



A U.S. National Science Foundation
Industry/University Cooperative Research Center

**NSF Cloud and Autonomic Computing Summit and Industry Advisory Board Meeting
October 28, 2020 – Online Event**

(Advance Registration Required, please register at: <https://tinyurl.com/cac-2020-registration>
AFTER you register, please join the Zoom conference at: <https://tinyurl.com/cac-fall-2020>

October 28, 2020 (all times are in CDT)

10:00-10:15	Online Networking
10:15-10:40	CAC Center Directors Report , Dr. Alan Sill (Texas Tech University) and Dr. Salim Hariri (University of Arizona)
10:40-10:50	LIFE (Level of Interest and Feedback Evaluation) System Review , Dr. Drew Rivers, NSF Designated Evaluator
10:50-12:05	<p>Continuing Project Updates and Reports (10-min presentation, 5-min Q&A and completion of LIFE forms) <i>Faculty, students, and researchers will report progress of projects that have been funded by CAC. Industry members will evaluate the progress and provide feedback to each project.</i></p> <p>2020-TTU-1: Data Center Control for Renewable Energy Applications (Alan Sill) 2020-UA-1: SeVA: Senior Virtual Assistant (Chongke Wu) 2020-TTU-2: Integrated Visualizing, Monitoring, and Managing HPC Systems (Tommy Dang, Yong Chen, Alan Sill, Ngan Nguyen, Jie Li, Ghazanfar Ali) 2020-TTU-3: xBGAS (Extended Base Global Address Space) Architecture Optimizations and Filesystem (Yong Chen, John Leidel, Xi Wang, Brody Williams) 2020-UA-2: Federated Cyber Security Testbed as a Service (Pratik Satam)</p>
	Lunch Break
13:00-13:30	<p>New Project Proposal (10-min presentation, 5-min Q&A and completion of LIFE forms)</p> <p>2021-TTU-1: Understanding and Controlling Power Consumption of GPUs towards Energy Efficient HPC Systems (Ghazanfar Ali, Yong Chen) 2021-UA-1: AI-Driven Crises Management -Modeling, Analysis, and Prediction (Sicong Shao, Salim Hariri)</p>
13:30-13:45	<p>Updates from Affiliate Sites University of North Texas - Ravi Vadapalli Texas State University - Ziliang Zong University of Sonora (International Site) - Jesus Pacheco</p>
13:45-14:35	Poster Session and Feedback
14:35-15:00	IAB Board Members and Prospective Members Feedback and Wrap-up





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Project Summaries (Google drive folder)

<https://tinyurl.com/CAC-Projects>

Poster Presentation Recordings (Google drive folder)

<https://tinyurl.com/CAC-Posters>

List of Posters:

1. *xMonSTer: an Extended Out-of-the-Box Monitoring Tool for High Performance Computing Systems*, by Jie Li.
2. Author Identification for Malicious Threat Detection in Social Media by Sicong Shao
3. xBGAS: A RISC-V ISA Extension for High Performance Computing, by Xi Wang.
4. Resilient DDDAS-based Cloud Services (rDaaS) for Cyber Battle Management Systems by Likai Yao
5. Full Visualization of CNC Machine Parameters with IoT Techniques by Cristian Nunez
6. The Extended Base Global Address Space Filesystem (xBGASFS) for High-Performance Computing, by Brody Williams.
7. Distributed Shared Memory System Design for Large Scale HPC Systems, by Nathan Stoddard
8. Seva: Senior Virtual Assistant by Chongke Wu
9. Securing Industrial Control Systems from Cyber Attacks by Clarisa Grijalva
10. Anomaly Behavior Analysis based Intrusion Detection system for Controller Area Network Bus (CAN-BUS) for vehicles by Shalaka Satam
11. Post processing scheme Spatio-Temporal processing scheme for Vehicle Identification by Xin Gao

Polling for best poster presentation (Google form)

<https://tinyurl.com/CAC-Best-Poster>

