



Wireless Sensor and Robot Networks:From Topology Control to Communication Aspects

MITTON NATHALIE & SIMPLOT-RYL DAVID

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Wireless sensor networks have gained much attention these last years thanks to the great set of applications that accelerated the technological advances. Such networks have been widely investigated and many books and articles have been published about the new challenges they pose and how to address them. One of these challenges is node mobility: sensors could be moved unexpectedly if deployed in an uncontrolled environment or hold by moving object/animals.

Beyond all this, a new dimension arises when this mobility is controlled, i.e. if these sensors are embedded in robots. These robots cohabit with sensors and cooperate together to perform a given task collectively by presenting hardware constraints: they still rely on batteries; they communicate through short radio links and have limited capacities.

In this book, we propose to review new challenges brought about by controlled mobility for different goals and how they are addressed in the literature in wireless sensor and Robot networks, ranging from deployment to communications.

Contents:

- Preface (*N Mitton and D Simplot-Ryl*)
- Routing in Mobile Wireless Sensor Networks (*N Gouvry, N Mitton and D Simplot-Ryl*)
- Accelerated Random Walks for Efficient Data Collection in Mobile Sensor Networks (*A Constantinos Marios and S Nikolettseas*)
- Robot-Robot Coordination (*I Mezei, M Luki? and V Malbasa*)
- Mobile Robot Deployment in the Context of WSN (*M Erdelj and K Miranda*)
- Substitution Network: Controlled Mobility for Network Rescue (*I Guérin Lassous and T Razafindralambo*)
- Energy Restoration in Mobile Sensor Networks (*N Santoro and E Velazquez*)
- Wireless Sensor Networks Deployment: A Swarm Robotics Perspective (*A Reina and V Trianni*)
- Robot Cooperation and Swarm Intelligence (*N El Zoghby, V Loscrí, E Natalizio and V Cherfaoui*)
- Localization in Wireless Sensor Networks (*R Dagher and R Quilez*)
- Mobile Wireless Sensor Networks (*E Hamouda and J Gerdes*)

Readership: Graduate and professionals in networking, and robotics and automated systems.



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