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Nota di contenuto	Preface; General Committee and Advisors; Contents; Part I Communication; 1 RWA: Comparison of Genetic Algorithms and Simulated Annealing in Dynamic Traffic; Abstract; 1.1...Introduction; 1.2...Description of the RWA Problem; 1.3...Model Description; 1.4 ...Description of the Algorithms; 1.4.1 Network Demand; 1.4.2 Simulated Annealing Algorithm; 1.4.3 Genetic Algorithms; 1.5 ...Comparison Scenario; 1.6...Results; 1.7...Conclusions; References; 2 Route Optimization in Proxy Mobile IPv6 Test-Bed via RSSI APPs; Abstract; 2.1...Introduction; 2.2...Related Research; 2.3...Test-Bed Setup 2.3.1 Software and Hardware Requirement2.3.2 Kernel Setup and

Installation; 2.3.3 Access Point Cisco Aironet 1200; 2.4...Localized Routing Algorithm; 2.5...Result and Discussion; 2.6...Conclusion; 2.7 ...Future Work; References; 3 Polytetrafluoroethylene Glass Microfiber Reinforced Slotted Patch Antenna for Satellite Band Applications; Abstract; 3.1...Introduction; 3.2...Antenna Design, Architecture and Optimization; 3.3...Properties and Performance Analysis of Different Dielectrics Substrate; 3.4...Conclusion; References; 4 2.4 GHz Circularly Polarized Microstrip Antenna for RFID Application; Abstract 4.1...Introduction4.2...Antenna Design; 4.3...Result; 4.3.1 S11 Result; 4.3.2 Directivity Result; 4.3.3 Axial Ratio Result; 4.4...Conclusion; Acknowledgments; References; 5 On Understanding Centrality in Directed Citation Graph; Abstract; 5.1...Introduction; 5.2...Related Work; 5.3...Performance Metric; 5.3.1 Betweenness and Node Degree Centrality; 5.4...The Experiment; 5.5...Results; 5.6...Conclusion; References; 6 Channel Capacity of Indoor MIMO Systems in the Presence of Spatial Diversity; Abstract; 6.1...Introduction; 6.2...Channel Model and Channel Capacity; 6.2.1 MIMO Channel Model for LOS Scenario 6.2.2 System Configuration6.2.3 MIMO Channel Capacity; 6.3...Results and Discussion; 6.3.1 Typical and Spatial Diversity; 6.3.2 MIMO System with Spatial Diversity Technique; 6.3.3 Eigenvalue Analysis and MIMO Channel Correlation Coefficient; 6.4...Conclusion; References; 7 Design of Multi-band Antenna for Wireless MIMO Communication Systems; Abstract; 7.1...Introduction; 7.2...Antenna Design; 7.2.1 C-Shaped Slot Antenna [Design A1(i)]; 7.2.2 Three-Shaped Slot Antenna [Design A1 (ii)]; 7.2.3 Pumpkin-Shaped Slot Antenna [Design A1(iii)]; 7.3 ...Simulation and Measurement Results; 7.4...Conclusion; References 8 Design of Linear Polarization Antenna for Wireless MIMO ApplicationAbstract; 8.1...Introduction; 8.2...Design Specification; 8.2.1 Antenna Design Process; 8.2.2 Rectangular Patch with Slots; 8.2.3 Result and Discussion; 8.3...Conclusion; References; 9 The Effect of IV Characteristics on Optical Control of SDR Si IMPATT Diode; Abstract; 9.1...Introduction; 9.2...Design Structure; 9.3...Simulation Result and Discussion; 9.3.1 Dark Current Condition; 9.3.2 Light Incident Condition; 9.4...Conclusion; Acknowledgments; References 10 Variable Intrinsic Region in CMOS PIN Photodiode for I--V Characteristic Analysis

Sommario/riassunto

This book covers diverse aspects of advanced computer and communication engineering, focusing specifically on industrial and manufacturing theory and applications of electronics, communications, computing, and information technology. Experts in research, industry, and academia present the latest developments in technology, describe applications involving cutting-edge communication and computer systems, and explore likely future directions. In addition, access is offered to numerous new algorithms that assist in solving computer and communication engineering problems. The book is based on presentations delivered at ICOCOE 2014, the 1st International Conference on Communication and Computer Engineering. It will appeal to a wide range of professionals in the field, including telecommunication engineers, computer engineers and scientists, researchers, academics, and students.