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#### Homepage

[www.icius2018.org](http://www.icius2018.org)



#### ABOUT THE CONFERENCE

ICIUS 2018 is organized by the International Society of Intelligent Unmanned System. The conference will be held in Jeju, South Korea, from August 20<sup>th</sup> to 23<sup>rd</sup>, 2018. The event is the 14<sup>th</sup> conference extending from previous conferences held in Seoul-Korea (2005, 2006), Bali-Indonesia (2007, 2010, 2015), Nanjing-China (2008), Jeju-Korea (2009), Chiba-Japan (2011), Singapore (2012), Jaipur-India (2013), Montreal-Canada (2014), Xian-China (2016) and Tamsui-Taiwan (2017). ICIUS 2018 offers a unique and interesting platform for scientists, engineers and practitioners throughout the world to present and share their most recent research and innovative ideas in the areas of unmanned systems, robotics, automation, and intelligent systems.

#### TOPICS OF INTERESTS

ICIUS is an annual conference, which is to stimulate interactions among researchers active in the areas pertaining to intelligent unmanned systems. The topics of interests include, but are not limited to:

- **Unmanned Systems:** Micro air vehicle, Underwater vehicle, Micro-satellite, Unmanned aerial vehicle, Multi-agent systems, Autonomous ground vehicle, Blimp, Swarm intelligence
- **Robotics and Biomimetics:** Artificial muscle actuators, Smart sensors, Design and applications of MEMS/NEMS system, Intelligent robot systems, Evolutionary algorithm, Control of biological systems, Biological learning control systems, Neural networks, Bioinformatics
- **Control and Computation:** Distributed and embedded systems, Embedded intelligent control, Complex systems, Pervasive computing, Soft computing, Discrete event systems, Hybrid systems, Networked control systems, Delay systems, Identification and estimation, Nonlinear systems, Precision motion control, Control applications, Control engineering education, Computer Architecture & VLSI, Signal, image and multimedia processing
- **Intelligent Systems:** Ubiquitous computing, Algorithms, Distributed intelligence, Distributed/decentralized intelligent control, Fuzzy systems, AI and expert systems, Virtual reality, Wearable computers, Information systems and retrieval, Software engineering, Knowledge data engineering, Data communications and compression
- **Space Robots:** Aircraft flight dynamics and control, Space navigation and guidance, Spacecraft cooperative and control, Real-time distributed simulation, Orbital servicing technology in space, Traffic management and control

#### CONTRIBUTED PAPERS

Prospective authors are invited to submit the full version of their manuscripts in MS Word or LaTeX format. Accepted papers are limited to 4 pages and must be formatted in the standard ICIUS format. Detailed instructions for paper submission are available on the conference website.

All accepted papers will be further reviewed for post conference journal publications in International Journal of Intelligent Unmanned Systems (IJIUS), Journal of Unmanned System Technology (JUST), Journal of Instrumentation, Automation and Systems (JIAS), and International Journal of Mechatronics and Robotics (IJMR). Any contributed or invited paper can be nominated for the **ICIUS 2018 Best Conference Paper Award** and the **ICIUS 2018 Best Student Paper Award**. The final evaluation by the awards committee will take into account the presentations at ICIUS 2018.

#### INVITED SESSIONS

The conference will feature invited sessions on new topics and innovative applications. These sessions will consist of 5-6 articles and undergo a regular review process. Prospective organizers should include a brief statement of purpose for the session as well as the abstracts of the papers.

## ABOUT JEJU

Jeju is a volcanic island located 130 kilometers from the southern coast of the Korean Peninsula, and is the main island of Jeju Province of South Korea. Covering an area of about 1,848 square kilometers, the island contains the natural World Heritage Site Jeju Volcanic Island and Lava Tubes (UNESCO).



## Mount Halla

A central feature of Jeju is Mt. Halla, the tallest mountain in South Korea and a dormant volcano. Rising 1,950 meters from the sea level, with varying temperatures year around, Mt. Halla houses over 1,800 plant species and 4,000 animal species which account for 3,300 species of insects. On top of the volcano, Baengnokdam, a crater lake which was formed over 25,000 years ago, is considered by the natives as the holiest place in Jeju.



## Sunrise Peak (Seongsan Ilchulbong)

Sunrise Peak is an archetypal tuff cone rising from seabed in a volcanic eruption. Situated in the eastern end of Jeju, this tuff cone has a huge bowl-like crater at the top. With sharp rocks surrounding the crater, it looks like a gigantic crown. The sunrise from the crater is magnificent. The northwest side is a verdant grassy hill that provides an ideal spot for walks and for horse riding.



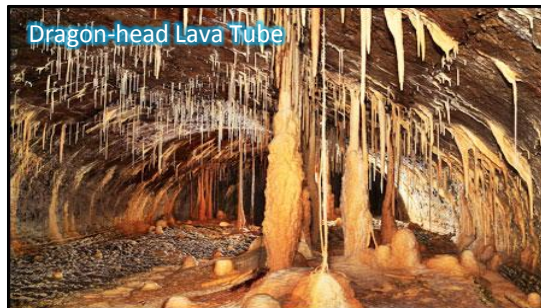
## Sites for Korean Dramas

It is also another fun to visit many filming sites for Korean dramas, such as Oedolgae for "Dae Jang Geum" and Seopjikoji for "All-in".



## Lava Tubes

Jeju is scientifically valuable for its extensive system of lava tube. These natural conduits through which magma once flowed are now empty caves that are some of the largest in the world. Although these lava tubes are extremely large and ancient, the internal morphological features are well-preserved and the inner scenery is considered to be outstanding.



## Conference Venue

The conference will be held at Ocean Suites Jeju Hotel. Located on the northern coast of Jeju Island, just a 16-minute drive from Jeju International Airport, Ocean Suites Jeju Hotel is a four-star hotel which offers a fitness centre, free WiFi access, and ocean view. Three hundred and fifty air conditioned rooms feature flat-screen TVs with cable channels, refrigerators and breathtaking view of the ocean. Blue Ocean Cafeteria offers breakfast and dinner buffets featuring Western cuisine and seafood. The Harbor Bar serves a variety of cocktails and popular wines, while the Sky Lounge, located on the top floor, offers a magnificent view and a relaxed atmosphere.



## TENTATIVE SCHEDULE

- February 1, 2018** Organized proposals
- March 1, 2018** Abstract submission  
(Extended to March 17)
- May 1, 2018** Full paper submission  
(Extended to May 14)
- June 1, 2018** Acceptance notification
- July 1, 2018** Final paper submission  
Early bird registration  
Hotel registration