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	Nota di contenuto	Networking -- Versatile Support for Efficient Neighborhood Data Sharing -- An Energy-Efficient K-Hop Clustering Framework for Wireless Sensor Networks -- Efficient Routing from Multiple Sources to Multiple Sinks in Wireless Sensor Networks -- Tracking -- inTrack: High Precision Tracking of Mobile Sensor Nodes -- Approximate Initialization of Camera Sensor Networks -- Trail: A Distance Sensitive WSN Service for Distributed Object Tracking -- Algorithms -- Towards Energy-Efficient Skyline Monitoring in Wireless Sensor Networks -- Secure Data Aggregation with Multiple Encryption -- RIDA: A Robust Information-Driven Data Compression Architecture for Irregular Wireless Sensor Networks -- Loss Tomography in Wireless Sensor Network Using Gibbs Sampling -- Applications and Support -- Fence Monitoring – Experimental Evaluation of a Use Case for Wireless Sensor Networks -- Development of a Wireless Sensor Network for Collaborative Agents to Treat Scale Formation in Oil Pipes -- Deployment Support Network -- Medium Access Control -- Energy Consumption of Minimum Energy Coding in CDMA Wireless Sensor Networks -- Crankshaft: An Energy-Efficient MAC-Protocol for Dense

Wireless Sensor Networks -- Decentralized Scattering of Wake-Up Times in Wireless Sensor Networks -- OS and Tools -- Improving the Energy Efficiency of the MANTIS Kernel -- Model-Based Design Exploration of Wireless Sensor Node Lifetimes -- Multithreading Optimization Techniques for Sensor Network Operating Systems -- Localization -- An Empirical Study of Antenna Characteristics Toward RF-Based Localization for IEEE 802.15.4 Sensor Nodes -- Radio Propagation-Aware Distance Estimation Based on Neighborhood Comparison -- Removing Systematic Error in Node Localisation Using Scalable Data Fusion.

Sommario/riassunto	This volume contains the proceedings of EWSN 2007, the fourth European c- ference on Wireless Sensor Networks. The conference took place at TU Delft, January 29–31, 2007. Its objective was to provide a forum where researchers with di?erent experience and background, from hardware to applications, would presentanddiscussthelatestdevelopmentsintheexciting?eldofwirelesssensor networks. Since the interest in sensor networks has been rapidly expanding, it was no surprise that EWSN received a record number of 164 submissions, of which 22paperswereselectedforthe?nalconference.Itwasapleasuretoobservethat, although based in Europe, the conference serves as a truly international forum with submissions originating from all ?ve continents: 35% from Europe, 35% from Asia, 26% from America, 3% from Australia, and 1% from Africa. The -lectionprocessinvolvedmorethan500reviewswithmostpapersbeingevaluated by at least three reviewers. The ?nal program covered a wide range of topics, grouped into seven sessions: networking, tracking, algorithms, applications and support, medium access control, OS and tools, and localization. In addition to the papers published in these proceedings, the conference also included a poster and demonstration session, of which separate proceedings are available. Tutorials and keynotes complemented the program, together making for a truly interesting conference. In closing, we would like to express our sincere gratitude to everyone who contributed to EWSN 2007. In particular, the members of the Program C- mittee and external reviewers responsible for the strong technical program, the local TU Delft people for streamlining the conference logistics, and Springer for their excellent cooperation in putting these proceedings together.