

## 433mhz

Electronics for You, June 2015  
 Fundamentals, Biomedical Applications, and Bio-Inspired Systems  
 Proceedings of Second Doctoral Symposium on Computational Intelligence  
 FCC Record  
 Healthcare Ethics and Training: Concepts, Methodologies, Tools, and Applications  
 Electronics for You, February 2015  
 Daily Graphic  
 Getting Started for Internet of Things with Launch Pad and ESP8266  
 RFID and Smart Technologies for Information Convergence  
 Environmental Engineering and Computer Application  
 Proceedings of the 2014 International Conference on Environmental Engineering and Computer Application (ICEECA 2014), Hong Kong, 25-26 December 2014  
 Market Intelligence Report: Car Security  
 Antennas for Portable Devices  
 Systems  
 Discover Your 911's Original Build Specification  
 International Conference, ICOIN 2007, Estoril, Portugal, January 23-25, 2007, Revised Selected Papers  
 Porsche 964, 993 & 996 Data Plate Code Breaker  
 UAV-Based Remote Sensing Volume 1  
 73 Amateur Radio Today  
 Channels, Propagation and Antennas for Mobile Communications  
 Wireless Sensor Networks  
 Raspberry Pi: Amazing Projects from Scratch  
 Cyber Physical Systems  
 Porsche 911 Red Book 3rd Edition  
 Issue 147837, February 18 2000  
 Specifications, Options, Production Numbers, Data Codes and More  
 Wireless Power Transfer  
 6th International Conference, FDSE 2019, Nha Trang City, Vietnam, November 27-29, 2019, Proceedings  
 Proceedings of the 5th International Conference LDIC, 2016 Bremen, Germany  
 Handbook of Research on Patient Safety and Quality Care through Health Informatics  
 Architectures, Protocols and Applications  
 Proceedings of ICACT 2020  
 Computer and Computing Technologies in Agriculture  
 Concepts, Methodologies, Tools, and Applications  
 A Comprehensive Compilation of Decisions, Reports, Public Notices, and Other Documents of the Federal Communications Commission of the United States  
 Auto-Identification and Ubiquitous Computing Applications  
 5th IFIP TC 5, SIG 5.1 International Conference, CCTA 2011, Beijing, China, October 29-31, 2011, Proceedings, Part II  
 Artificial Intelligence Techniques for Advanced Computing Applications  
 The 2013 International Conference on Cyber Science and Engineering

433mhz

Downloaded from [archive.imba.com](http://archive.imba.com) by guest

### MALIK SHEPPARD

**Electronics for You, June 2015** Lulu Press, Inc

Take hold of the ultimate reference resource on one of the world's most loved and respected sports cars. Porsche's 911, one of the most iconic sports cars in the world, is also one of the most sought-after collectible sports cars. Potential buyers, collectors, historians, and armchair enthusiasts crave all the details that, in sum, make up the 911's DNA. Porsche 911 Red Book provides all of the critical information enthusiasts need and offers it in a convenient, portable package that can be carried to concours, auctions, club events, or anywhere that quick reference to accurate data is required. From the first 911 of 1964 to today's technologically advanced, class-leading sports car, Porsche 911 Red Book offers all the data and detail desired by 911 fans. It provides an in-depth look at all the 911 versions including the Turbos, GT cars, and the limited-production specials that have collectively forged the 911 legend over the past 50-plus years.

**Fundamentals, Biomedical Applications, and Bio-Inspired Systems** IGI Global

Bringing to you the special issue 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 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...

