

The 13th International Conference & Expo on Emerging Technologies for a Smarter World (CEWIT2017)

November 7 & 8, 2017, The Center of Excellence in Wireless and Information Technology (CEWIT) at Stony Brook University, Stony Brook, New York

Scope of the Conference

We cordially invite you to submit your contribution to the 13th International Conference & Expo on Emerging Technologies for a Smarter World (CEWIT2017). Originally known as the International Conference on Cutting-Edge Wireless & Information Technologies, this conference is organized by the New York State Center of Excellence in Wireless and Information Technology (CEWIT) located at Stony Brook University in New York.

CEWIT2017 is the premier international forum on the applications of emerging technologies in infrastructure, healthcare, and energy, which are three of the most critical components of a smarter global environment. Specific topics of interest include, but are not limited to, the following:

Area 1 – The Internet of Things (IoT)

- Wireless Sensor Networks
- Intelligent Sensors/Devices
- Collaborative Signal/Image Processing
- IoT Applications and Services
- Device and Circuit Design for IoT
- Architecture and Systems Design for IoT
- Interface and Control Systems for IoT
- IoT Data Analytics
- Mobile IoT
- IoT Testbed and Standards

Area 3 – Health Technologies and Medical Devices

- Advanced Medical Imaging
- Computer-Aided Diagnostics
- Wireless Telemedicine
- Noninvasive Health Monitoring
- Teleradiology
- Personal Medical Devices
- Implantable Sensors
- Medication Adherence
- Asset Tracking and Monitoring
- Mobile Diagnostics
- Implantable Prosthetics

Area 5 – Smart Urban Systems

- Securing the Transportation Infrastructure
- Transportation Infrastructure Sensing
- Traffic Simulation & Visualization
- Interaction between Vehicles and the Environment
- Integrated Management Technology for Ubiquitous City
- Sensor Network for Water and Electric Utilities
- Urban Pollution

Area 7 – Tech and Society; Technological Applications

- Innovative Cross-disciplinary Applications
- Information Dissemination
- Worldwide Economic Impact of IT
- IT in Education; Workforce Development; Social Media
- Global Impact

Area 2 – Cybersecurity

- Mobile Security
- Internet of Things (IoT) Security
- Defenses against Zero-day and Targeted Attacks
- Defenses against Insider Threats
- Online Privacy and Anonymity
- Vulnerability Analysis and Software Protections
- Digital Forensics
- Privacy Enhancing Technologies
- Anonymity Domain Abuse and Trademark Dilution

Area 4 – Big Data Analytics and Visualization

- Model Driven Data Analysis
- Data Mining in Business Intelligence
- Text Mining & Sentiment Analysis
- Visual Analytics
- Biomedical and Healthcare Informatics
- Distributed Robotics and Real-Time Data Analytics
- Virtual and Augmented Reality
- Immersive Interface
- Tiled Displays
- Human Computer Interaction
- GPU Clustering

Area 6 – Smart Energy

- Distributed Sensor Networks for Smart Grid
- Advanced Metering Infrastructure
- Energy Efficient Computing
- Advanced Sensor and RFID Technologies
- Smart Grid Interoperability
- Simulation and Modeling



Center of Excellence

WIRELESS AND INFORMATION TECHNOLOGY

AT STONY BROOK UNIVERSITY

Submission Guidelines

CEWIT2017 is primarily interested in serving as a venue for the discussion of technical contributions highlighting end-to-end technical solutions, applications and systems, even if available only in prototype form. Therefore, we strongly encourage authors to submit abstracts describing their contributions in an application-oriented context.

Abstracts will be evaluated by conference program committee members and external reviewers. Submissions will be judged on validity, originality, technical strength, practical significance, quality of presentation, and relevance to the conference topics. We encourage submissions from a variety of fields where in-depth application-centric ideas addressing important challenges related to the conference theme are discussed. Authors of accepted oral presentations may submit a full paper to be included in the conference proceedings.

In addition to the oral presentations, we encourage participation in the poster session to present on-going research and innovative application projects. A judging panel of industry and academic experts will evaluate the posters and determine the winners of Best Poster and Best Student Poster Awards.

Please submit your abstract electronically at www.cewit.org/conference2017. Submission guidelines and other information will be provided on the conference website.

Important Dates

Abstract Submission Deadline: **August 1, 2017**

Notification of Acceptance: **August 15, 2017**

Camera-Ready Paper & Presentation Materials: **October 1, 2017**

Contact Information

For more information about CEWIT2017, please visit www.cewit.org or contact the conference general chair Dr. Shmuel Einav or the program committee chair Dr. Rong Zhao at +1 631-216-7000 or email conference@cewit.org.

Venue

**The Center of Excellence in Wireless and Information Technology (CEWIT) at Stony Brook University
1500 Stony Brook Road, Stony Brook, New York, 11794, USA**

The 100,000 square-foot, state-of-the-art Center of Excellence in Wireless and Information Technology (CEWIT) facility is the anchoring building in Stony Brook University's 246-acre Research and Development Park. An extension of Stony Brook University's world-renowned research arm, the Center provides connection to world-class students, faculty, and researchers with over 40 diverse research labs, integrates industry and campus technologies, and supports and houses member technology incubator and START-UP NY-designated companies with 7,000 s.f. of incubator space.