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Pradeep Kumar Singh · Bharat K. Bhargava ·  
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# Handbook of Wireless Sensor Networks: Issues and Challenges in Current Scenario's

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# Preface

Wireless sensor networks are being used in several kinds of applications varying from the health care, military, home, monitoring and industry. The prime objective of this book is to explore the current areas of research and challenges to be faced by different researchers. So, it can help the increasing number of scientists who depend upon sensor networks in some way. The book is organized into five parts, each part including chapters exploring a specific group of topics. The first part of the books covers the topics related to algorithms, protocols, communication strategies and data aggregation in wireless sensor networks (WSNs). The second part of the book is composed of topics related to energy conservation and management in WSNs. The third section of the book includes the chapters related to security and QoS in WSNs. Some of the useful applications of WSNs are covered in section four. Finally, the advancements on wireless sensor networks are included in section five. Book contains total 33 chapters.

The main readers of this book are expected to include the scientists, scholars and researchers in the field of computer science engineering and communication engineering; along with this, it is going to be very useful for the UG and PG students who are studying the wireless sensor networks as an elective or core course. Specialists, as well as student readers will find all the articles encouraging and helpful for their projects.

The main objective of this edited book is to concentrate on all aspects of current and future research directions related to the wireless sensor networks. Number of novel techniques that lead to future improvements in the area of wireless sensor networks are also included.

We would like to extend our sincere thanks to all the reviewers for providing the constructive feedback for the improvement of the quality of chapters. We also acknowledge the several authors who have contributed their chapter in this edited book. We are thankful to Dr. Thomas Ditzinger, Editorial Director, Interdisciplinary and Applied Sciences, Engineering, Springer, for his constructive comments for the

improvement of this book project. Finally, we would like to express our special thanks to Prof. Janusz Kacprzyk, Editor, and AISC Springer Series for believing in us and providing us constructive feedback during the approval of the book proposal.

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# Contents

**An Introduction on WSN Algorithms, Protocols, Communication Strategies and Data Aggregation**

**Introduction on Wireless Sensor Networks Issues and Challenges in Current Era** ..... 3  
Pradeep Kumar Singh and Marcin Paprzycki

**Intelligent Applications of WSN in the World: A Technological and Literary Background** ..... 13  
Reinaldo Padilha França, Yuzo Iano, Ana Carolina Borges Monteiro, and Rangel Arthur

**Medium Access Control Protocols for Wireless Sensor Networks** ..... 35  
Prashant R. Rothe and Jyoti P. Rothe

**Performance of Energy and Distance Based Modified Threshold for LEACH** ..... 52  
Remika Ngangbam, Ashraf Hossain, and Alok Shukla

**Medium Access Control Protocols for Mission Critical Wireless Sensor Networks** ..... 67  
Gayatri Sakya and Pradeep Kumar Singh

**QoS Routing for Data Gathering with RPL in WSNs** ..... 87  
Miklós Molnár

**Comparison of Neural Network Training Functions for RSSI Based Indoor Localization Problem in WSN** ..... 112  
Satish R. Jondhale, Manish Sharma, R. Maheswar, Raed Shubair, and Amruta Shelke

**Performance Assessment of the Fixed Node Assisted Collection Tree Protocol (FNA-CTP) in a Mobile Environment** ..... 134  
Ramiro Liscano, Aryan Kukreja, and Abdul Zainul-Abedin

**Energy Conservation and Management in WSN**

**An Effective Analysis and Performance Investigation  
of Energy Heterogeneity in Wireless Sensor Networks** ..... 157

Samayveer Singh, Rajeev Kumar, and Pradeep Kumar Singh

**A Firefly Optimization Algorithm for Maximizing  
the Connectivity in Mobile Wireless Sensor Network** ..... 195

Mamatha K M and Kiran M

**Energy Conscious Packet Transmission in Wireless Networks  
Using Trust Based Mechanism: A Cognitive Approach** ..... 218

