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Modern cars are more computerized

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than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security

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environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities

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and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and

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perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car

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Hacker's Handbook will show you how to:

- Build an accurate threat model for your vehicle**
- Reverse engineer the CAN bus to fake engine signals**
- Exploit vulnerabilities in diagnostic and data-logging systems**
- Hack the ECU and other firmware**

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**and embedded systems –Feed
exploits through infotainment and
vehicle-to-vehicle communication
systems –Override factory settings
with performance-tuning techniques
–Build physical and virtual test
benches to try out exploits safely If**

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you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop. Shows you how to automate your lights, curtains, music, and more, and control everything via a laptop

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or mobile phone.

Getting Started for Internet of Things with Launch Pad and ESP8266 provides a platform to get started with the Ti launch pad and IoT modules for Internet of Things applications. The book provides the

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basic knowledge of Ti launch Pad and ESP8266 based customized modules with their interfacing, along with the programming. The book discusses the application of Internet of Things in different areas. Several examples for rapid prototyping are

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included, this to make the readers understand the concept of IoT. The book comprises of twenty-seven chapters, which are divided into four sections and which focus on the design of various independent prototypes. Section-A gives a brief

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**introduction to Ti launch pad
(MSP430) and Internet of Things
platforms like GPRS, NodeMCU and
NuttyFi (ESP8266 customized
board), and it shows steps to
program these boards. Examples on
how to interface these boards with**

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display units, analog sensors, digital sensors and actuators are also included, this to make reader comfortable with the platforms. Section-B discusses the communication modes to relay the data like serial out, PWM and I2C.

Section-C explores the IoT data loggers and shows certain steps to design and interact with the servers. Section-D includes few IoT based case studies in various fields. This book is based on the practical experience of the authors while

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**undergoing projects with students
and partners from various
industries.**

**Is 5G network your biggest dream?
Get the latest issue of Electronics For
You not only to find more
information regarding the 5G**

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**network but also to get an insight
into the FPGA development boards,
to design a radio-controlled plane. It
also has a buyer's guide on
headphones, a market survey on
Green UPS and inverter systems...
Smart Home Automation with Linux**

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and Raspberry Pi

from System to Applications

Protocols and Architectures for

Wireless Sensor Networks

Measurement Made Simple with

Arduino

Introducing Energy Harvesting to

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Sensor Networks

**Get started with Internet of things
with ESP8266 and Arduino IDE**

th On behalf of the
organizing committee of
the 13 International
Conference on Biomedical

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Engineering, I extend
our w- mest welcome to
you. This series of
conference began in 1983
and is jointly organized
by the YLL School of
Medicine and Faculty of

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Engineering of the
National University of
Singapore and the
Biomedical Engineering
Society (Singapore).
First of all, I want to
thank Mr Lim Chuan Poh,

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Chairman A*STAR who kindly agreed to be our Guest of Honour to give th the Opening Address amidst his busy schedule. I am delighted to report that the 13

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ICBME has more than 600 participants from 40 countries. We have received very high quality papers and inevitably we had to turndown some papers. We

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have invited very prominent speakers and each one is an authority in their field of expertise. I am grateful to each one of them for setting aside their

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valuable time to participate in this conference. For the first time, the Biomedical Engineering Society (USA) will be sponsoring two symposia,

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ie “Drug Delivery Systems” and “Systems Biology and Computational Bioengineering”. I am thankful to Prof Tom Skalak for his

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leadership in this initiative. I would also like to acknowledge the contribution of Prof Takami Yamaguchi for organizing the NUS-Tohoku's Global COE

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workshop within this
conference. Thanks also
to Prof Fritz Bodem for
organizing the
symposium, "Space Flight
Bioengineering". This
year's conference

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proceedings will be published by Springer as an IFMBE Proceedings Series.

