

**DECEMBER 3-4, 2018 | HO CHI MINH CITY, VIETNAM**

Website: <http://qshine.org>

Submission Link: <http://qshine.org/initial-submission>

**Endorsed by the European Alliance for Innovation**

**Organised by**

**Ho Chi Minh City University of Technology and Education, Vietnam**

**Duy Tan University, Vietnam**

## **CALL FOR PAPERS**

You are cordially invited to participate in and attend **The 14th EAI International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (Qshine 2018)** to be held at **Ho Chi Minh City University of Technology and Education, Ho Chi Minh City, Vietnam** on **December 3-4<sup>th</sup>, 2018**. The conference is to address, explore and exchange information on the state-of-the-art in all types of Computing, Telecommunications technologies and applications of Internet of things (IoT) for the 4<sup>th</sup> industrial revolution.

We are interested in visionary, experimental, systems-related and work in-progress papers on the current state of research in Computing, Telecommunications technologies and applications of IoT for the 4<sup>th</sup> industrial revolution and related issues. Papers should describe original, previously unpublished work, not currently under review by another conference, workshop, or journal.

### **Topics include (but are not limited to):**

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#### **Telecommunications Systems and Networks**

- Cooperative communications and Cognitive radio and dynamic spectrum access
- All aspects for 5G networks
- Wireless multimedia networks
- Software defined networks (SDN), wireless body area network and wireless healthcare
- Overlay and programmable networks Internet of Things (IoT) and smart cities services and support for smart cities
- Software defined smart objects connected vehicles green communications and energy

efficiency next generation networks infrastructures

- Security, cryptography and privacy network design
- Quality of service (QoS) provisioning: architectures, protocols, mechanisms
- Quality of experience (QoE): user-perceived quality, cost-sensitive experience
- Reliability and scalability: performance, adaptation, cognition, extensibility
- Cross-layer design, optimization and implementation: spectrum/energy efficiency

#### **Networks and applications**

- New architectures, protocols and applications for industrial networks, including control network, communication network, sensor network, body area network, social network, opportunistic network, and cloud-based network
- Social and Economic Perspectives: incentive, pricing, billing, governance
- Analysis of industrial networks, including network lifetime, scalability and stability, transmission reliability, quality of service, etc.
- New applications and Communication Technologies: IoT, cloud, smart grid, and SDN

### **Intelligent systems and applications**

- Computational intelligence in automation, including neural, fuzzy and evolutionary approaches, ant colonies optimization, swarm intelligence, machine learning, bioinformatics, expert systems, multi-agent systems, game and decision theories, etc.
- Industrial applications of intelligent systems
- Robustness: fault/disruption/disaster-tolerance, resilience, survivability

### **Information processing and data analysis**

- Audio/image/video processing
- Data mining, pattern recognition, estimation and identification
- Information fusion, compressive sensing, signal transforming and filtering
- Fault detection and diagnosis
- Optimization techniques
- Big data analysis and processing

### **Signal Processing**

- Decoding and encoding techniques
- Modulation, coding, and diversity techniques
- Signal detection and parameter estimation
- Signal, image and video processing, and visualization audio
- Acoustic signal, speech and language processing
- Sensor array, multichannel and communications signal processing
- Radar and sonar array signal processing
- Estimation theory and applications
- Bio-inspired modelling and signal processing
- Signal processing applications

### **Hardware and software design and development**

- Analogue/Digital system design and structures
- Design and analysis of embedded industrial systems, including real-time computing, operating systems, communications, etc.
- Modelling and analysis tools for industrial networks and intelligent systems
- Simulation and testbed of current industrial networks and intelligent systems

### **Security & Privacy**

- Incident response
- Encryption, authentication, availability assurance
- Hardware forensics
- Intrusion detection
- Network security and protocols

## Paper Submission Guidelines:

Submitted papers must represent original material that is not currently under review in any other conference or journal, and has not been previously published. Papers should be submitted through EAI 'Confy' system at Confy, and have to comply with the SPRINGER format Instructions and templates are available from Springer's LNICST homepage.

All accepted papers will be published by Springer and made available through SpringerLink Digital Library. Qshine proceedings are indexed in leading indexing services, including Ei Compendex, ISI Web of Science, Scopus, CrossRef, Google Scholar, DBLP, as well as EAI's own EU Digital Library (EUDL). At least one author of accepted papers is required to present the paper and to register at the full registration rate. If you have any questions regarding paper submissions or the program, please contact any of the Technical Program Chairs.

## Important Dates:

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- Submission of full papers: 3 July 2018
- Notification of acceptance: 3 September 2018
- Camera ready papers and registration: 3 November 2018
- Main Conference: 3-4 December 2018

**NOTE: High quality papers will be invited to be submitted to one of the following publications:**

- [ACM/Springer Mobile Networks and Applications \(MONET\)](#) (IF:3.259)
- [EAI Endorsed Transactions on Industrial Networks and Intelligent Systems](#)

# Conference Organising Committees

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