

Edge computing of multimodal sensor for critical power infrastructure

Summary

Taltech Department of Computer Systems, Research Group of Environmental Sensing and Intelligence offers a 4-year PhD position in the area of Internet of Intelligent Things.

Research field:	Information and communication technology
Supervisors:	Prof. Dr. Jako Kilter Jeffrey Andrew Tuhtan
Availability:	This position is available.
Offered by:	School of Information Technologies Department of Computer Systems
Application deadline:	Applications are accepted between June 01, 2020 00:00 and July 03, 2020 23:59 (Europe/Zurich)

Description

Successful candidates in the areas of Internet of Intelligent Things will conduct applied research to develop new data processing methods to combine acoustic, thermal imagery and vibration data at electrical power substations. The methods will be applied for data originating from high-voltage instrumented critical infrastructure with a focus on 110kV power substations. The method will require extensive testing and validation of the developed methods in a high-voltage laboratory.

The resulting research should create new data processing and sensor fusion methods, which can be processed in-situ with limited computational resources, which are able to run on a microcontroller. The results will be applicable for large-scale implementation as part of the Tallinn Smart City network, as well as for critical power system infrastructure monitoring and protection. The ideal candidate possesses educational and professional experience in signal and image processing and microcontroller programming.



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