**Proceedings of Second Doctoral Symposium on Computational Intelligence** Springer

The 2013 International Conference on Cyber Science and Engineering (CyberSE 2013) will be held on in Guangzhou, China during December 14- 15, 2013. CyberSE is an annual conference to call together researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Cyber Science and Engineering. CyberSE 2013 is sponsored by International Association for Cyber Science and Engineering, Hong Kong. CyberSE 2013 has received more than 200 submissions from 15 countries and regions. The papers come from both academia and industry reflecting the international flavor of this event in the topics of Cyber Science and Engineering. About 20 PC members and 40 International reviewers worked hard in reviewing the submissions. Based on the review reports, about 63 papers were accepted to be presented in CyberSE 2013 by the chairs. The papers were grouped into five sessions viz., 1. Computer and Information Technologies, 2. Communication Technologies, 3. Artificial Intelligence, 4. Management and Services Science, 5. Circuits and Systems. All the accepted papers have been presented on the conference, mainly by oral presentations. During the conference, many novel research works caught the attentions of the participants. The participants came to an agreement that they will participate in the CyberSE 2014 next year. All the presented papers will be published by DEStech Publications, USA. DEStech will have the proceeding indexed in ISI (Institute of Scientific Information), CPCI-S (ISTP), Google Book Search, EI and other worldwide online citation of qualified papers. We express our thanks to all the members of the General Committee Chairs, Program Committee Chairs, Technical Program Committee and Volunteers who worked so hard to prepare the conference and chair the five sessions in CyberSE 2013 . We hope that CyberSE 2013 will be successful and enjoyable to all participants. We look forward to seeing all of you next year at

the CyberSE 2014. Deyao Tan, International Association for Cyber Science and Engineering, China  
[FCC Record](#) IGI Global

3D printing is slowly making its grip in the industry making the works easier and faster. Here is 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 the buyer's guide on handheld instruments, the use of vedic mathematics in Embedded Systems,...

[Healthcare Ethics and Training: Concepts, Methodologies, Tools, and Applications](#) CRC Press

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 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-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 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 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, February 2015* CRC Press

This exceptional book introduces the reader to the principles, theory and applications of physical layer wireless/mobile communications, applicators and millimetric antennas.

[Daily Graphic](#) Cambridge University Press

Cyber Physical Systems: Architectures, Protocols and Applications helps you understand the basic principles and key supporting standards of CPS. It analyzes different CPS applications from the bottom up, extracting the common characters that form a vertical structure. It presents mobile sensing platforms and their applications toward interrelated paradigms, highlighting and briefly discussing different types of mobile sensing platforms and the functionalities they offer. It then looks at the naming, addressing, and profile services of CPS and proposes a middleware component to meet the requirements of dynamic applications and sensors/actuators deployment/configurations across different platforms. The middle chapters of the book present a context-aware sensor search, selection, and ranking model which addresses the challenge of efficiently selecting a subset of relevant sensors out of a large set of sensors with similar functionality and capabilities. The authors consider various topics in the energy management of CPS and propose a novel energy-efficient framework. They also present the fundamental networking technologies of CPS and focus on machine-to-machine communications for CPS, specifically the open technologies such as IPv6-based solutions that can be integrated into IoT and enable wireless sensor communications. In the book's final chapters, the authors bring you up to date on mobile cloud computing (MCC) research activities that enhance the capabilities of resource-constrained smart devices in CPS sensory environments. They also present a few representative CPS applications, including connected healthcare, gaming in public transport crowds, and a series of MCC-enabled emerging CPS applications. You will find that these application fields fully demonstrate the great potential of applying CPS in public life.

[Getting Started for Internet of Things with Launch Pad and ESP8266](#) Springer Science & Business Media

This book provides a comprehensive list of all build specification codes used by Porsche AG for the Porsche 911 series from model years 1989 to 2005. VIN, model type, country, exterior paint color, interior color combinations, material codes, and standard, special and Porsche Exclusive options for the 964, 993 and 996 series are provided in detail. Option codes for other Porsche models built between 1978 and 2005 are also included if known to the author. This book will not only be of great value to current Porsche owners, but to potential Porsche purchasers as well. The buyer can use this handbook to confirm the accuracy of the seller's description by comparing the data in the book to what is advertised and what is actually installed, giving the buyer a much greater advantage. Information contained within the book will also help owners and buyers overcome problems caused by missing identification labels, and will free up time currently wasted trawling the internet for answers.

