

SPRINGER BRIEFS IN APPLIED SCIENCES AND TECHNOLOGY
AUTOMOTIVE ENGINEERING: SIMULATION AND VALIDATION METHODS

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**Arun Solanki, Sandhya Tarar, Simar
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Structural Adhesive Bonding for Automotive Applications Alireza Akhavan-Safar, Ricardo J.C. Carbas, Eduardo A.S. Marques, Lucas F. M. da Silva, 2025-10-17 Structural adhesive bonding is a key approach to making cars better and safer while also reducing their environmental impact Structural Adhesive Bonding for Automotive Applications covers several aspects of bonded joints including materials selection design and manufacturing processes quality control techniques durability analysis and repair methods Practical examples support the investigations into the improvements that adhesively bonded configurations offer including enhanced resistance to dynamic fatigue increased body stiffness better crash performance compared with other conventional joining methods and greater corrosion resistance The book provides a timely compendium of specialized knowledge alongside the current state of the art which should appeal to a broad range of audiences from students who wish to further their understanding of adhesive science and bonded vehicle structures to manufacturing and design engineers who wish to gain an appreciation of new technology in adhesive joining Highlights recent developments in automotive structural adhesive bonding Explores durability challenges including fatigue creep and environmental effects Covers joint design manufacturing practices and debonding strategies Includes real world case studies from conventional and electric vehicles

The Internet of Drones Arun Solanki, Sandhya Tarar, Simar Preet Singh, Akash Tayal, 2022-11-03 In recent years drones have been integrated with the Internet of Things to offer a variety of exciting new applications Here is a detailed exploration of adapting and implementing Internet of Drones technologies in real world applications emphasizing solutions to architectural challenges and providing a clear overview of standardization and regulation implementation plans and privacy concerns The book discusses the architectures and protocols for drone communications implementing and deploying of 5G drone setups security issues deep learning techniques applied on real time footage and more It also explores some of the varied applications such as for monitoring and analysis of troposphere pollutants providing services and communications in smart cities such as for weather forecasting communications transport safety and protection for disaster relief management for agricultural crop monitoring and more

Optimal Localization of Internet of Things Nodes Sheetal N Ghorpade, Marco Zennaro, Bharat S Chaudhari, 2021-11-16 This book is a practical resource for designing Internet of Things IoT networks and implementing IoT applications from the localization perspective With the emergence of IoT machine to machine communication Industrial IoT and other societal applications many applications require knowledge of the exact location of mobile IoT nodes in real time As the IoT nodes have computational and energy limitations it is a crucial research challenge to optimize the network's performance with the highest localization accuracy Many researchers are working towards such localization problems However there is no single book available for the detailed study on IoT node localization This book provides one stop multidisciplinary solutions for IoT node localization design requirements challenges constraints available techniques comparison related applications and future directions

Special features included are theory supported by algorithmic development treatment of optimization techniques and applications

IT Application for Sustainable Living 2 Tajul Adli Abdul Razak,Ahmad Kamal Ismail,Andreas Öchsner,2025-09-30 This book collectively aims to enhance operational efficiency reduce environmental impact and drive technological progress across industries In today s fast paced and competitive business landscape industries are grappling with challenges in process optimization energy efficiency and transportation Effective management of these areas is essential for boosting productivity while minimizing waste and fostering sustainable growth for future business This collection of research and development projects highlights innovative solutions across various sectors including electric vehicle performance optimization smart agriculture healthcare monitoring and industrial maintenance Key focuses include electric vehicle motor and battery technology advancements driver safety systems IoT based vehicle surveillance and energy efficient charging solutions Additionally cutting edge applications like Li Fi for vehicle to vehicle data transfer and AI driven auto sorting systems demonstrate the integration of modern technology to address real world challenges

Advanced Applications of Blockchain Technology Shiho Kim,Ganesh Chandra Deka,2019-09-24 This contributed volume discusses diverse topics to demystify the rapidly emerging and evolving blockchain technology the emergence of integrated platforms and hosted third party tools and the development of decentralized applications for various business domains It presents various applications that are helpful for research scholars and scientists who are working toward identifying and pinpointing the potential of as well as the hindrances to this technology

