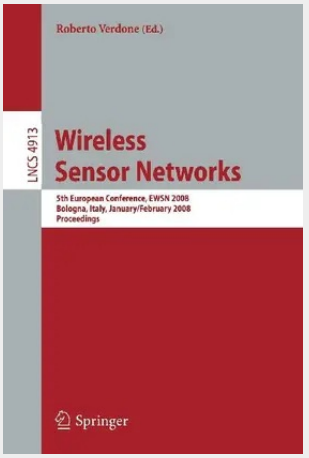
Verdone

Wireless Sensor Networks

5th European Conference, EWSN 2008, Bologna, Italy, January 30-February 1, 2008, Proceedings

ThisvolumecontainstheproceedingsofEWSN2008,the?fthEuropeanConf- ence on Wireless Sensor Networks, held in Bologna, Italy, during January 30–31 and February 1, 2008. Its scope was the creation of a forum where researchers with di?erent ex- rience and background could discuss cross-layer approaches, novel solutions for speci?c problems and envisage the future development of wireless sensor n- works (WSNs). Out of the 110 papers that were submitted, 23 were selected after a doub- blind peer-review process, leading to an acceptance rate of 21%. Six among the accepted papers included authors from North America, three from Asia, all others from Europe with the exception of one from Australia, and one from Brazil: the conference brought together researchers from almost all corners of the world! Demonstration and poster papers were also presented at the conference, of which separate proceedings were produced, under the supervision of the other TPC Co-chair, Zach Shelby from Sensinode ltd, who managed the reviews of these papers. The rangeoftopicscoveredby this conference,including communicationp- tocols, information processing, middleware, operating systems, hardware and ?eld tests, is very wide. This made the vision of a coherent ?nal technical p- gramme more di?cult, as few papers cover each of the various topics. But what made such a process even more challenging, is the intrinsic nature of WSNs, which is cross-layer and requires the joint consideration of many aspects when measuring or predicting the performance of a given algorithm, protocol, or te- nical solution.

Best Papers.- Clustering-Based Minimum Energy Wireless m-Connected k-Covered Sensor Networks.- Activity Recognition from On-Body Sensors: Accuracy-Power Trade-Off by Dynamic Sensor Selection.- Predictive Modeling-Based Data Collection in Wireless Sensor Networks.- Localization.- Distributed Inference for Network Localization Using Radio Interferometric Ranging.- Speed, Reliability and Energy Efficiency of HashSlot Communication in WSN Based Localization Systems.- Detection of Space/Time Correlated Events.- Spatiotemporal Anomaly Detection in Gas Monitoring Sensor Networks.- Discovery of Frequent Distributed Event Patterns in Sensor Networks.- Tracking Dynamic Boundary Fronts Using Range Sensors.- Network Coding.- Network-Coding-Based Cooperative Transmission in Wireless Sensor Networks: Diversity-Multiplexing Tradeoff and Coverage Area Extension.- Resilient Coding Algorithms for Sensor Network Data Persistence.- Zigbee.- Radio Characterization of 802.15.4 and Its Impact on the Design of Mobile Sensor Networks.- Analysis of Audio Streaming Capability of Zigbee Networks.- Efficient Resource Estimation During Mass Casualty Emergency Response Based on a Location Aware Disaster Aid Network.- Topology.- Efficient Clustering for Improving Network Performance in Wireless Sensor Networks.- Lifetime Maximization in Wireless Sensor Networks by Distributed Binary Search.- An Algorithm for Reconnecting Wireless Sensor Network Partitions.- Software.- Typhoon: A Reliable Data Dissemination Protocol for Wireless Sensor Networks.- FiGaRo: Fine-Grained Software Reconfiguration for Wireless Sensor Networks.- NanoECC: Testing the Limits of Elliptic Curve Cryptography in Sensor Networks.- Deployment and Application Development.- Characterizing Mote Performance: A Vector-Based Methodology.-Que: A Sensor Network Rapid Prototyping Tool with Application Experiences from a Data Center Deployment.- Device Driver Abstraction for Multithreaded Sensor Network Operating Systems.- A Component Framework for Content-Based Publish/Subscribe in Sensor Networks.



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