The advancements in decision sciences theory and applications can be

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regarded as a
continuously emerging
field in all areas of
interest including
technology, industry,
energy, healthcare,
education, agriculture,

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social sciences, and more. Managers in all disciplines face an endless list of complex issues every day. One of the essential managerial skills is the ability to

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allocate and utilize limited resources appropriately in the efforts of achieving optimal performance efficiently. This is no less important for those

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who work in the
transportation sector.
The Handbook of Research
on Decision Sciences and
Applications in the
Transportation Sector
explores the importance

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of decision sciences and
the ways in which they
apply to the
transportation sector.
This book covers
technologies and tools
including machine

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learning, mathematical modeling, and simulation and their applications in such tasks as reducing fuel costs, improving passenger flow, and ensuring

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vehicle safety. It is an essential reference source for managers, professionals in the transport industry, supply chain specialists, safety

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officers, IT
consultants, executives,
practitioners,
scientists, students,
researchers, and
academicians.

This book features a

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collection of high-
quality research papers
presented at the
International Conference
on Advanced Computing
Technology (ICACT 2020),
held at the SRM

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Institute of Science and
Technology, Chennai,
India, on 23-24 January
2020. It covers the
areas of computational
intelligence, artificial
intelligence, machine

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learning, deep learning,
big data, and
applications of
artificial intelligence
in networking, IoT and
bioinformatics

Bringing to you the May

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issue of Electronics For
You with an insight into
virtual electronics. It
also has a buyer's guide
for 3D printers priced
below one lakh, a
buyer's guide on LED

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bulbs in India to help
you make your choice for
the right bulb to be
bought, information
regarding modern
sensors, a marketing
survey report on

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telecommunications, ...
Proceedings of the
Fourteenth International
Symposium on
Biotelemetry ; Marburg,
Germany, April 6 - 11,
1997

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Cool Projects for Open
Source Hardware

Practical Electronics
for Inventors, Third
Edition

Cookbook For Mobile

Robotic Platform Control

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21 different
measurements, covers all
physical and electrical
parameter with code and
circuit

Artificial Intelligence
Techniques for Advanced

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Computing Applications
*Analog Circuit Design contains
eighteen tutorials, reflecting the
contributions of six experts, as
presented at the 15th workshop on
Advances in Analog Circuit Design
(AACD). Provides 18 overviews of*

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analog circuit design in High-Speed A-D Converters, Automotive Electronics and Ultra-Low Power Wireless. An essential reference source for the latest developments in the field, tutorial coverage makes it suitable for advanced design courses.

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This is a comprehensive volume on all aspects of lighting control systems. Basic introductory chapters are included for those with little or no knowledge of the basics of electricity and light or electronic components. PIC in Practice is a graded course

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based around the practical use of the PIC microcontroller through project work. Principles are introduced gradually, through hands-on experience, enabling students to develop their understanding at their own pace. Dave Smith has based the

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book on his popular short courses on the PIC for professionals, students and teachers at Manchester Metropolitan University. The result is a graded text, formulated around practical exercises, which truly guides the reader from square one. The book can be used at a

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variety of levels and the carefully graded projects make it ideal for colleges, schools and universities. Newcomers to the PIC will find it a painless introduction, whilst electronics hobbyists will enjoy the practical nature of this first course in

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microcontrollers. PIC in Practice introduces applications using the popular 16F84 device as well as the 16F627, 16F877, 12C508, 12C629 and 12C675. In this new edition excellent coverage is given to the 16F818, with additional information on writing and

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*documenting software. * Gentle introduction to using PICs for electronic applications * Principles and programming introduced through graded projects * Thoroughly up-to-date with new chapters on the 16F818 and writing and documenting*

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programs

This is the third revised edition of the established and trusted RFID Handbook; the most comprehensive introduction to radio frequency identification (RFID) available. This essential new edition contains

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information on electronic product code (EPC) and the EPC global network, and explains near-field communication (NFC) in depth. It includes revisions on chapters devoted to the physical principles of RFID systems and microprocessors, and supplies up-to-

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date details on relevant standards and regulations. Taking into account critical modern concerns, this handbook provides the latest information on: the use of RFID in ticketing and electronic passports; the security of RFID systems, explaining

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attacks on RFID systems and other security matters, such as transponder emulation and cloning, defence using cryptographic methods, and electronic article surveillance; frequency ranges and radio licensing regulations. The text explores schematic circuits of

