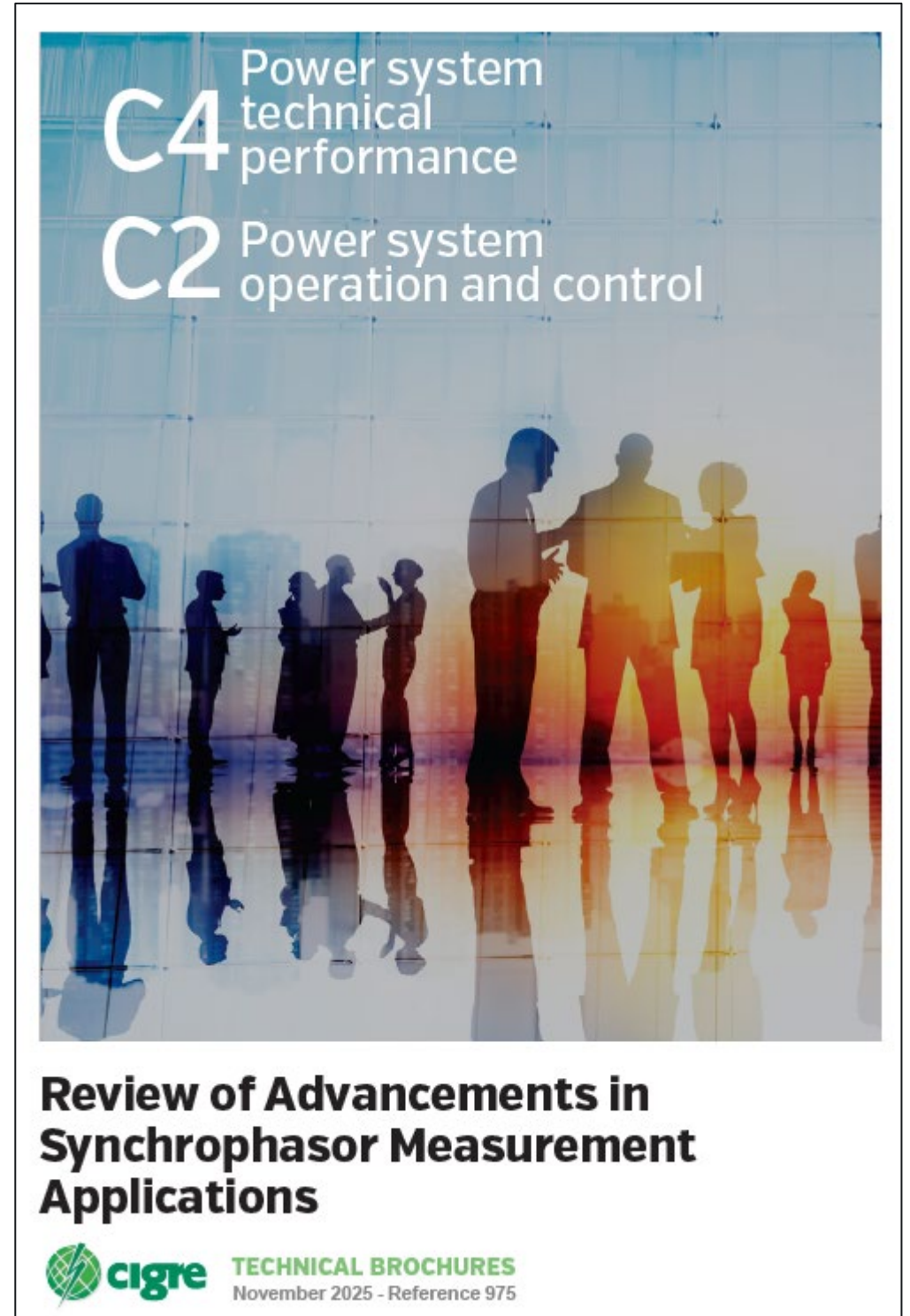
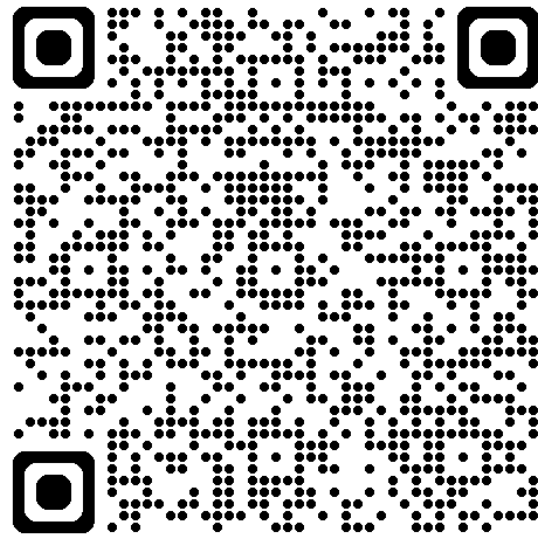