[RFID and Smart Technologies for Information Convergence](#) Apress

Build your own sophisticated modular home security system using the popular Raspberry Pi board About This Book This book guides you through building a complete home security system with Raspberry Pi and helps you remotely access it from a mobile device over the Internet It covers the fundamentals of interfacing sensors and cameras with the Raspberry Pi so that you can connect it to the outside world It follows a modular approach so that you can choose the modules and features you want for your customized home security system Who This Book Is For This book is for anyone who is interested in building a modular home security system from scratch using a Raspberry Pi board, basic electronics, sensors, and simple scripts. This book is ideal for enthusiastic novice programmers, electronics hobbyists, and engineering professionals. It would be great if you have some basic soldering skills in order to build some of the interface modules. What You Will Learn Understand the concepts behind alarm systems and intrusion detection devices Connect sensors and devices to the on-board digital GPIO ports safely Monitor and control connected devices easily using Bash shell scripting Build an I/O port expander using the I2C bus and connect sensors and anti-tamper circuits Capture and store images using motion detectors and cameras Access and manage your system remotely from your mobile phone Receive intrusion alerts and images through your e-mail Build a sophisticated multi-zone alarm system In Detail The Raspberry Pi is a powerful low-cost credit-card-sized computer, which lends itself perfectly as the controller for a sophisticated home security system. Using the on-board interfaces available, the Raspberry Pi can be expanded to allow the connection of a virtually infinite number of security sensors and devices. The Raspberry Pi has the processing power and interfaces available to build a sophisticated home security system but at a fraction of the cost of commercially available systems. Building a Home Security System with Raspberry Pi starts off by showing you the Raspberry Pi and how to set up the Linux-based operating system. It then guides you through connecting switch sensors and LEDs to the native GPIO connector safely, and how to access them using simple Bash scripts. As you dive further in, you'll learn how to build an input/output expansion board using the I2C interface and power supply, allowing the connection of the large number of sensors needed for a typical home security setup. In the later chapters of the book, we'll look at more sophisticated topics such as adding cameras, remotely

accessing the system using your mobile phone, receiving intrusion alerts and images by e-mail, and more. By the end of the book, you will be well-versed with the use of Raspberry Pi to power a home-based security system that sends message alerts whenever it is triggered and will be able to build a truly sophisticated and modular home security system. You will also gain a good understanding of Raspberry Pi's ecosystem and be able to write the functions required for a security system. Style and approach This easy-to-follow guide comprises a series of projects, where every chapter introduces a new concept and at the end of the book, all these concepts are brought together to create an entire home security system. This book features clear diagrams and code every step of the way.

[Environmental Engineering and Computer Application](#) MDPI

This volume contains the set of revised selected papers presented at the 21st International Conference on Information Networking (ICOIN 2007), which was held in Estoril, Portugal, January 23-25, 2007. The conference series started under the name of Joint Workshop on Computer Communications, in 1986. At that time, it constituted a technical meeting for researchers and engineers on - ternet technologies in East Asian countries, where several technical networking issues were discussed. In 1993, the meeting was reorganized as an international conference known as ICOIN. Recent conferences were held in Sendai, Japan (2006), Jeju, Korea (2005), Pusan, Korea (2004), Jeju, Korea (2003), Jeju, Korea (2002), Beppu City, Japan (2001), Hsin-chu, Taiwan (2000), and Tokyo, Japan (1999). In 2007, for the first time since its creation, ICOIN took place outside Asia, and we were very pleased to host it in Portugal. ICOIN 2007 was organized by INESC-ID and IST/Technical University of Lisbon (Portugal) with the technical co-sponsorship of IEEE Communications Society and IEEE Portugal Section-Computer Society Chapter, in cooperation with the Order of Engineers College of Informatics Engineering (Portugal), IPSJ (Information Processing Society of Japan), KISS (Korea Information Science Society), and Lecture Notes in Computer Science (LNCS), Springer, Germany. The papers presented in this volume were selected in two stages: 1) reviewing and selection for the ICOIN program and 2) on-site presentation review by session chairs or by program committee chairs.