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simple transponders and readers, and includes new material on active and passive transponders, ISO/IEC 18000 family, ISO/IEC 15691 and 15692. It also describes the technical limits of RFID systems. A unique resource offering a complete overview of the

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large and varied world of RFID, Klaus Finkenzeller's volume is useful for end-users of the technology as well as practitioners in auto ID and IT designers of RFID products. Computer and electronics engineers in security system development, microchip

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designers, and materials handling specialists benefit from this book, as do automation, industrial and transport engineers. Clear and thorough explanations also make this an excellent introduction to the topic for graduate level students in electronics

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and industrial engineering design.

*Klaus Finkenzeller was awarded the
Fraunhofer-Smart Card Prize 2008 for
the second edition of this publication,
which was celebrated for being an
outstanding contribution to the smart
card field.*

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Analog Circuit Design

*Proceedings of the First International
Conference on Combinatorial and
Optimization, ICCAP 2021, December
7-8 2021, Chennai, India*

*6th International Conference, FDSE
2019, Nha Trang City, Vietnam,*

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*November 27–29, 2019, Proceedings
Ultra Low Power Bioelectronics
The Car Hacker's Handbook
Proceedings of the 9th Portuguese
Congress on Biomechanics, CNB2021,
19 - 20 February 2021, Porto,
Portugal*

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RFID based application creates tremendous new business opportunities such as the support of independent living of elderly and disabled persons, efficient supply chains, efficient anti-counterfeiting and better

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environmental monitoring. RFID
data management, scalable
information systems, business
process reengineering, and
evaluating investments are
emerging as significant technical
challenges to applications

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underpinned by new developments in RFID technology. This book presents the contributions from world leading experts on the latest developments and state-of-the-art results in the RFID field to

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address these challenges. The book offers a comprehensive and systematic description of technologies, architectures, and methodologies of various efficient, secure, scalable, and reliable RFID and RFID based

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applications.

Using an easily understood approach combined with numerous worked examples, illustrations and homework problems, this textbook focuses on minimizing the mathematics

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needed to grasp radio frequency engineering. The book includes broad coverage of RF systems, circuit design, antennas, propagation and digital techniques. Written for upper level undergraduate courses, it

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will also provide an excellent introduction to the subject for graduate students, researchers and practicing engineers.

3D printing is slowly making its grip in the industry making the works easier and faster. Here is

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the February issue of Electronics
For You to not only inform you
about the amazing
advancements that arising due to
3D printing in India but also to
find out the different causes of
concern. Additionally, check out

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the buyer's guide on handheld instruments, the use of vedic mathematics in Embedded Systems,...

Controlling Robots using Blynk, Virtuino, Cayenne, Thingspeak, FirebaseKey features The book

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provides gradual pace of basics to advanced interfacing and programming with Ti launch pad for IoT applications. It provides a unique style for IoT applications with program codes. It discusses various applications where the

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Internet of Things plays an important role, and considers a number of different independent prototypes for various mobile robotics platform control methods. The control of robot with different mobile apps like

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Blynk, Virtuino, Cayenne,
Thingspeak, Firebase are
included for vast coverage of
scope. Step by step
programming, to get started with
Ti launch Pad Case studies to
provide solution to real time

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problems The case studies and programming in book are tested on real hardware during handling the industrial and student projects. Description This book provides a platform to the readers, where they can

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understand the applications of 'Internet of Things' to control the robotic platform. It covers the basic knowledge of the mobile apps with their designing steps and programming. The objective of the book is to discuss various

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applications of robotic platform where 'Internet of things' can play an important role. This book comprises of total seventeen chapters for designing different independent prototypes for the various control methods. It

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covers introduction to IoT and basic components to design a robotic platform. The system demonstration is done with the help of Ti Launch Pad and other interfacing devices. The control of robot with different mobile

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apps like Blynk, Virtuino, Cayenne, Thingspeak, Firebase are included for vast coverage of scope. It would be beneficial for the people who want to get started with hardware based robotic prototypes with IoT. This

