

Next Generation Network (NGN) Webinars



Artificial Intelligence (AI) Augmented Transmission Line Inspection

Summary

Overhead lines require extensive maintenance to ensure the integrity of their components throughout their operational lifespan. This maintenance can be performed more economically if the condition of the lines is accurately known. Recent advancements in automated image processing and neural network-based image evaluation have enabled the development of systems capable of detecting deficiencies, defects, and discrepancies in overhead lines through various types of imagery.

This presentation provides a general overview of the AI-augmented, image-based transmission line monitoring process and the associated technology.

Speaker

Janos Toth has over 35 years of diverse experience in transmission line design, construction, operation, and maintenance. Janos is recognized as an accomplished, versatile, and innovative professional. His dedication to delivering cutting-edge engineering and R&D solutions has impacted the electrical utility.

Janos holds a Ph.D. in Civil Engineering with minors in Engineering Mechanics and Space Engineering from the University of Arizona, USA. His extensive credentials also include certifications as a Project Management Professional (PMP) and as a Professional Engineer [P.Eng. and P.E.] in both Canada and the United States.

Throughout his illustrious career, Janos has taken on various pivotal roles. As a transmission line asset manager at British Columbia Transmission Corporation (BCTC), he was responsible for overseeing all civil/structural aspects of 18,000 km of transmission lines and 300 substations. He then transitioned to managing the R&D program for BCTC and continued his efforts post-merger at BC Hydro. In these positions, he represented BC Hydro at numerous associations, forums, and conferences.

Janos also served as Vice President of Engineering at Quanta Energized Services, a subsidiary of the Fortune 500 company Quanta, where he focused on live (energized) line work. His leadership extended to participation in several national and international standard committees, including the Institute of Electrical and Electronics Engineers (IEEE) Power Engineering Society (PES) and The International Council on Large Electric Systems (CIGRE). Janos is founder and CEO of RecognAlse Technologies Inc., a high-tech company working with Artificial Intelligence augmented transmission line inspections.

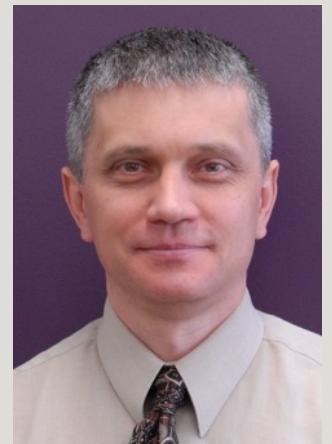
Janos also recently became the Convenor of CIGRE Working Group B2.93, Artificial Intelligence (AI) Augmented Image-Based Transmission Line Inspection and Condition Assessment.

Links & Information

Wednesday, September 18, 2024
11 am CDT | 12 pm EDT

Duration: 1 hour

[Register Here](#)



Janos Toth

Founder & CEO

RecognAlse Technologies Inc.