ITNG 2017

14th International Conference on Information Technology- New Generations
April 10-12, 2017, Las Vegas, USA
www.itng.info
Proceedings to be published by Springer

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Anna Scaglione, USA
Hal Sudborough, USA
Christoph Thuemmler, UK

Important Dates
Track Proposal Deadline: Sept. 9, 2016
Submission Deadline: Nov. 25, 2016
Author Notification: Dec. 16, 2016
Advance Registration: Jan. 13, 2017
Camera Ready: Jan. 13, 2017

Keynote Speakers
The conference features two keynotes. The emphasis especially is on presentations which address global issues governing information technology as opposed to those related to detailed and specific technical contributions. If you wish to nominate someone as an ITNG keynote speaker, please contact the General Chair.

Exhibit Opportunities
The ITNG will have an Exhibition area for corporations or individuals who wish to display and promote their products, technology, or services. Efforts will be made to provide maximum exposure and advertising. Exhibit space is limited. For further information or to reserve a place, please contact the General Chair.

Theme
The International Conference on Information Technology - New Generations (ITNG) is an annual event focusing on state of the art technologies pertaining to digital information and communications. The applications of advanced information technology to such domains as astronomy, biology, education, geosciences, health care and security are among topics of relevance to ITNG. Visionary ideas, theoretical and experimental results, as well as prototypes, designs, and tools that help the information readily flow to the user are of special interest. The conference features keynote speakers, the best student award, the PhD student forum and workshops/exhibits from industry, government and academia. Topics are included but not limited to the following:

Methodologies & Tools
- Big Data
- Bioinformatics & Biocomputing
- Biometrics
- Cloud Computing
- Collective Intelligence and Crowdsourcing
- Cryptography
- Data Compression
- Data Mining & Warehousing
- Document Analysis
- Fuzzy Logic
- Image, Audio, Video Processing
- Information Assurance
- Information Retrieval
- Machine Learning
- Quantum Computing
- Parallel & Distributed Computing
- Pervasive and Ubiquitous Computing
- Reconfigurable Computing
- Remote Sensing
- Supercomputing
- Visual Modeling
- Wearable Computing
- Web Technology

Networking & Communication
- Ad-hoc Networks
- Enterprise Networks
- Gigabit Networking
- Internet of Things
- Multimedia Communication
- Network Architectures & Protocols
- Neural Networks
- Social Networks
- Sensor Networks
- Wireless Communication

Software
- Algorithms
- Generative Programming
- Languages & Compilers
- Markup Languages
- Security & Cybersecurity
- Software Testing
- Software Metrics
- Software Dependability
- Software Development Approach
- Software Technologies
- Teaching and Learning Technologies

Systems & Architectures
- Cooperative Information Systems
- Distributed & Grid Systems
- e-Health Care
- e-Learning, e-Commerce, e-Gaming
- Energy and Power-efficient Systems
- Entertainment Engineering
- Error Control Codes
- Graphics Hardware
- Green Technologies
- Hardware-Software Co-design
- Operating Systems
- Security Systems

Hardware
- Application-specific Processors
- Bio Chips & DSP Chips
- Computer Arithmetic
- Embedded Systems, NoC
- Evolvable Hardware
- Multimedia Processors, Graphics
- Micro Electromechanical Systems
- Processing-in-Memory Technology
- PCB technology & Interconnect Design
- System on chip-Ad-hoc

Track Proposal Submission
Please submit your proposal for organizing a special track to the conference chair including the scope of the track, a plan for paper solicitation and a short biography.

Paper Submission
Authors should send a 6-page IEEE 2-column version of their original and unpublished work including 5 keywords in the to their respective track/session. Papers that do not fit the scope of any of the existing tracks should be submitted to General Track. Electronic submission in the PDF format or Word document is strongly encouraged. Per ITNG policy, except for invited papers, all papers will be reviewed by at least two independent reviewers. Accepted papers will be included in the conference proceedings published by **Springer**. Selected papers presented in the conference will be considered for publication in a special issue of an international journal.

Best Student Paper Award
Papers submitted and presented by students will be considered for the award. To be eligible, the student must be the sole author, or the first author and primary contributor. A cover letter or email to the General Chair must identify the paper as a candidate for this competition at the time of the submission. (The winner of the award will present the paper in a plenary session at the conference.)

Best Poster Award
All poster papers presented at the conference will be considered for this award.

Best Service Award
This award is presented to the individual who has contributed the most to the quality and growth of the conference.

Social Activities
These activities include preconference reception (Sunday evening, April 9, 2017) and conference dinner reception (Tuesday evening, April 11, 2017).

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Tracks and Symposia Organized So Far:

- **8th Symposium on Networking and Wireless Communications**
  Yenumula Reddy, Grambling State University, USA

- **8th Symposium on Cybersecurity**
  Ping Wang, Robert Morris University, USA
  Aftab Ahmad, City University of New York John Jay College of Criminal Justice, USA
  Kashif Saleem, CoEIA, King Saud University, Saudi Arabia
  Moses Garuba, Howard University, USA

- **Information Systems and Internet Technology,**
  Narayan Debnath, Winona State University, USA

- **Entertainment Technology and Education (ETE)**
  Si Jung Kim, University of Nevada, Las Vegas, USA
  Woontack Woo, Graduate School of Culture Technology, Korea
  Mark Billinghurst, The HIT Lab, University of Canterbury

- **Special Track Health 4.0**
  Christoph Thuemmler, Edinburgh Napier University, UK
  Kohei Arai, Saga University, Japan
  Thomas Jell, Siemens, Germany

- **Agile Software Testing and Development,**
  Luiz Alberto Vieira Dias, Adilson Marques da Cunha
  Aeronautics Institute of Technology (ITA), Sao Jose dos Campos, Brazil

- **Data Mining,**
  Ray Hasehmi, Armstrong State University, USA
  Azita Bahrami, IT Consultation, USA

- **Software Engineering,**
  Glauco Carneiro, University of Salvador (UNIFACS), Brazil
  Michel Soares, Federal University of Sergipe (UFS), Brazil

- **High Performance Computing Architectures,**
  Fangyan Shen, New York City College of Technology, USA
  Mei Yang, University of Nevada, Las Vegas, USA

- **Model-driven Engineering (MDE): Theory and Practice**
  Alessio Bucaioni , Federico Ciccozzi , Saad Mubeen
  Mälardalen University, Sweden

- **Computer Vision, HCI and Image Processing/Analysis,**
  Kohei Arai, Saga University, Japan

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