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book is entirely based on the practical experience of the authors while undergoing projects with the students and industries. What will you learn Interfacing of Ti launch Pad and NodeMCU with Input/Output

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Devices Serial Communication
between Ti Launch Pad and
NodeMCU Robot Control Using
the Blynk, Virtuino App
Environment Monitoring Robot
with BLYNK App Sensory Data
Acquisition Robot Using a

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ThingSpeak Server Robot
Control with Cayenne App, Local
Server and NodeMCU, Firebase
Server Who this book is for
Students pursuing
BE/BSc/ME/MSc/BTech/MTech
in Computer Science,

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Electronics, Electrical. Table of
contents1. Introduction2.
Components of a Robotic
Platform3. Interfacing of Ti
launch Pad with Input/Output
Devices4. Interfacing of
NodeMCU with Input/Output

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Devices5. Serial Communication
between Ti Launch Pad and
NodeMCU6. Robot Control
Using the Blynk App7. Robot
Control Using the Virtuino App8.
Environment Monitoring Robot
with BLYNK App9. Sensory Data

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Acquisition Robot Using a
ThingSpeak Server 10. Robot
Control with Cayenne App11.
Robot Control with Local Server
and NodeMCU12. Robot Control
with a Firebase Server13. XBee
and Wi-Fi Modem Based Robot

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Control14. Fire Fighting
Robot15. The Internet of Things
Robotic Arm16. The Smart
Orchard with a Robotic Arm
Sprinkler17. Smart Farming with
the IoT About the authorDr. Anita
Gehlot is currently associated

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with Lovely Professional
University as Associate
Professor with more than ten
years of experience in
academics. She has twenty
patents in her account. She has
published more than fifty

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research papers in referred journals and conference. She has organized a number of workshops, summer internships and expert lectures for students. She has been invited as session chair keynote speaker to

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international/national
conferences and faculty
development program. Dr.
Rajesh Singh is currently
associated with Lovely
Professional University as
Professor with more than fifteen

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years of experience in academics. He has been awarded as gold medalist in M.Tech and honors in his B.E. His area of expertise includes embedded systems, robotics, wireless sensor networks and

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Internet of Things. He has organized and conducted a number of workshops, summer internships and expert lectures for students as well as faculty. He has twenty-three patents in his account. He has published

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around hundred research papers
in referred journals/conferences.

His LinkedIn Profile: [linkedin.com
/in/dr-rajesh-singh-6380845a](https://www.linkedin.com/in/dr-rajesh-singh-6380845a)His

Website:

orcid.org/0000-0002-3164-8905

Dr. Lovi Raj Gupta is the

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Executive Dean, Faculty of
Technology & Sciences, Lovely
Professional University. He is a
leading light in the field of
Technical and Higher education
in the country. His research-
focused approach and an

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insightful innovative intervention of technology in education have won him much accolades and laurels. In 2001, he was appointed as Assistant Controller (Technology), Ministry of IT, Govt. of India by the Honorable

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President of India in the Office of the Controller of Certifying Authorities (CCA). In 2013, he was accorded the role in the National Advisory Board for What Can I Give Mission - Kalam Foundation of Dr. APJ Abdul

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Kalam. In 2011, he received the MIT Technology Review Grand Challenge Award followed by the coveted Infosys InfyMakers Award in the year 2016. He has ten patents to his account. His LinkedIn Profile:

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[linkedin.com/in/loviraj](https://www.linkedin.com/in/loviraj) Bhupendra Singh is Managing Director of Schematics Microelectronics and provides Product design and R&D support to industries and Universities. He has completed BCA, PGDCA, M.Sc. (CS),

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M.Tech and has more than eleven years of experience in the field of Computer Networking and Embedded systems. He has published twelve books in the area of Embedded Systems and Internet of Things. His Blog:

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schematicslab.blogspot.in/ His
LinkedIn Profile:

[linkedin.com/in/bhupisir](https://www.linkedin.com/in/bhupisir)

The Essential Guide to RF and
Wireless

C Programming for Arduino

Radio Frequency Identification

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Electronics for You, June 2015
High-Speed A-D Converters,
Automotive Electronics and Ultra-
Low Power Wireless
Nuts & Volts
Arduino Traffic Light Information
System

