



IEEE LISAT 2010

Long Island Systems,
Applications, and
Technology Conference

Friday, May 7, 2010
7:30 AM sign-in; 8 AM start

Farmingdale
State College
Rt. 110, Farmingdale, NY

THREE ALL-DAY PARALLEL TECHNICAL TRACKS
CEU credits available for select topics in these tracks.

Systems

System Processing: North Atlantic Right Whale Acoustic Signal Processing • Mapping Geo-Pathogenic Zones and Required Instrumentation
Power Systems: Turbines Can Suppress Loop Current to Reduce Gulf of Mexico Hurricane Threat • High Performance Development as Distributed Generation
Renewable and Sustainable Energy Replacement Sources
Wireless Systems: Systems Architecture Challenges in the M2M Home Network
Building Mobile Apps via Compound Wireless Services • Network Centric Signal Sensing for Automatic Modulation Classification
Signal Processing Applications: Implementation and Performance Testing of the SQUASH RFID Authentication Protocol • Integration of Compressive Sensing into First Principle Electro-magnetic Design, Modeling and Simulation • Effects of the Lunar Environment on Space Vehicle Surfaces

Applications

Analysis: Statistical Stenganalysis of Images Using Open Source Software • The Impact of Microsoft's Windows 7 on Computer Forensics Examinations • Color Pattern Recognition Using Multiple Phase-Shifted Reference Joint Transform Correlation
Computer Security: Error Tolerance and Privacy Enhancement in Matching Fingerprint Templates • Methodology to Assist Positions in the Adoption of Electronic Health Record Software • Automated Extraction of Health Resource URLs from Biomedical Abstracts
Systems Applications: An Architecture for Applying Social Networking to Business • The "Account Book" Mobile Application for Informal Economies • Information Overload
Technology: Mining the Web for C\C++ Code Using Regular Expression Based Pattern Matching • Experiments of Herding Attack on Iterative Hash Functions • HPC Experiments on a Simple Random Permutation

Technology

Materials: Synthesis of Bismouth Ferrites Nanocrystal • Copper, Fiber-optic and Carbon Nanotube Technologies for Next • Nanocrystal Based Planar Photonic Devices • Can ZnO Become a ZnO Technology? • Photoluminescence Modification in Self-Assembled Fluorescent 3D Photonic Crystals • Color Pattern Recognition Using Multiple Phase-Shifted Reference Joint Transform Correlation
Analysis: FPGA Based Wide Range Optical Sensor for Vibration Detection of Compressor Blades in High Speed Turbine • Circuit Design for Brain Stimulation and Transmitter Sensing • Conformable Patch Antenna Design for Remote Health Monitoring • RFID Design Using EM Analysis • Remotely Interrogating and Powering a Battlefield Sensor and Spin Torque Nano-Oscillator for the Army • Comparing the Efficiency of Silicon Based Solar Cells with Dye Sensitized Solar Cell

INDEPENDENT ALL-DAY CEU TRACK:

0.6 CEU (6 PDH) CLASS: "ELECTRIC UTILITY BASIC DISTRIBUTION ENGINEERING"
CEU credits available for all topics in this track. Pick and choose the topics of your interest.

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.

REGISTRATION AND OTHER INFO:

www.ieee.li

LISAT web site:

www.ieee.li/lisat