in Orchard Environments**  
Mhd Ali Alshikh Khalil and Maria Rita Palattella  
(Luxembourg)
- 4. Consideration of a Mobile Robot That Moves Smoothly in Crowds**  
Shunta Iwahashi and Takashi Yoshimi  
(Japan)
- 5. Research and Development of a Thin Cloth Grasping Hand Using Dusting Brush Material**  
Hiroki Abe, Takashi Yoshimi, Motoki Hirayama, Jun Kitami and Takeshi Asami  
(Japan)

**Regular Session:  
Unmanned Aircraft Vehicles (UAV) and Systems**

Chairman: **Prof. Dr. Bertram Schuetz**  
Osnabrueck University of Applied Science  
(Germany)

- 1. A Lightweight Vision-Based GNSS Substitute for Small UAVs**  
Ludwig Kempf and Kevin B. Kochersberger  
(USA)
- 2. On the Potential of Public Network Dual-Use for Medium Altitude Long Endurance Remotely Piloted Aircraft Systems (MALE RPAS)**  
Gunnar Schneider, Michael Rachner, Jan Bauer and Bertram Schuetz  
(Germany)
- 3. Control Law Design for Stall Recovery of a Fighter Configured Unmanned Aerial Vehicle**  
Jaehun Yu and Sanghyuk Park  
(South Korea)
- 4. RCS-Based Wing Shape Optimization of a Delta-Wing UAV**  
Yeongjin Son and Dong-Kyun Im  
(South Korea)
- 5. Effects of Center-of-Gravity Offset on the Gust Response of a Tandem Helicopter**  
Hyugjin Song and Moonsung Cho  
(South Korea)
- 6. A Lightweight Sensor-Fusion Framework for Low-Cost UAV-Based Air-Quality Mapping Including Calibration and Uncertainty Assessment**  
Moni Sankar Saha (France)
- 7. Autonomous UAVs for Disaster Response: Terrain-Aware Target Detection and Payload Delivery**  
Aryan Sirsavkar, Muzammil Shaikh, Anuj Kale, Abhijeet Thore, Mayur Patil and Pawan Upadhye (India)

*Day 2*  
*26 February 2026, Thursday*  
**Special Session:**  
**UASs in South Korea**

Chairman: **Prof. Dr. Jae-Sung Bae**

Department of Aeronautical and Astronautical Engineering  
Korea Aerospace University (South Korea)

1. **Deep Reinforcement Learning-Based UAV Recovery Using a Mobile Manipulator with a Magnetic Gripper**  
Yonghyeon Kim, Janghyeop Lee and Hyun-Soo Yoon  
(*South Korea*)
2. **Development of an Autonomous Formation Flight System Based on Distributed Multi-Agent Control**  
Jaewan Choi and Younghoon Choi  
(*South Korea*)
3. **Design and Implementation of a Servo Motor Control Library for Drone Control Systems**  
Jinyoung Lee and Sungwook Cho  
(*South Korea*)
4. **An Integrated Process for UAS Available Airspace Evaluation Based on Multi Criteria Decision-Making**  
Geonwoo Kim and Huiyang Kim  
(*South Korea*)
5. **Geolocation of UAV Communication Jammers via Deep Learning-based Signal Classification on LEO SIGINT Constellation**  
Chanhee Jung and Zizung Yoon  
(*South Korea*)

## **Regular Session: Robots: Design and Applications**

Chairman: **Prof., Dr. Jan Dünneberger**  
East Bavarian Technical University of Regensburg  
(Germany)

- 1. Multi-Objective LQR-Based Optimization of Motion Cueing for Redundant Ski Simulator**  
Taha Houda, Lotfi Beji and Ali Amouri  
(*Saudi Arabia, France*)
  
- 2. Roadside Object Detection–Based Vehicle Localization**  
Takayoshi Yokota  
(*Japan*)
  
- 3. Research on Multi-Agent Crane Control System for Complex Industrial Scenarios**  
Siqing Zhang, Qili Chen and Wenbai Chen  
(*China*)
  
- 4. Development of a Tool-Carrying Robot for Nuclear Facility Decontamination** (pre-recorded video)  
Siavash Kazemi and Sascha Gentes  
(*Germany*)
  
- 5. CANopen over Modbus-TCP Gateway-Based Control of an Industrial Cartesian Robot** (pre-recorded video)  
Oussama Hadj Abdelkader, Hadjer Bouzebiba and Fernando Fontes  
(*Portugal*)

**Regular Session:  
Networks, Communications, Intelligence  
and Coordination for Unmanned Systems**

Chairman: **Dr. Stefan Valentin Baumgartner**  
German Aerospace Center (DLR)  
(Germany)