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This book constitutes the proceedings of the 6th International Conference on Future Data and Security Engineering, FDSE 2019, held in Nha Trang City, Vietnam, in November 2019. The 38 full papers and 14 short papers presented

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together with 2 papers of keynote speeches were carefully reviewed and selected from 159 submissions. The selected papers are organized into the following topical headings: Invited Keynotes, Advanced Studies in Machine

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Learning, Advances in Query
Processing and Optimization, Big
Data Analytics and Distributed
Systems, Deep Learning and
Applications, Cloud Data
Management and Infrastructure,
Security and Privacy Engineering,

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Authentication and Access Control,
Blockchain and Cybersecurity,
Emerging Data Management
Systems and Applications, Short
papers: Security and Data
Engineering.

The only easy-to-understand guide

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to the wireless revolution! The easy-to-understand guide to the wireless revolution—fully updated for the latest technologies! New and expanded coverage: broadband fixed wireless, WLANs, wireless Internet, Bluetooth, smart antennas,

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and more Updated coverage of CDMA, GPS, LMDS, and WLL systems Concepts, terminology, components, and systems—plus new wireless glossary Perfect for marketers, investors, tech writers, PR specialists, and other non-

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engineers! There's a wireless revolution underway! With *The Essential Guide to RF and Wireless, Second Edition*, you can understand it, join it, and help drive it—even if you don't have a technical background. Leading consultant

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Carl J. Weisman has thoroughly updated this bestseller to reflect new market realities and breakthrough technologies—from wireless 802.11 LANs to broadband fixed wireless, and beyond. Mr. Weisman covers wireless at every

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level you need to understand:
concepts, terminology, building
blocks, and above all, how
complete wireless systems actually
work. Drawing on his extensive
experience training sales
professionals, he explains the

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essence of every key wireless/RF technology—clearly, comprehensibly, and with just the right touch of humor. Spread spectrum and CDMA: how they work and why they're important
New! Detailed section on

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broadband fixed wireless: the new
"last mile" solution for residential
subscribers New! Satellite Internet
delivery New! Smart antenna and
superconducting filter technologies
and their implications New!
Wireless Internet, m-commerce,

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and Bluetooth Expanded! Global
Positioning Systems: technologies
and applications Updated! Preview
the future of mobile telephony
Updated! Wireless LANs and home
networking From its all-new
glossary to its extensive collection

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of charts, diagrams, and
photographs, no other wireless/RF
book is as accessible or as friendly!
Whether you're a sales or
marketing pro, customer, investor,
tech writer, PR specialist, trade
press writer, analyst, planner, or

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student, here's the up-to-the-minute briefing you've been searching for! This book provides, for the first time, a broad and deep treatment of the fields of both ultra low power electronics and bioelectronics. It discusses fundamental principles

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and circuits for ultra low power electronic design and their applications in biomedical systems. It also discusses how ultra energy efficient cellular and neural systems in biology can inspire revolutionary low power architectures in mixed-

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signal and RF electronics. The book presents a unique, unifying view of ultra low power analog and digital electronics and emphasizes the use of the ultra energy efficient subthreshold regime of transistor operation in both. Chapters on

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batteries, energy harvesting, and the future of energy provide an understanding of fundamental relationships between energy use and energy generation at small scales and at large scales. A wealth of insights and examples from brain

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implants, cochlear implants, bio-molecular sensing, cardiac devices, and bio-inspired systems make the book useful and engaging for students and practicing engineers.

