TNChE Asia 2025 Conference
" Accelerating Industrial Decarbonization:
Digital-AI and Energy Transformation "
Presenter's Biodata & Abstract

TNChE Asia 2025

TIChE

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Title of Presentation : Smarter Data, Faster Insights: Rethinking Industrial Analytics Architecture

Presentation Abstract:

As industrial operations become increasingly data-driven, many teams face growing pressure to do more with less—yet struggle with fragmented tools, slow data access, and the steep learning curve of proprietary systems. These challenges lead to longer development cycles, higher support burdens, and escalating software costs.

This session explores key principles for designing a cost-effective, secure, and scalable analytics workflow for the process industry. We'll discuss the value of adopting a unified platform that supports scripting, visualization, automation, and even machine learning—all using accessible, open-source technologies like Python.

By minimizing tool switching, data duplication, and vendor-specific overhead, teams can significantly reduce licensing, training, and integration costs—while improving agility and cybersecurity. Real-world examples will highlight how simplified workflows empower engineers to extract insights faster, without relying on expensive third-party systems or external expertise.