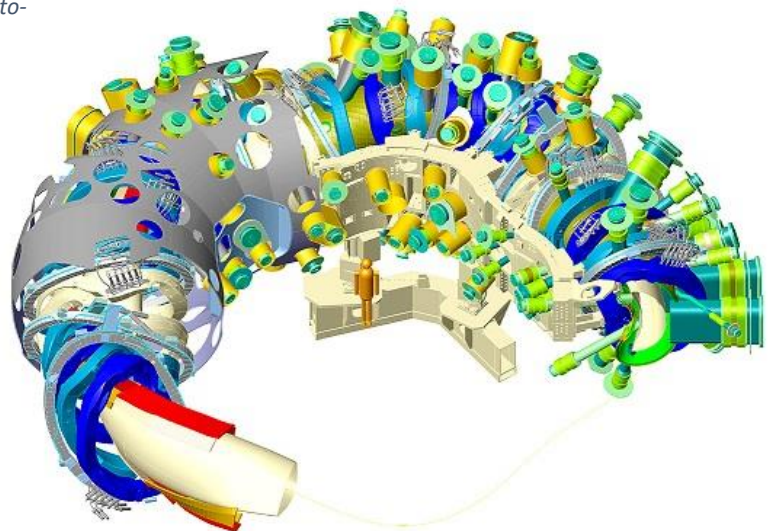


Implementation and Evaluation of IoT Protocols for the Next Generation of Trigger-Time-Event (TTE) Devices of the Wendelstein 7-X Fusion Experiment

- Language: German or English
- Prerequisites:
 - Networking technology
 - C/C++ programming
 - Beneficial: Experiences on embedded devices (e.g., Raspberry PI, Arduino etc.)
- Tasks:
 - Porting an existing implementation of an IoT protocol towards the already existing platform for new TTE devices (Virtex6, FreeRTOS)
 - Evaluation of suitability of this protocol regarding the requirements for next generation of TTE devices
 - Possible IoT protocols and technologies to be used are: HTTP, MQTT-SN, CoAP + LWM2M, OPC UA, DDS
- Literature:
 - Tanenbaum, A. S., & Wetherall, D. (2011). Computer networks
 - Internal documentation will be provided
- Contact: henning.puttnies@uni-rostock.de



<https://www.technologyrecord.com/Article/how-to-implement-an-industrial-internet-of-things-automation-plan-61582>



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