Electronics for You, May 2015

Smart Home Automation with Linux

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PIC in Practice

A Project-based Approach

RoboCam-control and Wireless
Transmission

ICBME 2008, 3-6 December 2008,
Singapore

Super book for becoming

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super hero in Internet of Things world. It takes you from zero to become master in ESP8266 programming using Arduino IDE. IoT is recent trend in market you can built anything with help of this book, covers from

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***basics to advance level.
Includes getting data to
VB.net, drawing graphs, using
google gadgets to show
gauges, hardware design
aspects and much more.
Brendan O'Brien, Chief
Architect & Co-Founder, Aria***

Systems once said, "If you think that the internet has changed your life, think again. The IoT is about to change it all over again!" The only information required is on how and where to use it. The latest issue of Electronics

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***For You, featured on IoT and
Made in India initiative will
answer this.***

***This proceeding constitutes
the thoroughly refereed
proceedings of the 1st
International Conference on
Combinatorial and***

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***Optimization, ICCAP 2021,
December 7-8, 2021. This
event was organized by the
group of Professors in
Chennai. The Conference aims
to provide the opportunities
for informal conversations,
have proven to be of great***

interest to other scientists and analysts employing these mathematical sciences in their professional work in business, industry, and government. The Conference continues to promote better understanding of the roles of

modern applied mathematics, combinatorics, and computer science to acquaint the investigator in each of these areas with the various techniques and algorithms which are available to assist in his or her research. We

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***selected 257 papers were
carefully reviewed and
selected from 741
submissions. The
presentations covered
multiple research fields like
Computer Science, Artificial
Intelligence, internet***

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technology, smart health care etc., brought the discussion on how to shape optimization methods around human and social needs.

The revised, corrected, and up-to-date reboot of a comprehensive classic!

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***Technology and Applications
Proceedings of ICACT 2020
Biotelemetry XIV
Lighting Control
TDL 2015-2016 Catalogue***

Bringing to you the special issue

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*on wearables with Electronics
For You, June 2015. It will help
you guide the golden rules
related to design wearable
devices, identify how flexible
electronics is helping in the
promotion of wearables and a*

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buyer's guide for selecting the right wearable device. This is not all, this issue will also help you select the right wireless modules and...

Wireless sensor networks (WSNs) have emerged as a

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phenomenon of the twenty-first century with numerous kinds of sensor being developed for specific applications. The origins of WSNs can, however, be traced back to the early days of connectivity between computers

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and their peripherals. Work with distributed sensor networks is evidenced in the literature during the latter part of the 1970s, continuing in functionality increases in the 1980s and 1990s. As a configuration of

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independent devices in a data communications network, WSNs are now pre-eminent as working solutions to numerous precision data collection situations where software control of instruments and routing protocols are

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needed. In this book, the authors have chosen a selection of specific topics relating to WSNs: their design, development, implementation and function. Some operating topics are addressed such as power

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management, data interchange protocols, instrument reliability and system security. Other topics are more application oriented, where particular hardware and software configurations are described to

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deliver system solutions for specific needs. All are clearly written with considerable detail relating to each of the issues addressed by the authors. Each of the chapters provides a rationale for the topic being

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covered and some general WSN details where appropriate. The citations used in the chapters are comprehensively referred to, which adds depth to the information being presented.

150 Projects With Arduino

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This book gives insides of electrical and physical parameter measurements using arduino such as AC current, Frequency, pH, Liquid Level, flow, Air pressure and many more. The book layout is kept very simple

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*like experiment notes 1. Discuss
the measurement parameter 2.
Sensor description 3. Circuit and
its calculation 4. Circuit design 5.
Programming 6. Results.*

*13th International Conference on
Biomedical Engineering*

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*150 Projects With Arduino
Arduino Traffic Light Information
System
Electronics for You, April 2015
Fundamentals, Biomedical
Applications, and Bio-Inspired
Systems*

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Practical Arduino

Create your own Arduino-based designs, gain in-depth knowledge of the architecture of Arduino, and learn the user-friendly Arduino language all in the context of practical projects that you can build

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**yourself at home. Get hands-on
experience using a variety of
projects and recipes for everything
from home automation to test
equipment. Arduino has taken off as
an incredibly popular building block
among ubicomp (ubiquitous**

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computing) enthusiasts, robotics hobbyists, and DIY home automation developers. Authors Jonathan Ozer and Hugh Blemings provide detailed instructions for building a wide range of both practical and fun Arduino-related

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projects, covering areas such as hobbies, automotive, communications, home automation, and instrumentation. Take Arduino beyond "blink" to a wide variety of projects from simple to challenging Hands-on recipes for everything

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**from home automation to
interfacing with your car engine
management system Explanations of
techniques and references to handy
resources for ubiquitous computing
projects Supplementary material
includes a circuit schematic**

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reference, introductions to a range of electronic engineering principles and general hints & tips. These combine with the projects themselves to make Practical Arduino: Cool Projects for Open Source Hardware an invaluable

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reference for Arduino users of all levels. You'll learn a wide variety of techniques that can be applied to your own projects.

