Strategic Holistic Intrusion Defense in Power Systems
2nd Annual Student Workshop, May 13-14, 2024

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E. Rogers (UIUC), M. Ismail (Tennessee Tech)

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Day 1 (1107, 1108); Day 2 (Upstairs in RESLab: Room 3339 and 3350)
Center for Infrastructure Renewal (CIR), Texas A&M University System
1041 RELLIS Parkway, Bryan TX  77807

May 13, 2023 (Day 1) Normal Cyber-Physical Power System Operations

8:30 - 9:00 Arrival and check-in; Light Continental Breakfast Provided
9:00 - 9:30 Welcome & Overview (Kate Davis, Muhammad Ismail)
9:30 - 10:20 The Electric Grid 101 (Kate Davis)
10:30 - 12:00 Power grid as a CPS: Introducing cyber-physical threats and risk (Kate Davis)
       RESLab Tour & Student Hands-on Lab in PowerWorld (Eric Keller)
12:00 - 2:00 Lunch
       Data fusion, secure data exchange, and cyber-physical state estimation (Akram)
2:00 - 3:30 Networks 101 (Ana Goulart)
3:30 - 5:00 Security 101 (John Romero)
5:00 - 5:30 Break
5:30 - 7:30 Reception and Light Dinner (on site)

May 14, 2023 (Day 2) Abnormal Operations: Understanding Unexpected Events

8:30 - 9:00 Arrival and check-in; Light Continental Breakfast Provided
9:00 - 9:30 CYPRES & RESLab Testbed Tools & Techniques (Leen, Mary Sue, Shining, Akram)
9:30 - 10:20 Securing the Box and the Network: Cyber-physical Nuances (Justin Lieden)
10:30 - 12:00 ML/AI for Anomaly Detection and Defense (Muhammad Ismail)
12:00 - 1:00 Lunch
1:00 - 2:00 CPS SHIELD Living-Learning Community: Real World Power System Operations and
       Understanding Unexpected Events (Daniel Marr, LCRA)
2:00 - 3:00 CPS SHIELD Living-Learning Community: Real World Cybersecurity Incident Response in
       Critical Operational Technology Environments (Ben Stirling, Claroty)
3:00 - 4:00 Discussion on intrusion response, bridging classroom to practice, next steps (Each
       participant has a chance to talk) (Chair: Edmond Rogers, UIUC)
4:00 Adjourn
Logistics

The event will be held at the Texas A&M Center for Infrastructure Renewal (CIR). CIR is on the Texas A&M RELLIS campus. For parking at CIR, please see the next page. If you are staying at the Hampton Inn College Station at 320 Texas Avenue S., College Station, TX 77840, Ground Shuttle will transport you to CIR.

On May 13
* Pick-up: 8 am from Hampton Inn College Station - Drop-off: by 8:30am at CIR
* Pick-up: 6:00 pm from CIR - Drop-off: 6:30pm at Hampton Inn College Station

On May 14
* Pick-up: 8 am from Hampton Inn College Station - Drop-off: by 8:30am at CIR
* Pick-up: 4:30 pm from CIR - Drop-off: 5:00pm at Hampton Inn College Station

For any issues associated with the event contact either Kate Davis (katedavis@tamu.edu) or Kelly Nickinson (kelly.ford@tamu.edu, cell: 281-380-9137).

Additional thanks: Andrea Kishne, Jen Cutler, Drew Hamilton, Monique Glover, Leen Al Hamoud, Shining Sun, Akram Haque, Eric Keller, Mary Sue Bitar, Namrata Barpanda, Vinicius Bobato, Tom Overbye, Erchin Serpedin, our students

You will be able to access course materials using your email address, at the following Google Drive folder: https://drive.google.com/drive/folders/19Ho7W810A3UpRysTCgy1jHexzKbT6q3Z?usp=drive_link

Directions and Parking

- CIR building is marked with #20 on the RELLIS campus map.
- The map below shows the layout of the parking lot at CIR. **Unless you are otherwise instructed by Pamela Mize,** you may park in any of the “other parking” spaces within the purple boxes.

**PLEASE NOTE:**

- If you have a valid Texas A&M University parking permit (for any lot), you may park at CIR without needing to do anything else.
- **For Guests without Texas A&M University parking permits,** parking is available with no fee charged, just, please follow instructions shown below:
  - To ensure you aren’t ticketed by campus transportation, please send the following information to Pamela Mize (cc’d) ASAP at pamela.mize1@tamu.edu *(you should have received an email from Kelly)*:
    - Your first and last name
    - Your cell phone number/contact information
    - A picture of your vehicle’s license plate
    - Make/model of your vehicle
    - The dates you will need parking (whether one or both days of the workshop)
Please be aware that Transportation at RELLIS has been known to ticket people very quickly, so it at all possible, please do not wait until you arrive at CIR to give Pamela this information.