

CEOCOR 2022, Vienna

Patrick Krzyzak

Real-time analysis of CP data to detect external damages by construction machinery (PipeMon⁺)

For a safe long-term operation of pipelines continuous remote monitoring gets more and more important. PipeMon⁺, an Open Grid Europe development, can detect third-party damages by real-time monitoring of cathodic corrosion protection system. To handle this big amount of data the system uses a cloud-based software which computes the incoming data virtually in real time. In various field tests, practical applications on customers and OGE pipelines and in external benchmark tests PipeMon⁺ has proven its functionality and performance. Herein the general principle of PipeMon⁺ and the development of an AI based CP data analysis tool is reported.