Written as a practical Packt book brimming with engaging examples, C Programming for Arduino will

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help those new to the amazing open source electronic platform so that they can start developing some great projects from the very start. This book is great for people who want to learn how to design & build their own electronic devices. From

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interaction design art school students to the do-it-yourself hobbyist, or even simply people who want to learn electronics, this book will help by adding a new way to design autonomous but connected devices.

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Learn all you need to know about wireless sensor networks! Protocols and Architectures for Wireless Sensor Networks provides a thorough description of the nuts and bolts of wireless sensor networks. The authors give an overview of the

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state-of-the-art, putting all the individual solutions into perspective with one and other. Numerous practical examples, case studies and illustrations demonstrate the theory, techniques and results presented. The clear chapter structure, listing

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learning objectives, outline and summarizing key points, help guide the reader expertly through the material. Protocols and Architectures for Wireless Sensor Networks: Covers architecture and communications protocols in detail

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with practical implementation examples and case studies. Provides an understanding of mutual relationships and dependencies between different protocols and architectural decisions. Offers an in-depth investigation of relevant

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protocol mechanisms. Shows which protocols are suitable for which tasks within a wireless sensor network and in which circumstances they perform efficiently. Features an extensive website with the bibliography, PowerPoint slides,

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additional exercises and worked solutions. This text provides academic researchers, graduate students in computer science, computer engineering, and electrical engineering, as well as practitioners in industry and research engineers

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with an understanding of the specific design challenges and solutions for wireless sensor networks. Check out www.wiley.com/go/wsn for accompanying course material! "I am deeply impressed by the book of

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Karl & Willig. It is by far the most complete source for wireless sensor networks...The book covers almost all topics related to sensor networks, gives an amazing number of references, and, thus, is the perfect source for students, teachers, and

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researchers. Throughout the book the reader will find high quality text, figures, formulas, comparisons etc. - all you need for a sound basis to start sensor network research." Prof. Jochen Schiller, Institute of Computer Science, Freie Universität

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Berlin

This volume presents a collection of peer-reviewed papers on several areas in the field of biomechanics, including biofabrication; biomaterials; cardiovascular biomechanics, biofluids and

hemodynamics; biomechanics of the injury/impact; biomechanics of rehabilitation; sports biomechanics; biomechanics of the skull and spine; biomechanics of the musculoskeletal system; biomechanics orofacial; orthopaedic biomechanics;

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**experimental and numerical
biomechanics; tissue engineering,
and biomedical devices. A collection
of novelties and research outcomes
presented at the 9th National
Biomechanics Congress (CNB 2021,
19-20 February, Porto, Portugal),**

this book reflects the enthusiasm and intense activity of the Portuguese biomechanical community, as well as the multidisciplinary character of the field. The National Congress of Biomechanics (CNB) is a scientific

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**meeting organized in Portugal under
the auspices of the Portuguese
Biomechanical Society (SPB).**

**A Guide for the Penetration Tester
Wireless Sensor Networks**

Electronics for You, January 2015

RFID Handbook

Electronics for You, February 2015 Insights and Innovations

Linux users can now control their homes remotely! Are you a Linux user who has ever wanted to turn on the lights in your house, or open and close the curtains, while away on holiday? Want to be able to play the

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same music in every room, controlled from your laptop or mobile phone? Do you want to do these things without an expensive off-the-shelf kit? In Smart Home Automation with Linux, Steven Goodwin will show you how a house can be fully controlled by its occupants, all using open

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source software. From appliances to kettles to curtains, control your home remotely!