Applications of Artificial Intelligence Techniques in Industry 4.0 Aydin Azizi,2018-09-25 This book is to presents and evaluates a way of modelling and optimizing nonlinear RFID Network Planning RNP problems using artificial intelligence techniques It uses Artificial Neural Network models ANN to bind together the computational artificial intelligence algorithm with knowledge representation an efficient artificial intelligence paradigm to model and optimize RFID networks This effort leads to proposing a novel artificial intelligence algorithm which has been named hybrid artificial intelligence optimization technique to perform optimization of RNP as a hard learning problem This hybrid optimization technique consists of two different optimization phases First phase is optimizing RNP by Redundant Antenna Elimination RAE algorithm and the second phase which completes RNP optimization process is Ring Probabilistic Logic Neural Networks RPLNN The hybrid paradigm is explored using a flexible manufacturing system FMS and the results are compared with well known evolutionary optimization technique namely Genetic Algorithm GA to demonstrate the feasibility of the proposed architecture successfully

Policy Implications of Autonomous Vehicles ,2020-07-24 Policy Implications of Autonomous Vehicles Volume Five in the Advances in Transport Policy and Planning series systematically reviews policy relevant implications of AVs and the associated possible policy responses and discusses future avenues for policy making and research It comprises 13 chapters discussing a short term implications of AVs for traffic flow human automated bus systems interaction cyber security and safety cybersecurity certification and auditing non commuting

journeys b long term implications of AVs for carbon dioxide CO2 emissions and energy health and well being data protection ethics governance c implications of AVs for the maritime industry and urban deliveries and d overall synthesis and conclusions Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Transport Policy and Planning series Updated release includes the latest information on the policy implications of autonomous vehicles IT Applications for Sustainable Living Muhamad Husaini Abu Bakar,Tajul Adli Abdul Razak,Andreas Öchsner,2023-08-27 The Internet of Things IoT has emerged as a new paradigm that connects the physical world with the digital world It is a network of interconnected devices sensors and objects that can communicate with each other collect and exchange data and perform various tasks without human intervention The IoT has the potential to revolutionize various industries such as healthcare transportation manufacturing and agriculture by enabling real time monitoring automation and optimization of processes This book is a collection of research manuscripts that explores the latest developments in smart technologies for sustainable living with reference to the IoT landscape including its architecture applications and challenges The research covers a wide range of topics including character segmentation recognition and classification deep learning smart home earthquake early warning system wireless sensor network embedded RFID system and many more It also discusses various IoT platforms protocols and standards that are being developed to enable seamless integration and interoperability of IoT devices and services The research book aims to become a valuable resource for researchers practitioners and policymakers interested in smart technologies and sustainable living **Processing of Biomass Waste** Angana Sarkar,Ulla Lassi,2024-04-25 Processing of Biomass Waste Technological Upgradation and Advancement focuses on the exploitation of various waste management technologies and their associated process microbial chemical physical as tools to simultaneously generate value during treatment processes including degradation detoxification stabilization toxic and hazardous contaminants The book explores wastes as a veritable resource for wealth creation with particular focus on resources recoverable from diverse wastes using special intervention of biotechnological tools Other sections highlight recent technologies of waste bioprocessing in biorefinery approaches and enlighten on different approaches The book encompasses advanced and updated information as well as future directions for young researchers and scientists who are working in the field of waste management with a focus on sustainable value generation Includes cutting edge technologies in waste bioprocessing Focuses on applications of molecular biotechnological tools in waste bioprocessing Provides natural and eco friendly solutions to deal with the problem of pollution aiming value generation Details underlying mechanisms of waste bioprocessing approaches that cover microbes for the simultaneous value generation and removal of emerging contaminants Includes field studies on the application of biorefinery approach for eco restoration of contaminated sites Presents recent advances and challenges in waste bioprocessing research and applications for sustainable development Proceedings of Tenth International Congress on Information and Communication Technology Xin-She Yang,R. Simon

Sherratt,Nilanjan Dey,Amit Joshi,2025-09-26 This book gathers selected high quality research papers presented at the Tenth International Congress on Information and Communication Technology ICICT 2025 held in London on February 18 21 2025 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of Things IoT and e mining Written by respected experts and researchers working on ICT the book offers an asset for young researchers involved in advanced studies The work is presented in ten volumes

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