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Themes: Knowledge Management, Cybersecurity, Learning, and Information Technology
<https://iiakm.org/conference/>

Invited Talk
**Digital Transformation for the German Energy Transition – Developing a
Centralized Knowledge Management Database for the Energy Market**

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Abstract:

The corporation regiocom SE is an international service provider for contact center services and process digitization related to the energy market. The German energy transition accompanies a process in which once manageable numbers of energy-generating and feed-in plants, primarily large-scale power plants for coal, gas, water, and nuclear energy, are being supplemented and partially subsumed by more and more small decentralized units, such as solar plants, CHP plants, wind turbines but also stationary battery storage and emergency generators. Issues such as grid expansion but also operational grid control require the actual and correct availability of unanimous master data for these plants. Currently, more than two million power plants are feeding into the German energy grid, which have to be synchronized in future to prevent blackouts or critical shortages. On behalf of the Federal Network Agency, regiocom has designed, implemented, and put into operation a nationwide Core energy market data register (MaStR). Since the beginning of 2019, this system has provided a central database for all energy-generating plants, based on which it has been possible to develop value-added services for industry and research. Details about the development, the actual status and possible use cases only possible with this centralized knowledge will be presented in the talk.

About the Speaker:

Dr. Florian Marquardt has been a member of the Executive Board at regiocom SE in Magdeburg since 2018 and is responsible for the Digital Transformation division, in which various teams of developers implement highly sophisticated applications for the energy industry and other sectors. After his studies, he completed his doctorate at the Faculty of Computer Science at the University of Rostock. The focal points of his professional work are and were software engineering and AI. As a member of the management board, the focus of his work is among others on establishing agile structures and foster new possibilities of voice assistance and digital sales solutions. In the context of the energy industry, he is a regular speaker on the above topics at national and international events.

