Query Processing for the Semantic Sensor Web (Invited talk)

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The vision of the Semantic Sensor Web promises to unify the real and the virtual world by integrating sensor technologies and Semantic Web technologies. Sensors and their data will be formally described and annotated in order to facilitate the common integration, discovery and querying of information. Since this semantic information ultimately needs to be communicated by the sensors themselves, one may wonder whether existing techniques for processing, querying and modeling sensor data are still applicable under this increased load of transmitted data. In our talk we revisit several techniques for query processing in sensor networks and discuss how they can be adapted to, and used by, applications in the Semantic Sensor Web.