



**Algorithmic Aspects of Wireless Sensor Networks:  
First International Workshop, ALGOSENSORS  
2004, Turku, Finland, July 16, 2004, Proceedings  
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## Algorithmic Aspects of Wireless Sensor Networks: First International Workshop, ALGOSENSORS 2004, Turku, Finland, July 16, 2004, Proceedings (Lecture Notes in Computer Science)

This volume contains the contributed papers and invited talks presented at the 1st International Workshop on Algorithmic Aspects of Wireless Sensor Networks (ALGOSENSORS 2004), which was held July 16, 2004, in Turku, Finland, - located with the 31st International Colloquium on Automata, Languages, and Programming (ICALP 2004). Wireless ad hoc sensor networks have become a very important research subject due to their potential to provide diverse services in numerous applications. The realization of sensor networks requires intensive technical research and development efforts, especially in power-aware scalable wireless ad hoc communications protocols, due to their unusual application requirements and severe constraints. On the other hand, a solid theoretical background seems necessary for sensor networks to achieve their full potential. It is an algorithmic challenge to achieve efficient and robust realizations of such large, highly dynamic, complex, non-conventional networking environments. Features, including the huge number of sensor devices involved, the severe power, computational and memory limitations, their dense deployment and frequent failures, pose new design, analysis and implementation challenges. This event is intended to provide a forum for researchers and practitioners to present their contributions related to all aspects of wireless sensor networks. Topics of interest for ALGOSENSORS 2004 were: – Modeling of specific sensor networks. – Methods for ad hoc deployment. – Algorithms for sensor localization and tracking of mobile users. – Dynamic sensor networks. – Hierarchical clustering architectures. – Attribute-based named networks. – Routing: implosion issues and resource management. – Communication protocols. – Media access control in sensor networks. – Simulators for sensor networks.

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