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Conference:
Mar. 05-09, 2007

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Important Dates
Paper submission deadline:  
Oct. 23, 2006
Notification of acceptance:  
Dec. 04, 2006
Camera-ready papers:  
Jan. 08, 2007
Tutorials:  
Mar. 05, 2007
Doctoral Symposium:  
Mar. 06, 2007
Conference:  
Mar. 07-09, 2007

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- The Institute of Electrical and Electronics Engineering, IEEE Region X
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Supported by:
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Introduction

The 5th International Conference on Research, Innovation and Vision for the Future (RIVF’07), hosted and supported by Hanoi University of Technology, Viet Nam, from March 05 to 09, 2007, is a major scientific event co-sponsored by the Institute of Electrical and Electronics Engineers (IEEE) Region 10, Vietnam Ministry of Science and Technology and Vietnam Ministry of Education and Training. Information and Communication Technologies are the highlights of RIVF’07.

As a matter of fact, Information Technology has enabled an expanding digital world radically linked not only to human societal progress but also our ways of thinking, perceiving, and behaving. In the same manner, new technologies for mobile communication, massively distributed collaboration, real-time information processing and sharing, etc will ultimately impact human interactions.

Advances in the multi-faceted fields of the rapidly moving world of information and communication sciences & technology need to be disseminated and discussed early. RIVF’07 attempts to provide an interactive, professional, and friendly forum for sharing results of research, and progress made towards future innovative applications of information and communication sciences & technologies.

Another objective of the RIVF series has been to encourage scientific research in Vietnam and in the Asia-Pacific Region therefore RIVF’07 will take place in the romantic city of Hanoi, capital of Vietnam, specifically on the campus of the historical Hanoi University of Technology (HUT). RIVF’07 will be organized into one-day sessions, plus a one-day doctoral symposium, and three days of oral communications and discussions.

Conference Topics

- **Integrated Information Systems: Semantic Concepts & Interoperability:**
  - Co-chairs: Ralf Detlef Kutsche - TU Berlin, Germany.
  - Semantic concepts in information management,
  - Semantic Web languages/concepts,
  - Metadata management and standards,
  - Design of distributed information systems,
  - Federated & mediator-base information systems,
  - Wrapping heterogeneous information sources,
  - Heterogeneous & autonomous system cooperation,
  - Application domains.

- **Decision Support, Data and Knowledge Management:**
  - Co-chairs: Michel Lamure - U. Lyon 1, France.
  - Bao Tu Ho - JAIST, Japan.
  - Data and text mining theories and applications,
  - Data/information retrieval,
  - Emergency response information systems,
  - Geographic & Location-based Technology,
  - Advanced DBMS.

- **Emerging Communication Technologies:**
  - Patrick Bellot - ENST, France.
  - Optical networks, Quantum communications,
  - Wireless, mobile and adhoc networks,
  - Network, Usability & Security.

- **Advanced & Cooperative Information Systems:**
  - Co-chairs: Alexandre d’Aspremont - Princeton U., USA.
  - Laurent El Ghaoui - UC Berkeley, USA.
  - Quantum information processing,
  - Distributed Information and sharing,
  - Artificial Intelligence based systems,
  - Agent-based computing, Behavior simulation,
  - Pervasive computing.

- **Applied Operational Research & Optimization:**
  - Peter Brucker - U. Osnabrueck, Germany.
  - Linear programming & integer programming,
  - Branch & bound, dynamic programming,
  - Constraint propagation, heuristics,
  - Applications in control, production and scheduling.

- **Visual Information, Perception and Interaction:**
  - Renaud Keriven - ENS & ENPC, France.
  - Data visualization,
  - Augmented Reality / Virtual Reality,
  - Signal and image processing based systems,
  - New forms of Human Computer Interfaces,
  - Advanced Geographic Information Systems.

- **Computational Linguistics, Natural Language Processing:**
  - Co-chairs: Lorne Bouchard - UQAM, Canada.
  - Nhan Thanh Ngo - NYU, USA.
  - Phonology, morpho-syntax, semantics & pragmatics,
  - Applications in interface technology, information retrieval, speech recognition and web semantics.
  - Computational grammar.

- **Computational Biology & Medical Informatics:**
  - Co-chairs: Toi Van Vo - Tufts University & Phuong Minh Tu.
  - Computational genomics, Biomedicine, structural bioinformatics,
  - Simulations and system dynamics.

Keynotes Speakers

- **Prof. Jean-Marc Steyaert.** Ecole Polytechnique, France.
- **Prof. Toru Ishida.** Kyoto University, Japan.
- **Prof. Harald Weinfurter.** LMU München, Germany.

Student & Doctoral Symposium

The goal of the Student and Doctoral Symposium is to provide a supportive yet questioning setting in which graduated students can present their work. The Symposium is an opportunity for students involved in the preparation of a Master or PhD thesis in any related topics of RIVF’07 to interactively discuss their research issues and ideas with senior researchers, receive constructive feedback and expose themselves as future IT researchers. Students will be able to discuss their goals, methods, and results at an early stage in their research as well as the difficulties, problems and questions that they encounter in the continuation of their work and can ask for comments from the audience. The Symposium aims to provide useful guidance for completion of the dissertation research and initiation of a research career.

This year, the mentors are Kevin Corker (SJSU, USA), Anders Ynnerman (Linkoping University, Sweden), George Donohue (George Mason University, USA), Vu Duong (Eurocontrol, France & HCMUT, Vietnam) and Bao Tu Ho (JAIST, Japan).

Submission Instructions

Submissions by researchers and innovators are solicited on a wide range of topics describing theoretical results and innovative applications including but not limited to the conference topics. Authors are invited to submit full papers up to 10 pages describing the results of their research, or of their innovative, practical applications relevant to the conference topics, and not have been published elsewhere. Papers must be written in English and shall be submitted on-line in PDF format using IEEE standard templates to the conference Web site. The program committee will review each paper for its originality, relevance, and clarity. Selected papers will be published in the conference proceedings referenced in IEEE Explore® and in international libraries.

Students interested in RIVF’07 Student Symposium should individually submit two-pages extended abstracts describing their research using the IEEE standard paper submission template. Selected doctoral symposium presenters have a poster on display during the conference and a four-pages short paper published in the Conference Addendum Contribution proceedings with ISBN.

More information can be found on [http://www.rivf.org](http://www.rivf.org).