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2013 TCIPG INDUSTRY WORKSHOP POSTER SESSION

iHotel and Conference Center

1900 South First Street, Champaign, Illinois

November 6-7, 2013

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Posters are organized by research cluster and listed alphabetically by poster title. Click on the links below to view 8.5" x 11" PDFs of the posters.

Fact Sheets for these activities are available by following the specific research activity link from the [Reserach Page](#). A complete [Fact Sheet Book](#) from the poster session is also available.

- **Trustworthy Technologies for Wide-Area Monitoring and Control**

- [Cryptographic Scalability in the Smart Grid](#)
- Functional Security Enhancements for Existing SCADA Systems
[Intrusion Detection Based on Verification of Hybrid Automata Models](#)
- GridStat Middleware Communication Framework: Application Requirements
[Cyber-Power System Analysis Using a Real-Time Test Bed](#)
- GridStat Middleware Communication Framework: Management Security and Trust
[Flexible Data Authentication Evaluated for the Smart Grid](#)
[Resilience of State Estimation using Hybrid SCADA and PMU Data](#)
- GridStat Middleware Communication Framework: Systematic Adaptation
[Rate-Based Failure Detection for Mission-Critical Data Delivery](#)
- PMU Enhanced Power System Operations
- Real-time Streaming Data Processing Engine for Embedded Systems
- State-Aware Decentralized Database Systems for Smart Grid
[Advances in Decentralized State Estimation for Power Systems](#)
- Trustworthy Time-Synchronous Measurement Systems
[Pulse Coupled Oscillators Network Time and Access Protocol](#)

- **Trustworthy Technologies for Local Area Management, Monitoring, and Control**

- Development of the Information Layer for the V2G Framework Implementation
[Funding the Transportation Infrastructure in a V2G Environment](#)
- Password Changing Protocol
[SCAPACH: Scalable Password-Changing Protocol](#)
[Secure Data Collection in Smart Grid](#)
- Smart-Grid-Enabled Distributed Voltage Support
- Trustworthy Framework for Mobile Smart Meters

- **Responding To and Managing Cyber Events**

- [A Game-Theoretic Intrusion Response and Recovery Engine](#)
- [Assessment and Forensics for Large-Scale Smart Grid Networks](#)
- [Detection/Interdiction of Malware Carried by Application-Layer AMI Protocols](#)
- [Intrusion Detection for Smart Grid Components by Leveraging of Real-Time Properties](#)
- Specification-based IDS for Smart Meters
[Amilyzer: IDS Sensor for AMI](#)
- Specification-based IDS for the DNP3 Protocol

- **Trust Assessment**

- 802.15.4/ZigBee Security Tools
[Active Fingerprinting of IEEE 802.15.4/ZigBee Devices](#)
- [Quantifying the Impacts on Reliability of Coupling between Power System Cyber and Physical Components](#)
- Security and Robustness Evaluation and Enhancement of Power System Applications
[Malicious Data Detection in State Estimation Leveraging System Losses & Estimation of Perturbed Parameters](#)
[Trustworthy Cloud Computing for Power](#)
- Synchrophasor Data Quality
[Open-Box Phasor Measurement Unit \(PMU\)](#)
[Synchrophasor Data Quality on American Transmission Company's \(ATC\) Transmission System](#)
[NISTR 7628 Cyber Security Visualization](#)
- [Tamper Event Detection Using Distributed SCADA Hardware](#)
- [Testbed-Driven Assessment: Experimental Validation of System Security and Reliability](#)
- Trustworthiness Enhancement Tools for SCADA Software and Platforms
[CrossingGuard: Protectiong Perimeter-Crossing Buses](#)
[Trusted Software Stack for Control Systems](#)
- [Understanding and Mitigating the Impacts of GPS/GNSS Vulnerabilities](#)

- **Cross-Cutting Efforts**

- [Education and Engagement](#)
- Testbed Initiatives
[TCIPG Testbed Overview](#)
[Training the Next Generation: Hands-on Exploration of Cyber and Power Relationships](#)

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