



IEEE LISAT 2012

**Long Island Systems,
Applications, and
Technology Conference**

Friday, May 4, 2012
7:30 AM sign-in; 8 AM start

**Farmingdale
State College**
State University of New York
Rt. 110, Farmingdale, NY

THREE ALL-DAY PARALLEL TECHNICAL TRACKS

Preliminary Program. See LISAT website for latest updates: www.ieee.li/lisat

Systems

- Trellis Demodulation of Two-Level Reed-Solomon-Modulated FH-CDMA Wireless Communication Systems
- Smart Glove
- Local IP Flow Mobility to Enhance Femto-cell Benefits for Open Metro Deployment
- Next Generation Emergency Management Common Operating Picture Software/Systems (COPSS)
- The Impact of Major Catastrophes on the Global Supply Chain
- Direct Maximum Likelihood Localization for FBMC Modulated Signals
- Engineering of Fiber Optics Infrastructure
- Multisensor Fusion of Visual and Thermal Images for Human Face Identification using Different SVM Kernels
- Practical Implementation of MIMO-OFDM Systems on WARP for Comparison and Equivalency of MIMO Precoders
- Wireless Multimedia Sensor Networks: Unveiled

Applications

- Improving Efficiency and Reliability of Building Systems Using Machine Learning and Automated Online Evaluation
- A Gratis Method for Video Capture on Linux - Based Operating Systems
- Information Security in Electronic Healthcare Systems: A Roadmap to Successful Implementation
- A Self-adaptive Data Aggregation Algorithm for Fault Tolerant Wireless Sensor Networks
- Automatic Segmentation Algorithm for Brain MRA Images
- Control of an Autonomous Underwater Vehicle
- Connecting the Classroom & Community via a Real-World IT Service-Learning Project: Impacting Students and Making a Difference in the Senior Community
- Implementation of Fault Tolerance Algorithm to Restore Affected Nodes in Scheduling Clusters
- XSSmon: A Perl Based IDS for the Detection of Potential XSS Attacks
- Quantifying the Emissions Impact of Dynamic Electricity Tariffs in New York City
- Applied Safety Science and Engineering Techniques and the ASSET Safety Management Process
- A biometrics-based secure architecture for mobile computing
- Wireless Multimedia Sensor Networks Progress and Challenges: A Survey
- An LEGO based undergraduate control systems laboratory
- Using Assistive Technologies to improving the Lives of Older Individuals and People with Disabilities
- MIMO/OFDM Convex Optimization Applications

Technology

- Color Image Encryption Using Multiple Reference Joint Transform Correlation
- Engineered Nanoparticles for Targeted Drug Delivery
- Smart Textiles Based Wireless ECG
- Backplane Electronics for Large-Area OLEDs
- Nanostructures for Superhydrophobic Coatings
- Cadmium Zinc Telluride Crystals for X-ray and Gamma-ray Detectors
- A Web Server Design Using Search Engine Optimization Techniques for Web Intelligence for Small Organizations
- CLICHÉ Network on Chip: A Novel Multichannel Acquisition Module for a High Throughput Architecture
- Low Cost Laser Diode Temperature Controller
- Design of Hairpin Line Filter
- Control System Design from Inverse Closed Loop Specification
- Performance of Aluminum-Doped Zinc Oxide under Bending Fatigue Conditions
- Dynamic Matrix Control for Optimal Operation of a Debutanizer Distillation Column

INDEPENDENT SIX-HOUR CEU/PDH TRACK

“Power/Energy/Industrials”

0.2 CEU (2 PDH) credits available for each of 3 topics in this track. Pick and choose the topics of your interest. See the LISAT website for more details: www.ieee.li/lisat

EXHIBITS HALL

See exhibits from local technology companies, universities, robotics-competition winners, and professional societies

POSTER SESSION

Authors will be available for one-on-one discussions about their research topics.

PRODUCT APPLICATIONS TRACK

Four lectures on practical applications of tools and equipment. Go to www.ieee.li/lisat for details

**REGISTRATION AND OTHER INFO AT LISAT WEBSITE:
www.ieee.li/lisat**