



## Wireless Sensor Platform for Sporting Applications

By Rama Subramanian Sankaranarayanan

LAP Lambert Academic Publishing Dez 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand Neuware - This book revolves around the application of the wireless sensor networks for monitoring the fitness levels of the sports players in real time. A wireless sensor platform is developed to enable rapid prototyping for such applications. The main focus of this work is the design and implementation of a time-sharing protocol, considering the application specific requirements like huge volume of raw data from that of say, a 3-axis accelerometer and covering the entire play-field with the tiny nodes. Real world tests are conducted with multiple nodes in various environments to validate the performance of the protocol. Test results indicate that the packet error/loss is less than 1% with multiple nodes streaming data to a single server. Further enhancements and optimization are performed to make the protocol better suited for the sporting applications. This book is the outcome of the Master Thesis of Rama Subramanian S in Delft University of Technology and is carried out in and funded by Philips Research Eindhoven, The Netherlands. 68 pp. Englisch.



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