



جامعة السلطان قابوس
Sultan Qaboos University



UVS-OMAN 2024 12-14
CONFERENCE FEB
2024
SULTAN QABOOS UNIVERSITY MUSCAT

2nd International Conference on Unmanned Vehicle Systems Call For Papers



Conference Website: <http://uwsc.om>

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TARGETED AUDIENCE

Anyone interested in using, developing, and regulating UVS.

SUBMISSIONS

All submission should be done through EDAS:
<https://edas.info/>

Submission should include the following details:

- Name, title, work address, email and phone number,
- Short biography of the main contributor (including qualification, occupation and affiliations about 100 words).
- Summary or abstract of the contribution up to 200 words.

Parallel Activities

In parallel with the conference event, workshops will be organized on a number of specialized subjects for UVS developers and end-users. In addition, an exhibition of UVS products will be presented.



WORKSHOPS



COMPETITIONS



EXHIBITION

MAJOR TOPICS

The range of targeted topics is very broad, but priority is given to subjects on real world applications; including: research, industry, business, and education. Based on this, the Technical Program Committee is inviting proposals for paper presentations, demonstrations, and poster contributions on any engineering topic relevant to UVS. These include but not limited to the following:

1. Guidance Navigation and Control of UVS



- Guidance Methods
- Navigation Algorithms
- Autonomy\
- GIS and Mapping
- Smart Sensing & Avoidance
- AI Applications in GNC

2. Machine Vision in UVS



- Vision Sensors
- Sensors Fusion
- Deep Learning & Image Processing
- UVS Embedded Architectures
- Open Source Software Applications

3. Operations and Maintenance



- Certification Standardization
- Regulations & Environmental Challenges
- Safety
- Security
- Reliability & Performance
- Anti-drone Systems

4. Power in UVS



- Power Management Systems
- Energy Efficient UVS
- Payloads
- Renewable Energy Technology in UVS

5. Networked UVS and Communications



- Multi Drone System
- Coordination & Cooperation
- Communication Protocols
- Communication Modules

6. Applications of UVS



- Oil & Gas
- Architecture Engineering
- Disaster Relief
- Tourism
- Agriculture
- Surveillance & Border Patrol
- Cultural Heritage Preservation
- Film Making
- Power Systems
- Inspection
- Education Training

7. Curious & Crazy Ideas on UVS.



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Location:

Sultan Qaboos University
P.O. Box 50, Postal code 123
Al-Khoud, Muscat
Sultanate of Oman

Information

Any comments or requests should be submitted through: uvs-oman@squ.edu.om