[Proceedings of the 2014 International Conference on Environmental Engineering and Computer Application \(ICEECA 2014\), Hong Kong, 25-26 December 2014](#) IET

Medical and health activities can greatly benefit from the effective use of health informatics. By capturing, processing, and disseminating information to the correct systems and processes, decision-making can be more successful and quality care and patient safety would see significant improvements. The Handbook of Research on Patient Safety and Quality Care through Health Informatics highlights current research and trends from both professionals and researchers on health informatics as applied to the needs of patient safety and quality care. Bringing together theory and practical approaches for patient needs, this book is essential for educators and trainers at multiple experience levels in the fields of medicine and medical informatics.

**Market Intelligence Report: Car Security** Motorbooks

"This book reports on practical problems and underlying theory related to the use of primary RFID technologies"--Provided by publisher.

[Antennas for Portable Devices](#) Springer Nature

These proceedings contain research papers presented at the 5th International Conference on Dynamics in Logistics, held in Bremen, Germany, February 2016. The conference is concerned with dynamic aspects of logistic processes and networks. The spectrum of topics reaches from modeling, planning and control of processes over supply chain management and maritime logistics to innovative technologies and robotic applications for cyber-physical production and logistic systems. The growing dynamic confronts the area of logistics with completely new challenges: it must become possible to describe, identify and analyze the process changes. Moreover, logistic processes and networks must be redesigned to be rapidly and flexibly adaptable to continuously changing conditions. The book primarily addresses researchers and practitioners from the field of industrial engineering and logistics, but it may also be beneficial for graduate students.

[Systems](#) Springer

Nikola Tesla's dream in the early 20th century of a "World Wireless System" led him to build the Wardenclyffe Tower, a prototype base station serving as an emitter for his "World Wireless System." The base station was to supply wireless electrical energy to a distant receiver. This book builds upon that dream and is a result of intensive research in powerline, machine to machine communications, and wireless power transfer globally. Wireless energy transfer or Witricity (Wireless elecTRICITY) transfers electricity instead of data. The technology is useful in cases where instantaneous or continuous energy is needed but interconnecting wires are inconvenient, hazardous, or impossible. The transfer is made through inductive coupling and electromagnetic radiation. Inductive coupling provides optimum power delivery to a receiver load if both the emitter and the receiver achieve magnetic resonance concurrently. Energy transfer systems mostly use antennas operating in their near field regions. As fossil energy sources are being depleted rapidly worldwide and oil prices soar, solar energy enhanced with wireless power transfer (WPT) has become a reasonable alternative for renewable energy and power harvesting. They are finding use in transportation, electric and hybrid vehicles, very fast trains, and the emerging field of Internet of Things. Leading experts on the subject wrote this book on wireless energy transfer technology and its applications. The publication introduces and explains the technology in great detail and provides the theory and practice of WPT through the two approaches of coupled mode theory and circuit theory. Both approaches are dependent on resonance techniques. The level of presentation is suitable for design and training. In-depth coverage is provided on near field concepts; coupled-mode theory and models; circuit models of inductive antennas; radiative and inductive wireless power transfer, wireless power relay concepts, optimization techniques for wireless power transfer systems, control of wireless power transfer systems, and wireless charging concepts; and wireless energy transfer applications in electric vehicles, embedded medical systems, and the propagation in human tissues. Each chapter covers a selected aspect of wireless energy transfer. The authors have gone to great lengths to provide worked examples in order to assist the reader in working through some of the difficult concepts and allow more understanding. The book is an excellent foundation for applying wireless energy transfer technologies in most fields, including transportation, communication, home automation, biomedical systems, and home appliances. It is a recommended read for practitioners and engineers in the power industry, students in universities, and research institutes. Honors and post graduate students in Physics, electrical/electronic engineering, and computer science will find the text easy to read and apply because of the mode of presentation.