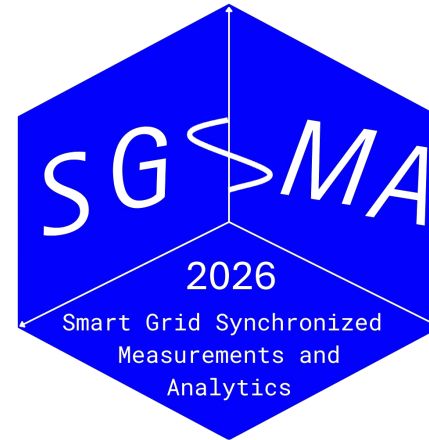
Liaison Update: CIGRE JWG C4/C2.62

Technical Brochure Published “Review of Advancements in Synchrophasor Measurement Applications”



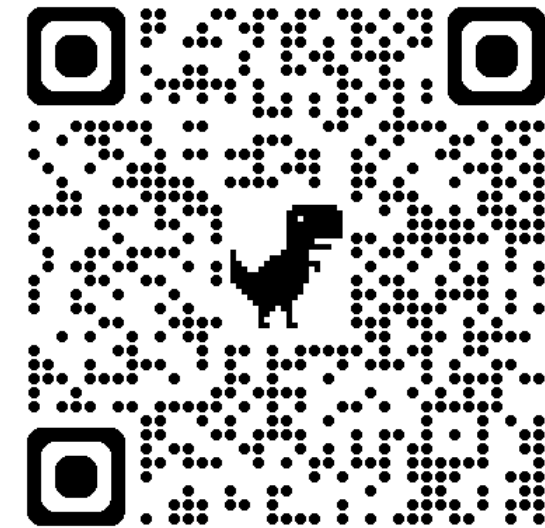


Liaison Update: IEEE/CIGRE SGSMA 2026, Santiago de Chile – June 1st - 4th (Register Now!)



- Welcome remarks by the IEEE PES & CIGRE Presidents
- Keynote by Chile System Operator
- Two hands-on tutorials & two workshops
- PhD Dissertation Competition (3 finalists)
- Students' Travel Grants
- Nine panel sessions by Experts & Academics
- Ten sessions of 44 peer-reviewed papers
- Best Paper Competition

Registration open:



<https://sgsma2026.cl/register-2026>



Liaison Update: IEEE PES Task Force on Forced Oscillations

Chairs: Kai Sun (UTK) and Jim Follum (PNNL), Secretary: Bin Wang (ISO New England)
Outreach Liaison: Farrokh Aminifar (Danovo Energy Solutions)

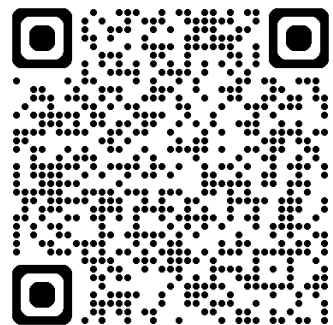
New monthly talks since the October 2025 NASPI meeting updates