- 1. Data Offloading for Mobile Unmanned Systems - Evaluation of Throughput and Latency in a Private 5G Network**  
Bertram Schuetz, Felix Bott, Robert Holling, Olaf Stenzel, Jan Bauer and Steffen Greiser  
(Germany)
- 2. Digital Twin-Driven Multistorey Mapping with Cooperative Micro Aerial Vehicles**  
Tianxiong Zhang, Victor Victor and Uwe Aßmann  
(Germany)
- 3. Beyond the Ring: A Multi-Agent Reinforcement Learning Framework for Attack and Defense Intelligence in Drone Soccer**  
Chansoo Son and Andrew Jaeyong Choi  
(South Korea)
- 4. Kalman-Conditioned Action Chunking Transformers for Dynamic Object Grasping Toward Aerial Recovery Systems**  
Jiyeon Koo, Eunseom Pyo and Andrew Jaeyong Choi  
(South Korea)
- 5. STRIDE - Simulation Testbed for Real-time In-Flight Deconfliction Experiments**  
Lennie Carlén Eriksson, Emil Persson, Baran Çürüklü, Mikael Ekström and Carl Ahlberg  
(Sweden)
- 6. GA-SDG: A ROS 2 Genetic Algorithm-Based Framework for High-Fidelity GPS Spoofing Simulation and Dataset Generation in Support of IDS Research in UAS**  
Fahd Dehbi, Mohamed Zraib and Ahmed Chebak  
(Morocco)

Day 3:  
27 February 2026, Friday

**Virtual Session in Zoom:  
(Live Streams)**

Chairman: **Prof. Dr. Ahmedelbadawi Hussien**  
Warsaw University of Technology (Poland)

- 1. Policy and Institutional Drivers of UAV Innovation Ecosystems Under Economic Security Constraints**  
Koji Miwa and Koichi Sumikura (*Japan*)
- 2. SkySim: A ROS2-based Simulation Environment for Natural Language Control of Drone Swarms Using Large Language Models**  
Aditya Shibu (*United Arab Emirates*)
- 3. Secure Edge AI for Autonomous Decision-Making in Unmanned Aerial Systems**  
Sérgio Silva, Sérgio Silva and Sérgio Silva (*Portugal*)
- 4. Comparative and Joint Optimization of Rotor Speed and Trajectory for Energy-Efficient Electric Unmanned Aerial Vehicle (UAV) Helicopters**  
Emeka Chijioke and Marcin Zugaj (*Poland*)
- 5. 5G-AGROBOT: A Technological Framework for Automated Greenhouse Harvesting**  
Souhaima Stiri, Tian Yang, Maria Rita Palattella, Daryl Fuchs, Manuel Arrillaga and Catalin Chitu (*Luxembourg*)
- 6. Optimal Design of Miniaturized Cuboid Soft Joints for Miniaturized Robots**  
Chibundo Nwafor and Redwan Dahmouche  
(France)
- 7. Designing an Artificial Knee with Advanced Materials to Enhance Functionality and Durability**  
Mohammed Al-Habri, Ulviye Bunyatova and Mustafa Dogan (*Turkey*)

8. **A New Recognition System for Electrocardiogram Based on Wavelet Transform with Pseudo Differential Like Operators**  
Takayuki Okai, Shunta Noguchi, Yuuki Ichiba, Hidetoshi Oya, Md. Masudur Rahman, Minoru Yoshida and Yoshikatsu Hoshi (*Japan, Bangladesh*)
9. **ReFair: A Framework for Retention Depolarization in Recommender Systems**  
Junaid Ahmed Iqbal (*USA*)

**Regular Session:  
Smart Manufacturing, Communication  
and Artificial Intelligence**

Chairman: **Dr. Taha Houda**

Prince Mohammad bin Fahd University (Saudi Arabia)

1. **Architecture for Digital Twins in Manual Assembly Within the Industrial Metaverse**  
Annamria Arnouk, Martin Behm and Christian Borck (*Germany*)
2. **Enabling Decentralized Provision of Asset Administration Shell Endpoints Across Dataspaces: Insights from Existing Ecosystems**  
Pooja Kumari Gupta, Alfred Barnard, Matthias Riedl and Bernd Lüdemann-Ravit (*Germany*)
3. **A Machine Learning Approach to RSSI-based Intrusion Detection in BLE IoT Networks**  
Sumesh Philip (*USA*)
4. **Zero-Shot Benchmarking of Vision-Language Models for Device Disassembly**  
Fatima Aziz, Nikola Marić, Boris Kuster, Aleš Ude and Boshko Koloski (*Slovenia*)