### Discover Your 911's Original Build Specification Springer Science & Business Media

This book features high-quality research papers presented at Second Doctoral Symposium on Computational Intelligence (DoSCI-2021), organized by Institute of Engineering and Technology (IET), AKTU, Lucknow, India, on 6 March 2021. This book discusses the topics such as computational intelligence, artificial intelligence, deep learning, evolutionary algorithms, swarm intelligence, fuzzy sets and vague sets, rough set theoretic approaches, quantum-inspired computational intelligence, hybrid computational intelligence, machine learning, computer vision, soft computing, distributed computing, parallel and grid computing, cloud computing, high-performance computing, biomedical computing, decision support and decision making.

*International Conference, ICOIN 2007, Estoril, Portugal, January 23-25, 2007, Revised Selected Papers* Long-range Indoor Emitter Localization from 433MHz and 2.4GHz WLAN Received Signal Strengths An improved search method for localizing a radio emitter in a building from its signal strength is proposed and implemented. It starts from floor level determination, which samples the signal strength on each floor and determines the floor level of the emitter. Then the search is conducted iteratively on a specific floor. For each round of search, one-dimensional (1-D) or two-dimensional (2-D) signal strength is collected according to the actual structure of the floor. The signal strength data are processed to fit a 1-D curve or a 2-D surface with regression models to establish an indicator or trend, which can either locate the emitter or provide direction for the next round of search. The main contribution of this thesis is that the data processing results for 2-D signal strength data can locate the emitter or show the direction of the emitter through gradient, which is helpful to future search. Our approach has been implemented with two wireless protocols: 433MHz protocol and 2.4GHz wireless local area network (WLAN) protocol. A 433MHz module with LoRa modulation is chosen to provide long propagation distance. A 2.4GHz WLAN tester is used for close range search where 433MHz signal does not show enough attenuation spread to be effective. 433MHz implementation consists of an emitter, a radio tester and an Android APP on a smartphone. The emitter is a board with an Arduino Uno and a 433MHz transceiver. The radio tester is a board with an Arduino Uno, a 433MHz transceiver and a Bluetooth-to-serial module to communicate with a smartphone. The radio tester and the APP work together to localize the emitter. 2.4GHz WLAN implementation is composed of an emitter, which is emulated with a smartphone, a radio tester which consists of a smartphone, and a router and two Android APPs. Both phones are connected through the router and socket communication is initiated with the radio tester working as a server and the emitter working as a client. The APP on the emitter implements the client functions. The radio tester controls data acquisition process. The APP on the tester establishes the server functions and deals with received data. It compares signal strengths in different locations and finds the position that has the strongest signal strength to locate the emitter. The innovative idea of this thesis is to use 1-D and 2-D signal strength with regression models as it is convenient to provide location or unique search direction of the emitter. 1-D data is processed with linear and polynomial regressions to fit curves in order to find possible location of the emitter in either a narrow strip or a half a plane. 2-D data is processed with multiple regressions to fit contour-line surfaces in order to find either location of the emitter on the top of a surface or a unique search direction of the location of the emitter as indicated by the highest surface gradient. Our approach is compared with the centroid algorithm with an example. The centroid algorithm assumes the emitter is located in the search area and it is also easily influenced by sampling location biases. Our approach has two advantages over the centroid algorithm. The first advantage is that our approach can work even when the emitter is out of the initial search area since it searches iteratively. The second advantage is that when the emitter is in the initial search area, our approach is not influenced by sampling location biases. Wireless Power Transfer