- Dataset for Power System Forced Oscillation Responses (DPSYFOR) (by Mani V. Venkatasubramanian, WSU)
- Limitations of PMU Data for High Frequency Oscillations (by Bin Wang, ISONE)
- Oscillation detection and analysis using SCADA data (by Mani V. Venkatasubramanian, WSU)
- Planning for Large Load Oscillations: Evaluating Risks and Measurement Limitations (by S. Biswas and K. Chatterjee, PNNL)
- Oscillations mitigation experiences in Terna (by Giorgio Maria Giannuzzi, Terna)
- Wide-Area Power System Oscillations from Large-Scale AI Workloads (by Min-Seung Ko, UT Austin)
- Spain Blackout: Oscillatory Phenomena (by Giorgio Maria Giannuzzi with Terna)

TF report on the survey of approaches for identifying effective mitigation locations for sustained oscillations in modern power grids. In Progress with tentative completion of 9/30/2026

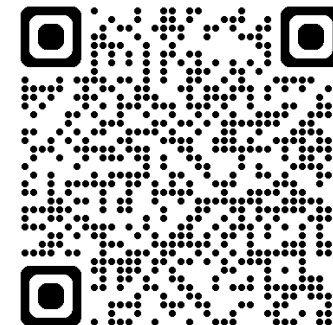
Details available at our
TF Portal

<https://web.eecs.utk.edu/~kaisun/FOTF/index.html>

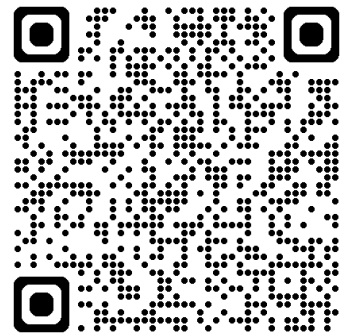


Recordings available at TF
YouTube Channel

[@IEEEPESForcedOscillation](#)
[sTF](#)



All cases now hosted
on IEEE DataPort

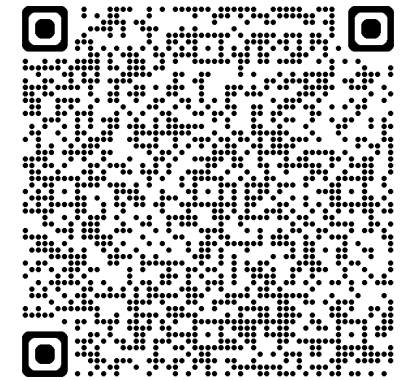




Liaison Update: NERC Synchronized Measurement Working Group (SMWG)

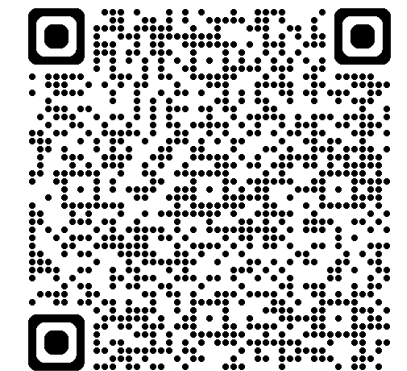
- New Work Plan items!!(seeking volunteers to contribute)
 - **Technical Reference Document: IBR-Driven Inertia Risk Awareness Using Synchronized Measurements**
(Improving Industry awareness and technical understanding of system inertia using synchronized measurement technologies to support IBR inertia-related frequency performance risks.)
 - **Technical Reference Document: Measurement-Based Interpretation of Oscillation Severity and Reliability Impact**
(Develop measurement-based methods to interpret the severity and reliability impact of oscillatory behaviors for different stakeholders in utility.)
- Work Plan items wrapping up soon
 - ✓ Roadmap for Integrating Synchrophasors into Real-time Operations – White Paper.
 - ✓ PMU Data Accuracy Maintenance Manual
 - ✓ Technical Reference Document: Power System Oscillation Monitoring and Mitigation
- Interested in Joining/Contributing?
 - Contact Kat Sico (kat.sico@duke-energy.com) or Nadia Smith (nadia.smith@nerc.net)

Want to be added to
the SMWG Meeting
Distribution List?



