

HWISE-2017

13-TH INTERNATIONAL WORKSHOP ON HETEROGENEOUS WIRELESS NETWORKS

TAMKANG UNIVERSITY, TAIPEI, TAIWAN, MARCH 27 - 29, 2017

The 31-st International Conference on Advanced Information Networking and Applications (AINA-2017)

[Home](#)

[Submission](#)

[Organizing
Committee](#)

Home

Heterogeneous Wireless Networks (HWISE) , supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing, communications, intelligence and actuations are emerging as a critically important disruptive computer class based on a new platform, networking structure and interface that enable novel, low cost, high volume applications such as nuclear, biological and chemical attack detection and protection, home automation, battlefield surveillance and environmental monitoring. Several of such applications have been difficult to realize because of problems involved with inputting data from sensors directly in to actor systems. To fulfill their large range of applications sensor and actor networks will collaborate with other wired and wireless systems including WLANs, Cellular network and grid systems. The research community is working to develop high performance computing solutions to problems arising from the complexities of these sensor and actor network systems. We encourage contributions describing innovative work on HWISE. The topics of interest include but are not limited to:

- Applications of HWISE: in all areas of human interests including biology, manufacturing, medical science, engineering, defence
- Scalable Architectures: Common Architectures vs. vertical integrations, interfaces among layers, which layer in common
- Communication protocols: protocols at all layers, crosslayer design, communication among heterogeneous technologies, resource constrain issues
- Security: solutions for heterogeneous environments, tradeoffs between security and performance
- Information processing: querying, data compression, association, aggregation
- QoS solutions: applications, technical, business and administrative issues
- Interoperability: among Sensor networks, WLANs, cellular, satellite and wired networks, mobility issues, integration sensor-actor
- Operating systems: programming tools, resource constrain issues.
- Simulations, experimental studies, and testbeds: novel type of nodes, scalability, radio communications with heterogeneous nodes, measurements metrics and loads, testing methodologies
- Management: planning, configuration, alarms and their correlation, measurements

For further information, please contact the workshop co-chairs.

Workshop Chairs

Arjan Durrresi, Indiana University Purdue University at Indianapolis, USA
Leonard Barolli, Fukuoka Institute of Technology, Japan

Web Administrator

Important Dates

- **Submission Deadline: October 1, 2016**
- Authors Notification: October 1, 2016
- Final Manuscript: December 20, 2016
- Author Registration: January 20, 2017
- Conference Dates: March 27 - 29, 2017