Explore the powers of Raspberry Pi and build your very own projects right out of the box About This Book From robotics to gaming, this Learning Path will unlock your creativity! Build your own impressive IoT projects to transform your home Featuring some of Packt's very best Raspberry Pi content, this Learning Path doesn't just get you to your destination – it opens up a whole horizon of possibilities! Who This Book Is For Want new ideas for your next Raspberry Pi project? Got one lying around gathering dust? This Learning Path gets you straight into the creative dirty work of programming and playing with your pi. Whether your new to Raspberry Pi, or an experienced maker, we think this Learning Path will inspire you and get your creative juices flowing! What You Will Learn Discover an aweome range of Raspberry Pi projects Bridge the gap between software and hardware through your Pi and find out how to make an operating system interact with cameras and other hardware Find out how to use your Raspberry Pi for gaming Secure your home with this tiny computer! Make science fiction a reality – build a walking robot In Detail Looking for inspiration for your next Raspberry Pi project? Not sure where to begin? This Learning Path is the perfect place to begin, providing you with an accessible yet comprehensive journey

Related with 433mhz:

- Kumon Level M Test Answers : [click here](#)

through Raspberry Pi. Following three modules, you'll soon be confident and prepared to get creative with your microcomputer. Raspberry Pi by Example is the first module in this Learning Path – and it does exactly what it says. It doesn't just teach, it shows you how to go and build some awesome Raspberry Pi projects immediately. Build and play your own games with the Pi, build a complete Internet of Things home automation system that controls your house through Twitter... let your imagination run wild! In the next module we'll look in more depth at building a home security system. You'll be using some of the skills you devoped through the first module, but apply them to something more intricate and impressive. Using a Linux based operating system as the foundations, you'll gradually build up an entire security infrastructure adding cameras, remote controls, and even intrusion alerts! In the final module, we'll take you into the world of Raspberry Pi robotics. By the end of it, you'll have built a biped robot that can interact with its environment! This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Raspberry Pi By Example by Ashwin Pajankar and Arush Kakkar Building a Home Security System with Raspberry Pi by Matthew Pole Raspberry Pi Robotics Essentials by Richard Grimmett Style and approach It's not every day you build a home automation system. It's not every day you build a walking robot. But with this Learning Path you'll do just that. So get started and let this tiny computer expand your imagination.

[Porsche 964, 993 & 996 Data Plate Code Breaker](#) Artech House

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 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 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 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 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 undergoing projects with students and partners from various industries.

[JAV-Based Remote Sensing Volume 1](#) DEStech Publications, Inc

Wireless Sensor Networks presents a comprehensive and tightly organized compilation of chapters that surveys many of the exciting research developments taking place in this field. Chapters are written by several of the leading researchers exclusively for this book. Authors address many of the key challenges faced in the design, analysis and deployment of wireless sensor networks.

*73 Amateur Radio Today* Global Sources

The three-volume set IFIP AICT 368-370 constitutes the refereed post-conference proceedings of the 5th IFIP TC 5, SIG 5.1 International Conference on Computer and Computing Technologies in Agriculture, CCTA 2011, held in Beijing, China, in October 2011. The 189 revised papers presented were carefully selected from numerous submissions. They cover a wide range of interesting theories and applications of information technology in agriculture, including simulation models and decision-support systems for agricultural production, agricultural product quality testing, traceability and e-commerce technology, the application of information and communication technology in agriculture, and universal information service technology and service systems development in rural areas. The 68 papers included in the second volume focus on GIS, GPS, RS, and precision farming.

[Channels, Propagation and Antennas for Mobile Communications](#) John Wiley & Sons

This book is the proceedings of the 2011 International Conference on Frontiers in Computer Education (ICFCE 2011) in Sanya, China, December 1-2, 2011. The contributions can be useful for researchers, software engineers, and programmers, all interested in promoting the computer and education development. Topics covered are computing and communication technology, network management, wireless networks, telecommunication, Signal and Image Processing, Machine Learning, educational management, educational psychology, educational system, education engineering, education technology and training. The emphasis is on methods and calculi for computer science and education technology development, verification and verification tools support, experiences from doing developments, and the associated theoretical problems.