



The 2016 IEEE-RIVF International Conference  
On Computing and Communication Technologies

Hanoi, Vietnam, November 7-9, 2016

Started in 2003, RIVF has become a major scientific event for researchers in the field of Computing and Communication Technologies. In the past, the conference series were held at Institut Francophone International, Ha Noi (2003, 2004), Can Tho University (2005), Ho Chi Minh City University of Technology (2006), Ha Noi University of Science and Technology (2007), Ho Chi Minh City University of Science (2008), Da Nang University of Technology (2009), Ha Noi National University of Science (2010), Ho Chi Minh City University of Technology (2012), Ha Noi National University of Engineering and Technology (2013), and Can Tho University (2015). Since the 9th edition in 2012, RIVF has been held in every 18 months approximately, alternating between the northern half and the southern half of Vietnam. Historically, it was at RIVF 2007 the IEEE Vietnam Section was formed, and since then RIVF has become an IEEE conference. RIVF is covered in Thomson Reuters Conference Proceedings Citation Index. The RIVF 2016 is the 12th conference in this series. The conference is hosted by Thuyloi University and will be held from 07 to 09 November 2016 in Ha Noi, Vietnam. It continues to offer an opportunity for researchers and innovators to discuss problems, share results, identify emerging issues, and establish academic collaborations in various disciplines of computing and communications. The conference website is located at <http://rivf2016.tlu.edu.vn>.

#### Honorary Chairs

Doug Zuckerman IEEE, USA  
Nguyen Quang Kim TLU, Vietnam

#### General Chairs

Tu Bao Ho JAIST, Japan  
Vincenzo Piuri Milan University, Italy

#### Program Chairs

Tru Cao HCMUT, Vietnam  
Yo-Sung Ho, GIST, Korea

#### Organizing Chairs

Nguyen Thanh Tung TLU, Vietnam  
Nguyen Thi Minh Huyen VNU-HUS, Vietnam  
Ho Tuong Vinh VNU-IFI, Vietnam

#### Tutorial Chairs

Duong Tuan Anh HCMUT, Vietnam  
Duy Luong JVN Institute, Vietnam

#### Workshop Chairs

Huynh Thi Thanh Binh HUST, Vietnam  
Nguyen Ngoc Doanh TLU, Vietnam

#### Publication Chairs

Nguyen Thai Nghe CTU, Vietnam  
Le Duc Hau TLU, Vietnam

#### Finance Chair

Dang Thi Thu Hien TLU, Vietnam

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#### Conference Organizers

IEEE Vietnam Section  
Thuyloi University, Vietnam  
VNU Institut Francophone International, Vietnam

#### Technical co-sponsors (incomplete list)

IEEE Communications Society  
IEEE Computational Intelligence Society  
Japan Advanced Institute of Science and Technology

**Conference Topics:** The conference solicits submission of research papers in major areas of computing and communications, organized into the following four tracks. Relevant topics of each track include, but are not limited to:

- **Computational Intelligence and Big Data Analytics:** soft computing, knowledge discovery and data mining, machine learning, computational biology, agent-based systems, semantic web, information extraction and retrieval, text and web mining, health care and public services.

Track Chairs: Hung-Son Nguyen (Warsaw University) & Quoc-Bao Vo (Swinburne UT)

- **Communications and Networking:** Network architecture, network protocols and security, quantum networks and communications, parallel and distributed computing, grid and cloud computing, mobile and ubiquitous computing, big data systems, security & privacy, internet of things.

Track Chairs: Hsiao-Hwa Chen (National Cheng Kung Uni.) & Hong-Son Ngo (HUST)

- **Software Engineering and Information Systems:** Software development methods, software system modeling, open source software development, software process, software testing and verification, embedded systems, distributed data management, information integration, domain and metadata modeling, e-commerce and business integration solutions.

Track Chairs: Mizuhito Ogawa (JAIST) & Bich-Thuy Thi Dong (HCMUS)

- **Image, Language, and Speech Processing:** Language and speech processing, human-computer interface and interaction, multimedia, image processing, information visualization.

Track Chairs: Chi-Mai Luong (Inst. of IT, VAST) & Muriel Visani (Uni. of La Rochelle)

**Paper Submission:** Authors are invited to submit papers of up to 6 pages, written in English, in PDF format and in compliance with the IEEE standard ([http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html)). All papers must be original contributions and not previously published, nor currently under consideration, for publication elsewhere. Accepted papers will be made available in IEEE Xplore Digital Library. The program committee chairs are not allowed to submit papers to the conference for a fair review process. Papers should be submitted through the EasyChair conference submission system at <https://easychair.org/conferences/?conf=rivf2016>.

**Post-Conference Publication:** Authors of selected best papers will be invited to submit extended versions of their papers for publication in special issues of some prestigious international journals such as Fundamenta Informaticae, Journal of Ambient Intelligence and Humanized Computing, and International Journal of Distributed Systems and Technologies.

#### Important Dates:

- June 10, 2016 Paper submission deadline (strict deadline)
- August 8, 2016 Acceptance notification
- August 30, 2016 Camera-ready paper submission and author registration
- November 7, 2013 Tutorials and Workshops
- November 8-9, 2016 Conference