

Volume 3, Book 4, 2024, IIP Series

Futuristic Trends in **IOT**



Futuristic Trends in

IOT

Volume 3, Book 4, 2024, IIP Proceedings



Title of the Book: Futuristic Trends in IOT

Edition: Volume 3, Book 4, 2024, IIP Proceedings

Copyright © 2024 Authors

No part of this book may be reproduced or transmitted in any form by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owners and publisher.

Disclaimer

The authors are solely responsible for the contents published in this book. The publisher or editors do not take any responsibility for the same in any manner. Errors, if any, are purely unintentional and readers are requested to communicate such errors to the editors or publishers to avoid discrepancies in future.

E-ISBN: 978-93-6252-596-3

Publisher, Printed at & Distribution by:

Selfypage Developers Pvt. Ltd.,
Pushpagiri Complex,
Beside SBI Housing Board,
K.M. Road Chikkamagaluru, Karnataka.
Tel.: +91-8861518868
E-mail: info@iipseries.org

IMPRINT: I I P Iterative International Publishers

PREFACE

This book series will be the great platform to share ideas and knowledge among the Industry experts, researchers and academics. Several current and upcoming frontier technologies, innovative solutions, research results, as well as enterprises related to internet of things and their applications will be published. It also focuses on a range of issues but not limited to

1. IoT Communication Technologies
2. IoT Architectures & Platforms
3. IoT Performance & Management
4. IoT Privacy and Security
5. IoT Embedded Systems, Sensors, Actuators
6. Practical and Innovative Applications of IoT & IoT Networks
(Smart Cities, Smart Mobility, Smart Home, Smart health, Smart Grid, etc)
7. IoT for the Industry & Business
8. IoT Operations & Interoperability
9. Augmented Reality and Virtual Reality in IoT
10. IoT & Artificial Intelligence

EDITORIAL BOARD MEMBERS

T Bhaskar

Associate Professor
CMR College of Engineering and Technology
Seethariguda, Telangana, India.

Dr. N. Nagadevi Bala

Assistant Professor
Vel Tech Rangarajan Dr Sagunthala
R&D Institute of Science and Technology
Chennai, Tamil Nadu, India.

Dr. Swetha K B

Associate Professor
Department of CSE
Sapthagiri NPS University
Bangalore, Karnataka, India.

Pradeep K G M

Associate Professor
Shridevi Institute of Engineering & Technology
Tumkur, Karnataka, India.

Dr. Gandhiya Vendhan S

Country Coordinator and Assistant Professor
Department of Statistics
Bharathiar University
Coimbatore, Tamil Nadu, India.

Vishal Sharma

Head of Department
Roorkee Institute of Technology
Roorkee, Uttarakhand, India.

Dr. Shaik Jaffer Vali

Assistant Professor

Dr. YSR Architecture and Fine Arts University

Andhra Pradesh, India.

T R Sangeeta

Assistant Professor

Sree Buddha College of Engineering

Pattoor, Allappuzha, Kerala

Mohammed Sirajudheen A

Principal

Malabar Polytechnic College

Palakkad, Kerala, India.

CONTENTS

PART 1		Page No.
Chapter 1 A FEASIBILITY SOLUTION FOR INTELLIGENT TRAFFIC MANAGEMENT AND ROAD SAFETY SYSTEM BY INTERNET OF THINGS (IOT) ENABLED 5G TECHNOLOGY.....		1-16
Chapter 2 IOT PRIVACY AND SECURITY.....		17-28
Chapter 3 FUTURISTIC TRENDS IN IOT.....		29-35
Chapter 4 MONITORING OF PV BASED EV CONVERTER SYSTEM USING INTERNET OF THINGS.....		36-52
Chapter 5 SMART AND IOT BASED INTELLIGENT MONITORING OF DFIG GENERATOR SYSTEM FOR WECS.....		53-71
Chapter 6 FAULT AND CONDITION MONITORING OF THREE PHASE INDUCTION DRIVE BASED ON INTERNET OF THINGS.....		72-83
Chapter 7 SIMULATION OF WIRELESS SENSOR NETWORK FOR ENERGY MANAGEMENT IN IOT ENVIRONMENTS.....		84-90
Chapter 8 IOT BASED MONITORING OF DUAL AXIS TRACKER FED PV SYSTEM		91-106
Chapter 9 PRACTICAL AND INNOVATIVE APPLICATIONS OF IOT AND IOT NETWORKS.....		107-117
Chapter 10 IOT-AADHAAR IDENTITY PROCESSING USING INTEGRATED MODEL		118-128
Chapter 11 SURVEYING ON UBI-BASED SMART FISH FARMING AQUACULTURE MONITORING SYSTEM.....		129-134
Chapter 12 “THINGS” AND COMMUNICATION TRENDS IN IOT		135-146

Chapter 13 WIRELESS SENSOR INTERFACED HEALTH MONITORING IOT ROBOT SYSTEM.....	147-158
--	----------------

Chapter 14 NETWORKS, TECHNOLOGY, SECURITY, AND APPLICATIONS IN THE HEALTH SECTOR FOR IOT ENABLED SMART WEARABLE: A REVIEW	159-170
--	----------------

PART 2

Chapter 1 ATTRIBUTE BASED ENCRYPTION IN IOT DEVICES.....	171-179
--	----------------

Chapter 2 AN IOT UTILITY MODULE PLACEMENT METHOD FOR CLOUD-FOG COMMUNITY ENVIRONMENT.....	180-190
--	----------------

Chapter 3 USING AI TO CREATE UNPRECEDENTED VISUAL EFFECTS FOR ANIMATED FILM.....	191-204
---	----------------

Chapter 4 IMPROVING THE EFFICIENCY OF IMAGE PROCESSING WITH DEEP LEARNING FOR VEHICLE DETECTION AND TRACKING	205-227
---	----------------

Chapter 5 IOT PRIVACY AND SECURITY.....	228-233
---	----------------

Chapter 6 CONNECTING THE DOTS.....	234-241
--	----------------

Chapter 7 IMAGE ENHANCEMENT WITH OPTIMIZED GAMMA CORRECTION THROUGH WEIGHTED DISTRIBUTION VIA DIFFERENTIAL EVOLUTION ALGORITHM	242-248
--	----------------



IIP Series is online, open access, peer-reviewed, interdisciplinary Journal. IIP Series provides a comprehensive solution for conferences and edited books that covers research topics across various scientific, technical, and medical disciplines. It aims at disseminating high-level research results and developments to researchers and research groups. It mainly focuses on presenting practical solutions for the current problems in Applied Sciences and Applied Social Sciences. It features original research work, reviews, case reports, tutorial papers, and accounts of practical developments.

Futuristic Trends in IOT

Volume 3 Book 4, 2024, IIP Series

ISBN : 978-93-6252-596-3

