

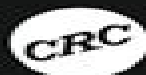


WIRELESS COMMUNICATION WITH ARTIFICIAL INTELLIGENCE

Emerging Trends and Applications

Edited by

Anuj Singal • Sandeep Kumar
Sajjan Singh • Ashish Kr. Luhach



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Artificial Intelligence In Wireless Communications

Artificial Intelligence In Wireless Communications

**Thomas Warren Rondeau, Charles W.
Bostian**



Artificial Intelligence In Wireless Communications Artificial Intelligence In Wireless Communications:

Artificial Intelligence for Wireless Communication Systems Samarendra Nath Sur, Agbotiname Lucky Imoize, Ankan Bhattacharya, Debdatta Kandar, Jyoti Sekhar Banerjee, 2024-10-16 The text provides a comprehensive study of the application of advanced artificial intelligence AI in next generation wireless communications with a focus on theory standardization and core development It further highlights AI enabled intelligent architecture for sixth generation 6G networks to realize smart resource management automatic network adjustment and intelligent service layers The book covers artificially assisted non orthogonal multiple access schemes for 6G communication This book Discusses the use of AI in various aspects of wireless communications including channel modeling signal detection channel coding design and resource management Explores technical challenges in the ubiquitous fifth generation 5G wireless networks and the prospects of introducing artificial intelligence based techniques in the envisioned 6G wireless networks Presents potential issues in AI enabled approaches in wireless communications Covers AI enabled energy efficiency optimization and cross layer optimization in the next generation wireless networks Explains artificially empowered security and privacy schemes in next generation wireless networks and next generation mobile management It is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering and computer engineering

Artificial Intelligence in Wireless Communications Thomas Warren Rondeau, Charles W. Bostian, 2009 This cutting edge resource offers practical overview of cognitive radio a paradigm for wireless communications in which a network or a wireless node changes its transmission or reception parameters The alteration of parameters is based on the active monitoring of several factors in the external and internal radio environment This book offers a detailed description of cognitive radio and its individual parts Practitioners learn how the basic processing elements and their capabilities are implemented as modular components Moreover the book explains how each component can be developed and tested independently before integration with the rest of the engine Practitioners discover how cognitive radio uses artificial intelligence to achieve radio optimization The book also provides an in depth working example of the developed cognitive engine and an experimental scenario to help engineers understand its performance and behavior Wireless

Communication with Artificial Intelligence Anuj Singal, Sandeep Kumar, Sajjan Singh, Ashish Kr. Luhach, 2022-09-16 This reference text discusses advances in wireless communication design challenges and future research directions to design reliable wireless communication The text discusses emerging technologies including wireless sensor networks Internet of Things IoT cloud computing mm Wave Massive MIMO cognitive radios CR visible light communication VLC wireless optical communication signal processing and channel modeling The text covers artificial intelligence based applications in wireless communication machine learning techniques and challenges in wireless sensor networks and deep learning for channel and bandwidth estimation during optical wireless communication The text will be useful for senior undergraduate graduate

students and professionals in the fields of electrical engineering and electronics and communication engineering

Applications of Artificial Intelligence in Wireless Communication Systems Kumar, Karan, 2023-06-05 The application of artificial intelligence technology to 5G wireless communications is now appropriate to address the design of optimized physical layers complicated decision making network management and resource optimization tasks within networks In exploring 5G wireless technologies and communication systems artificial intelligence is a powerful tool and a research topic with numerous potential fields of application that require further study Applications of Artificial Intelligence in Wireless Communication Systems explores the applications of artificial intelligence for the optimization of wireless communication systems including channel models channel state estimation beamforming codebook design signal processing and more Covering key topics such as neural networks deep learning and wireless systems this reference work is ideal for computer scientists industry professionals researchers academicians scholars practitioners instructors and students *Wireless AI* K. J. Ray Liu, Beibei Wang, 2019-10-03 An innovative and groundbreaking text explaining how wireless AI can determine position sense motion and vital signs and identify events and people **Enabling Technologies for Next Generation Wireless Communications** Mohammed Usman, Mohd Wajid, Mohd Dilshad Ansari, 2020-12-28 Enabling Technologies for Next Generation Wireless Communications provides up to date information on emerging trends in wireless systems their enabling technologies and their evolving application paradigms This book includes the latest trends and developments toward next generation wireless communications It highlights the requirements of next generation wireless systems limitations of existing technologies in delivering those requirements and the need to develop radical new technologies It focuses on bringing together information on various technological developments that are enablers vital to fulfilling the requirements of future wireless communication systems and their applications Topics discussed include spectrum issues network planning signal processing transmitter receiver antenna technologies channel coding security and application of machine learning and deep learning for wireless communication systems The book also provides information on enabling business models for future wireless systems This book is useful as a resource for researchers and practitioners worldwide including industry practitioners technologists policy decision makers academicians and graduate students **Optical and Wireless Communications** Sushank Chaudhary, Amir Parnianifard, Abhishek Sharma, 2025-05-09 This edited volume brings together diverse perspectives on machine learning and AI applications in optical and wireless systems offering a structured and comprehensive resource for researchers and professionals It explores advancements driven by 5G IoT and the increasing demand for high speed reliable communication Covering optical fiber systems wireless networks and AI driven optimizations the book provides insights into real world applications impacting telecommunications healthcare and transportation The contributing authors discuss key topics such as signal processing techniques optimization algorithms and deep learning models applied to optical and wireless networks The volume also highlights emerging challenges security concerns and