Seen an oscillation?

Find out if it meets
the criteria for
SMWG reporting.



Liaison Update: IEEE Synchro-Waveform Task Force

- Publications Library



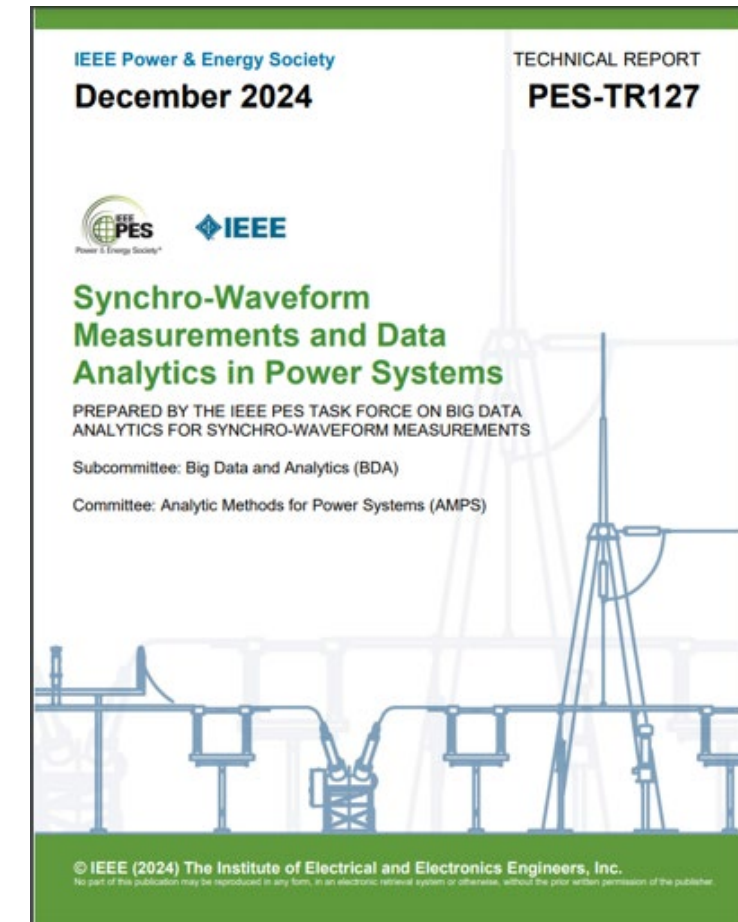
Welcome to the IEEE Task Force on Big Data Analytics for Synchro-Waveform Measurements

Waveforms are the most granular and authentic representation of voltage and current in power systems. With the latest advancements in power system sensor technologies, it is now possible to obtain time-synchronized waveform measurements, i.e., [synchro-waveforms](#), from different locations of a power system. Synchro-waveforms can capture the most inconspicuous disturbances that are overlooked by other types of time-synchronized sensors, such as synchro-phasors. They also monitor system dynamics at much higher frequencies as well as much lower frequencies than the fundamental components of voltage and current that are commonly monitored by synchro-phasor data analytics tools. Therefore, synchro-waveforms introduce a new frontier to advance power system situational awareness, system dynamics tracking, incipient fault detection and identification, condition monitoring, and so on.

By collecting data at a much higher reporting rate than synchro-phasors, synchro-waveforms create a new challenge in Big Data Analytics (BDA) in power systems.

The IEEE Task Force on Big Data Analytics for Synchro-Waveform Measurements was established in July 2022 to promote big data analytic methodologies and applications of

40 papers and industry reports have been indexed so far
Suggest papers through the website or via email.



PES-TR-127
Published in December 2024

Liaison Update: IEEE Synchro-Waveform Task Force

- Join Us



To Join the Task Force

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Reach out to Co-Chairs:

Hamed Mohsenian-Rad (hamed@ece.ucr.edu) and Jhi-Young Joo (J9JU@pge.com)