Anshu Bhasin, Sandeep Singh, and Anshul Kalia

**Energy Distance Neighborhood Based Weighted Hierarchical  
Clustering Algorithm** ..... 239

Rabindra Bista and Ajaya Thapa

**Recent Advances in Wireless Sensor Network for Secure  
and Energy Efficient Routing Protocol** ..... 260

B. C. Gaur Sanjay, Manish Purohit, and Om Prakash Vyas

**Energy Efficient Routing Protocols for Wireless Sensor Network** ..... 275

Sumit Kumar Gupta, Sachin Kumar, Sudhanshu Tyagi,  
and Sudeep Tanwar

**Security & QOS in Wireless Sensor Networks**

**Low-Cost Architecture of the Universal Security Threat Detection  
System for Industrial IoT** ..... 301

M. Hajder, P. Hajder, and M. Nycz

**SYSLOC: Hybrid Key Generation in Sensor Network** ..... 325

N. Ambika

**Diffie-Hellman Algorithm Pedestal to Authenticate Nodes  
in Wireless Sensor Network** ..... 348

N. Ambika

**Privacy Aware Prevention of Sybil Attack in Vehicular  
Ad Hoc Networks** ..... 364

Rajeev Kumar, Naveen Chauhan, Pushpender Kumar, Narottam Chand,  
and Adil Umar Khan

**Key Management Schemes in Internet of Things:  
A Matrix Approach** ..... 381

Shubham Agrawal and Priyanka Ahlawat

<b>Black Hole Attack and Its Security Measure in Wireless Sensors Networks</b> .....	401
Ila Kaushik and Nikhil Sharma	
<b>Detection and Tracking of Mobile Intruder in Harsh Geographical Terrains Using Surveillance Wireless Sensor Networks</b> .....	417
Anamika Sharma and Siddhartha Chauhan	
<b>Applications of Wireless Sensor Networks</b>	
<b>Opportunities and Challenges with WSN's in Smart Technologies: A Smart Agriculture Perspective</b> .....	441
Nagesh Kumar and BrijBhushan Sharma	
<b>Detection and Monitoring of Forest Fire Using Serial Communication and Wi-Fi Wireless Sensor Network</b> .....	464
Harsh Deep Ahlawat and R. P. Chauhan	
<b>Application of Supervised Learning Approach for Target Localization in Wireless Sensor Network</b> .....	493
Satish R. Jondhale, Raed Shubair, Rekha P. Labade, Jaime Lloret, and Pramod R. Gunjal	
<b>Implementation of Automated Aroma Therapy Candle Process Planting Using IoT and WSN</b> .....	520
Siti Nor Zawani Ahmmad, Muhammad Tarmizi Mokhtar, Farkhana Muchtar, and Pradeep Kumar Singh	
<b>Implementation of Automated Retractable Roof for Home Line-Dry Suspension Area Using IoT and WSN</b> .....	546
Siti Nor Zawani Ahmmad, Muhammad Abdul Ghaffar Eswendy, Farkhana Muchtar, and Pradeep Kumar Singh	
<b>Advancements on Wireless Sensor Networks</b>	
<b>IoT Enabled Air Pollution Monitoring in Smart Cities</b> .....	569
Vrinda Gupta	
<b>Data Mining and Fusion Techniques for Wireless Intelligent Sensor Networks</b> .....	592
Ritika, Nafees Akhter Farooqui, and Ankita Tyagi	
<b>Internet of Things for Enhanced Living Environments, Health and Well-Being: Technologies, Architectures and Systems</b> .....	616
Gonçalo Marques, Jagriti Saini, Ivan Miguel Pires, Nuno Miranda, and Rui Pitarma	
<b>Energy Efficient Data Collection in Smart Cities Using IoT</b> .....	632
Tanuj Wala, Narottam Chand, and Ajay K. Sharma	

**A Review on Hybrid WSN-NGPON2 Network for Smart World . . . . . 655**  
Meet Kumari, Reecha Sharma, and Anu Sheetal

**Internet of Things in Forensics Investigation in Comparison  
to Digital Forensics . . . . . 672**  
Bhoopesh Kumar Sharma, Mayssa Hachem, Ved P. Mishra,  
and Maninder Jeet Kaur

**A Review on the Artificial Intelligence Algorithms  
for the Recognition of Activities of Daily Living  
Using Sensors in Mobile Devices . . . . . 685**  
Ivan Miguel Pires, Gonalo Marques, Nuno M. Garcia, Nuno Pombo,  
Francisco Fl3rez-Revuelta, Eftim Zdravevski, and Susanna Spinsante

**Author Index . . . . . 715**