future trends in AI powered communication systems This resource is essential for professionals in electrical and computer engineering telecommunications and computer science helping them stay ahead in these rapidly evolving technologies

Machine Learning for Future Wireless Communications Fa-Long Luo,2020-02-10 A comprehensive review to the theory application and research of machine learning for future wireless communications In one single volume Machine Learning for Future Wireless Communications provides a comprehensive and highly accessible treatment to the theory applications and current research developments to the technology aspects related to machine learning for wireless communications and networks The technology development of machine learning for wireless communications has grown explosively and is one of the biggest trends in related academic research and industry communities Deep neural networks based machine learning technology is a promising tool to attack the big challenge in wireless communications and networks imposed by the increasing demands in terms of capacity coverage latency efficiency flexibility compatibility quality of experience and silicon convergence The author a noted expert on the topic covers a wide range of topics including system architecture and optimization physical layer and cross layer processing air interface and protocol design beamforming and antenna configuration network coding and slicing cell acquisition and handover scheduling and rate adaption radio access control smart proactive caching and adaptive resource allocations Uniquely organized into three categories Spectrum Intelligence Transmission Intelligence and Network Intelligence this important resource Offers a comprehensive review of the theory applications and current developments of machine learning for wireless communications and networks Covers a range of topics from architecture and optimization to adaptive resource allocations Reviews state of the art machine learning based solutions for network coverage Includes an overview of the applications of machine learning algorithms in future wireless networks Explores flexible backhaul and front haul cross layer optimization and coding full duplex radio digital front end DFE and radio frequency RF processing Written for professional engineers researchers scientists manufacturers network operators software developers and graduate students Machine Learning for Future Wireless Communications presents in 21 chapters a comprehensive review of the topic authored by an expert in the field

Network Slicing for Future Wireless Communication Wanqing Guan,Haijun Zhang,2024-05-23 This book comprehensively discusses the development application and challenges of network slicing technology in wireless communications Starting with the basic concept and enabling technologies of network slicing this book introduces how to integrate AI Artificial Intelligence technology into the end to end deployment resource allocation and performance enhancement for multi tenant slicing An in depth exploration of managing multi domain slices deployed in the federated infrastructure networks is presented including on demand cooperation among multiple infrastructure networks distinct slice deployment hierarchical slice orchestration and fast slice adaption As a guide to leveraging AI to enhance traffic performance of multi tenant slicing and customize resource slicing for industrial scenarios this book provides insights modeling applications and research issues A holistic perspective on prominent role of network

slicing in managing wireless network resources is provided as well Overall network slicing as a key technology of wireless networks enables to satisfy differentiated service demands of multiple tenants from vertical industries with the same shared physical infrastructure network As future wireless networks are expected to facilitate the evolution of vertical industries various vertical enterprises as tenants require an intelligent network slicing paradigm to provide highly customizable services AI based management system for network slicing excel at deploying slices rapidly allocating resources efficiently and avoiding service quality degradation With the increasing diversity of service demands and complexity of communication environment incorporating AI into network slicing is a necessity for improving flexibility and automation of resource management This book targets advanced level students in information and communication sciences as a secondary textbook Researchers and industry professionals working in various areas such as wireless communication systems network management and orchestration resource allocation and AI enabled wireless networks will also find this book useful as reference book

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