**5. Robust Retrieval of Train Operation Pattern from Large Video Data Sets**

Johannes Hoentsch and Sven Scholz  
(Germany)

**Regular Session:  
UAV Applications**

Chairman: **Mr. Hyunjin Jung**

Korea Institute of Aviation Safety Technology  
(South Korea)

**1. Advanced Unmanned Vehicle Systems for Port Security**

Rafael Company, José Miguel Higón, Ángel Laguna, Marina Gabarda, Daniel Severinsen and Simone Contorno  
(Spain, Germany)

**2. Active Thermographic Inspection System Integrated on a Drone Platform**

Shashank Pant, Stephane Brunet, Dmitrii Klishch, Gurpreet Singh and Marc Genest  
(Canada)

**3. Improving Crisis Response with a Combined Air Picture and Collaborative Mission Planning**

Gunnar Schwach, Johanna Bethge, Niklas Peinecke and Johanna Rieke  
(Germany)

**4. Distributed UAV-SAR: A Distributed Drone-Based Synthetic Aperture Radar System for the Investigation and Demonstration of Novel Applications, Imaging Algorithms and Future Spaceborne Radar Concepts**

Stefan Valentin Baumgartner, Lucas Lamberti Leonardo, Sofia Judith Sanchez Urresta, Victor Mustieles Pérez, Thomas Börner, Michelangelo Villano and Gerhard Krieger  
(Germany)

- 5. The African Drone and Data Academy: Malawi's Talent Pipeline**  
Kevin Kochersberger, Suresh Muthukrishnan, Ndapile Mkuwu,  
Chikondi Chisenga and Michael Scheibenreif  
(USA, Malawi, Austria)
- 6. Hybrid Distillation with CoT Guidance for Edge-Drone Control Code Generation**  
Yizhan Feng, Hichem Snoussi, Yuhang Wang, Jing Teng, Abel  
Cherouat and Tian Wang  
(China, France)

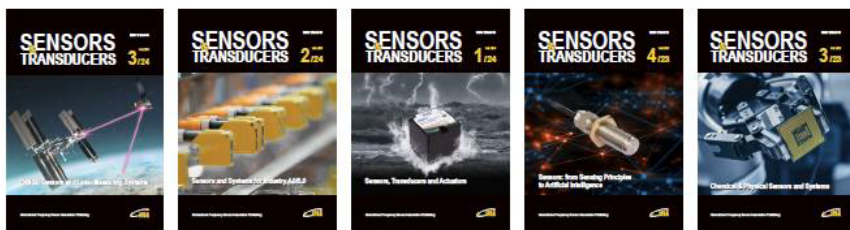
## **Pre-Recorded Video Presentations**

- 1. Cooperative UAV Payload Transport with Autonomous Navigation**  
Alice James, Avishkar Seth, Endrowednes Kuantama, Subhas  
Mukhopadhyay and Richard Han  
(Australia)
- 2. Hybrid Distillation with CoT Guidance for Edge-Drone Control Code Generation**  
Yizhan Feng, Hichem Snoussi, Yuhang Wang, Jing Teng, Abel  
Cherouat and Tian Wang  
(China, France)
- 3. Multi-frequency, Multi-Direction Array Optimization for Acoustic Drone Localization**  
Nathan Itare, Jean-Hugh Thomas and Kosai Raoof  
(France)
- 4. Decentralized Potential-Field Control for Drone Swarms in Bounded Airspace**  
Marlon Michael Lopez-Flores, Fabio Suim Chagas, Fábio Luiz  
Júnior,  
Nina Machado Figueira and Paulo Fernando Ferreira Rosa  
(Brazil)
- 5. 3D Reconstruction from UAV Integrated Sensors and Topology Optimization for Real-Time Simulation**  
Rodrigo Arantes, Paulo Rosa, Gabriela Moutinho and Nina Figueira  
(Brazil)

- 6. A UAV-Enabled Overhead Digital Twin for Real-Time AGV Traffic Management in Confined Environments**  
Nacera Bahnes  
*(Algeria)*
  
  - 7. Static and Dynamic Analysis of Two-Link Flexible Manipulator in ANSYS**  
Semiha Bulut  
*(Turkey)*
  
  - 8. UAV-Based Supervisory Coordination for Collision-Free Navigation of Automated Guided Vehicles in Confined spaces**  
Nacera Bahnes  
*(Algeria)*
-

## 5 Top Reasons to Publish Your Articles in S&T Journal

- 1 Sensors & Transducers journal is peer reviewed, open access international journal, published by International Frequency Sensor Association (IFSA) since 2000
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