The harvesting of energy from ambient energy sources to power electronic devices has been recognized as a promising solution to the issue of powering the ever-

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growing number of mobile devices around us. Key technologies in the rapidly growing field of energy harvesting focus on developing solutions to capture ambient energy surrounding the mobile devices and convert it into usable electrical energy for the purpose of recharging

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said devices. Achieving a sustainable network lifetime via battery-aware designs brings forth a new frontier for energy optimization techniques. These techniques had, in their early stages, resulted in the development of low-power hardware designs. Today, they have evolved into power-

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aware designs and even battery-aware designs. This book covers recent results in the field of rechargeable sensor networks, including technologies and protocol designs to enable harvesting energy from alternative energy sources such as vibrations, temperature

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variations, wind, solar, and biochemical energy and passive human power. Contents: Wind Energy Harvesting for Recharging Wireless Sensor Nodes: Brief Review and a Case Study (Yen Kheng Tan, Dibin Zhu and Steve Beeby) Rechargeable Sensor Networks with Magnetic

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Resonant Coupling (Liguang Xie, Yi Shi, Y Thomas Hou, Wenjing Lou, Hanif D Sherali and Huaibei Zhou)

Cross-Layer Resource Allocation in Energy-Harvesting Sensor Networks (Zhoujia Mao, C Emre Koksal and Ness B

Shroff) Energy-Harvesting Technique

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and Management for Wireless Sensor Networks (Jianhui Zhang and Xiangyang Li) Information Capacity of an AWGN Channel Powered by an Energy-Harvesting Source (R Rajesh, P K Deekshith and Vinod Sharma) Energy Harvesting in Wireless Sensor Networks (Nathalie

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*Mitton and Riaan Wolhuter)Topology
Control for Wireless Sensor
Networks and Ad Hoc Networks
(Sunil Jardosh)An Evolutionary Game
Approach for Rechargeable Sensor
Networks (Majed Haddad, Eitan
Altman, Dieter Fiems and Julien
Gaillard)Marine Sediment Energy*

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*Harvesting for Sustainable
Underwater Sensor Networks
(Baikun Li, Lei Wang and Jun-Hong
Cui) Wireless Rechargeable Sensor
Networks in the Smart Grid (Melike
Erol-Kantarci and Hussein T
Mouftah) Energy-Harvesting Methods
for Medical Devices (Pedro Dinis*

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Gaspar, Virginie Felizardo and Nuno M Garcia) Readership: Graduates, researchers, and professionals studying/dealing with networking, computer engineering, parallel computing, and electrical & electronic engineering.

Keywords:Rechargeable

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*Sensor;Energy Harvesting
Technology;Renewable Sensor
NetworksKey Features:This book
provides comprehensive coverage
from hardware design, protocol
design, to applications. This book
provides very recent results. And this
book has prominent contributorsWith*

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the increasing deterioration of global warming, energy harvesting technologies as a green source of energy are of great interest to research community. For wireless networks especially wireless sensor networks, the introduction of energy harvesting technologies can address

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the challenge of energy constraint and obtain perpetual network operation. Although there are lots of existing publications on energy harvesting, most of them are journal and conference papers, which concentrate on specific research problems and do not provide a

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comprehensive overview and prerequisite preliminaries to understand the energy harvesting technologies. To the best of our knowledge, there are only a few books which are concerned with energy harvesting technologies. One main drawback of these books are

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that they all elaborate on the hardware design of energy harvesting devices but neglect the impact of hardware design on the performance of overall networks which is also of great significance in practice. For example, the energy management subsystem should be

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designed to fulfill all the tasks without running out of energy, which is dependent on the available energy of each node and all the tasks of the whole networks. Hence, the algorithm and protocol optimization are as important as hardware design. But this was not elaborated in

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*existing publications and motivates
this book*

*Rechargeable Sensor Networks:
Technology, Theory, and Application
Advances and Current Trends in
Biomechanics*

*Getting Started for Internet of
Things with Launch Pad and*

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ESP8266

ICCAP 2021

*Fundamentals and Applications in
Contactless Smart Cards, Radio
Frequency Identification and Near-
Field Communication*

73 Amateur Radio Today