

Subject: Engineers Events & Insights

From: IEEE - Philadelphia Section <ieee-gpamg.org@shared1.ccsend.com>

Date: 8/7/26, 12:04 PM

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IEEE Philadelphia Section Night

**Register
Today!**

Date: August 18, 2026

Time: 7:00 pm - 8:00 pm

Location: Virtual

Hardware Acceleration for Post-Quantum Cryptography: Algorithmic Derivation and Architectural Innovation

Speaker: Dr. Jiafeng (Harvest) Xie

Post-quantum cryptography (PQC) has drawn significant attention from various communities recently as the existing public-key cryptosystems such as Rivest Shamir Adleman (RSA) and Elliptic Curve Cryptography (ECC) are proven to be vulnerable to the large-scale quantum computers executing Shor's algorithm. The National Institute of Standards and Technology (NIST) has already started the PQC standardization process, and hardware acceleration for PQC algorithms is one of the most recent focused topics. In this talk, I will follow this trend to introduce several interesting methods to accelerate the PQC algorithms on the hardware platform. Specifically, this talk will present the hardware implementation methods from the aspects of both algorithmic derivation and architectural innovation. Implementation techniques for specific NIST-selected PQC schemes are also covered in this talk. I hope that this talk will facilitate more research to help the PQC standardization and further development.

NOTE: PDH certificates are available and an evaluation form will be emailed to you after the meeting. PDH certificates are sent by IEEE USA.

Register here

<https://events.vtools.ieee.org/m/571060>

Meetings & Events

Co-sponsored by

IEEE Philadelphia Section, Temple University, and Neural Engineering Data Consortium

Date: August 14, 2026

Time: 8:30 AM to 4:15 PM

Location: Temple University-108 SERC, 1925 North 12th Street, Philadelphia, PA; also available via Zoom.

Quantum Machine Learning (QML) Workshop

Join us for an exciting one-day workshop focused on introducing the use of quantum computers for machine learning. Participants need not have any prior experience with machine learning or quantum computing, and will gain the skills necessary to run significant experiments using both quantum simulators and actual quantum hardware.

Topics:

- Fundamentals of Machine Learning (ML)
- Overview of Quantum Computing (QC)
- Opportunities in QC for ML (QML)
- Basic Linux Cluster Computing
- ML Experiments Using a QC Simulator
- QML Hardware Experiment
- The QML Advantage

Register here:

https://isip.piconepress.com/conferences/ieee_qmlw/2026/html/registration.php

IEEE WIE Speaker Series

Date: August 17, 2026

Time: 7:00 PM to 8:00 PM

Location: Virtual

Enhancing Real-Time Data Reliability through Observability-Driven Streaming Architecture in Distributed Systems

Speaker: Ravi Kumar Guttula

Modern distributed systems rely on real-time streaming pipelines to support business-critical applications across telecommunications, e-commerce, finance, healthcare, and cloud platforms. However, maintaining reliable event delivery in these environments remains challenging due to message loss, duplicate events, latency spikes, consumer lag, schema inconsistencies, and node-level failures.

This talk presents an observability-driven streaming architecture that integrates logs, metrics, distributed tracing, telemetry correlation, alerting, and automated remediation into the streaming lifecycle. The session explains how observability can evolve beyond traditional monitoring into a reliability control layer that improves fault detection, root-cause analysis, workload balancing, and recovery speed.

The discussion will cover practical design patterns using event-driven platforms, distributed tracing, dashboards, and self-healing mechanisms to improve message consistency, reduce downtime, and strengthen real-time data reliability in large-scale distributed systems.

Register here:

<https://events.vtools.ieee.org/m/561661>

IEEE Future Networks Community

Date: August 20, 2026

Time: 8:00 AM to 9:00 AM

Location: Virtual

Thinking Fast and 6G: Unbiasing LLM Agents in Autonomous Networks Through Neuroscience

Speaker: Dr. Hatim Chergui

Agentic AI is reshaping 6G network autonomy through intelligent agents that perceive, reason, plan, and act across domains. Yet this emerging cognitive layer inherits biases rooted in human design originating from the data we collect, the prompts we frame, and the objectives we define. Once embedded, these biases propagate through reasoning, memory, and tool-use components, subtly distorting perception and decision-making, and undermining performance in autonomous networks. Positioned at the intersection of neuroscience, psychology, and AI, this talk presents a systematic view of cognitive biases as an architectural

challenge for agentic 6G systems. It examines how such distortions arise and spread within the agentic pipeline and details debiasing strategies that directly improve 6G systems capability.

Register here:

<https://events.vtools.ieee.org/m/565777>

IEEE Philadelphia Section - Chair's Office Hour

Date: Recurring every 1st Wednesday of the month at 8 PM

Location: Virtual

No fixed agenda. Just a monthly recurring opportunity (1st Wednesday of the month at 8 PM Eastern Time) for members, volunteers, collaborators, and friends of the Philadelphia Section to drop in and have casual conversation with the Section Chair on all matters and ideas related to the IEEE Philadelphia Section.

Register here:

<https://events.vtools.ieee.org/m/535106>

Insider Insights

Earn IEEE-approved PDHs from Electrical Association of Philadelphia

EAP hosts webinars with continuing education credits that qualify in the following jurisdictions:

- Delaware, New Jersey, Philadelphia, Pennsylvania (Electrical Inspectors, Engineers)
- IEEE Professional Development Hours



Wednesday, September 23

Emergency Systems, NEC Article 700

8:00 am – 10:10 am

Zoom Webinar

Register at this link

<https://www.eap.org/education/continuing-education>

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- LEED: Is the #1 Sustainability Certification and is recognized globally
- Valuable Credential: Adds an industry-recognized certification that boosts employability.
- Open to All: Available to all levels of experience, with no prior knowledge required as our workshop has helped over 15,000 pass their exam.
- Time Sensitive: Those who pass before May 2026 will not be required to take the updated and more challenging new exam.
- Affordable: Limited time discounts are available for your members!
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1. September 12, 2026 - 1:00PM – 5:30PM EST
2. October 26, 2026 - 1:00PM – 5:30PM EST
3. November 21, 2026 - 1:00PM – 5:30PM EST
4. December 19, 2026 - 1:00PM – 5:30PM EST

Register for a webinar or start today with our on-demand recorded workshop which can be completed anytime at your own pace (see link & discount code below).

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IEEE Member Discount Cost: \$200 with **coupon code 'sust' for \$100 off** (Non-members \$300)

Please contact the instructor Lorne directly with any questions at info@leadinggreen.com and for those new to LEED, here is a short introduction to it - <https://youtu.be/X9FUJpIW9bI>

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