



ITNG 2008

5th International Conference on Information Technology- New Generations

April 7-9, 2008, Las Vegas, Nevada, USA

www.itng.info

Proceedings to be published by the IEEE Computer Society.

Submission Deadline: October 26, 2007

General Chair

Shahram Latifi, Professor
ECE Dept, UNLV
Email: latifi@itng.info

Program Committee

Jamal Bentahar, Canada
Ron Coleman, USA
Sergiu Dascalu, USA
Mohammad Eyadat, USA
Ali Ghobadi Tapeh, Iran
Sheikh Iqbal Ahamed, USA
Dimitrios Katsaros, Greece
Dilip Khairnar, India
Jay Kothari, USA
Mary Ann Malloy, USA
Boleslaw Mikolajczak, USA
Luiza Mourelle, Brazil
Naida Nedjah, Brazil
Manoranjan Paul, Australia
Nazaraf Shah, U.K.
Elhadi Shakshuki, Canada
Allen Zhang, USA

Keynote Speakers

The conference features three keynotes. The emphasis specially 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.

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 communication. The applications of advanced information technology to such domains as astronomy, biology, education, geosciences, and health care 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

- Data Mining & Warehousing
- Information Retrieval
- Document Analysis
- Web Technology
- Entertainment Engineering
- Quantum Computing
- Reconfigurable Computing
- Pervasive and Ubiquitous Computing
- Parallel & Distributed Computing
- Supercomputing
- Bioinformatics & Biocomputing
- Biometrics
- Wearable Computing
- Fuzzy Logic
- Data Compression
- Error Control Codes
- Cryptography
- Image, Audio, Video Processing
- Remote Sensing
- Information Assurance

Networking & Communication

- Sensor Networks
- Ad-hoc Networks
- Wireless Communication
- Enterprise Networks
- Gigabit Networking
- Multimedia Communication
- Network Architectures & Protocols
- Neural Networks
- Interconnection Networks

Software

- Markup Languages
- Language & Compilers
- Operating Systems
- Generative Programming
- Security Protocols, Virus & Worms
- Software Testing
- Software Metrics
- Software Dependability
- Genetic Algorithms

Systems & Architectures

- Cooperative Information Systems
- Distributed & Grid Systems
- Web Technology
- Security Systems
- Graphics Hardware
- e-Health Care
- e-Learning, e-Commerce, e-Gaming
- Energy and Power-efficient Systems
- Hardware-Software Codesign

Hardware

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

Special Sessions/Tracks/Workshops/MiniConferences

Proposals to organize a forum (special sessions/Tracks/Workshops/miniconferences) are solicited. If you are interested to organize a forum, please email the title and a short description of the proposed forum along with a short auto biography including your past experience to the General Chair by September 7, 2007. The names of forum organizers will appear on the cover page of the conference proceedings as associate editors. In consultation with the forum organizer, a selected set of papers may be considered for publication in an international journal related to the forum topic. Please refer to ITNG website for sessions organized so far.

Submission Instructions

Authors should send a 6-page version of their original and unpublished work including 5 keywords in the **IEEE format** to their respective track/session using the on-line submission (<http://www.softconf.com/start/ITNG2008/submit.html>). 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 the **IEEE Computer Society**. 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.

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.

Social Activities

These activities include preconference reception (Sunday Evening, April 6, 2008) and conference dinner reception (Tuesday Evening, April 8, 2008).

