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PROACTIVE MONITORING IN THE INDUSTRIAL INTERNET OF THINGS

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The article uses the example of the automatic measurement monitoring subsystem (AMMS) to consider the organization of proactive maintenance for monitoring measurement channels for reading information from sensors of the Industrial Internet of Things (IIoT). In order to improve the quality of proactive monitoring, it is proposed to use the tools underlying the software package of invisible industrial intelligence of the environment (IPIIE). In addition, the study shows that the concept of proactive monitoring must be functionally supplemented with a new Edge AI technology or artificial intelligence (AI) technology that operates on devices located near the signal source. Edge AI technology involves collecting data from sensors, locally processing this data using AI models, and using the obtained results to perform certain actions, such as sending notifications. Thus, the development and use of such AI-based innovations, especially with the use of machine learning (ML) algorithms and invisible intelligence of the environment, allows us to bring the capabilities of proactive monitoring to a new, more effective level.

Author: Dr ДИК, Геннадий

Co-authors: АЛЕКСАНДРОВ, Александр; Mr ДИК, Александр; ЮРОВ, Виктор; САВКОВ, Егор

Presenter: Dr ДИК, Геннадий

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