

1. Record Nr.	UNINA9910460613003321
Titolo	Literature and human rights : the law, the language and the limitations of human rights discourse // edited by Ian Ward
Pubbl/distr/stampa	Berlin ; ; Boston : , : De Gruyter, , [2015] ©2015
ISBN	3-11-036855-2 3-11-039263-1
Descrizione fisica	1 online resource (342 p.)
Collana	Law & literature ; ; Volume 9
Classificazione	EC 2460
Disciplina	809/.933581
Soggetti	Human rights in literature Law and literature Human rights - Language Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- Contents -- Literature and Human Rights: Interdisciplinary Reflections on the Law, the Language and the Limitations of Human Rights Discourse -- Empathy, Literature and Human Rights: The Case of Elliot Perlman, The Street Sweeper / Porsdam, Helle -- Privacy, Blighted Lives, and a Blindspot in British Law / Mullender, Richard -- A Squeamishness about Existing: Fernando Pessoa's Quiet Rejection of the Human in The Book of Disquiet / Aristodemou, Maria -- I and Another: Rethinking the Subject of Human Rights with Dostoyevsky, Bakhtin and Simondon / Baldissone, Riccardo -- Dehumanizing the Enemy: How to Avoid Human Rights / Carpi, Daniela -- Am I not a man and a brother? / Bellman, Patrizia Nerozzi -- Mental Illness and Human Rights in Patrick McGrath's Asylum / Battisti, Chiara -- The Role of Forensics in Human Rights Discourse: Kathy Reichs's Crime Fiction and the Rights of the Dead / Fiorato, Sidia -- Rumpole and the Rights of Accused Terrorists / Doerr, Roxanne Barbara -- Reality, Theatre and Human Rights / Dente, Carla -- The Rights and Wrongs of Marriage: Article 16.2 UDHR and the Case of Edith Dombey / Ward, Ian -- Manju Kapur's Difficult Daughters and the

Cause of Female Literacy in India / Carbone, Paola -- The Trial of Jomo Kenyatta, by Montagu Slater: Oral Tradition and Fundamental Rights in the Trial / Lanzoni, Lisa -- 'n Droë Wit Seisoen in die Stormkaap: André Brink and the Fundamental Rights of the Afrikaners in Apartheid South Africa / Nicolini, Matteo -- The Definition of "Linguistic Minority" / Tomaselli, Alessandra / Panzeri, Lino -- Rights of Humans/Rights of Nature: The Language of Environmental Rights in UN Documents / Adami, Valentina -- On Crimes, Punishments, and Words: Legal and Language Issues in Cesare Beccaria's Works / Logaldo, Mara -- Dignity and Disgrace in Law and Literature / Gaakeer, Jeanne -- Contributors -- Index

Sommario/riassunto

The idea of human rights is not new. But the importance of taking rights seriously has never been more urgent. The eighteen essays which comprise Literature and Human Rights are written as a contribution to this vital debate. Each moreover is written in the spirit of interdisciplinarity, reaching across the myriad constitutive disciplines of law, literature and the humanities in order to present an array of alternative perspectives on the nature and meaning of human rights in the modern world. The taking of human rights seriously, it will be suggested, depends just as much on taking seriously the idea of the human as it does the idea of rights.

2. Record Nr.	UNINA9910808827703321
Autore	Rehman Masood
Titolo	LTE communications and networks : femtocells and antenna design challenges // edited by Masood Ur Rehman, Ghazanfar Ali Safdar
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, , 2018 [Piscataway, New Jersey] : , : IEEE Xplore, , [2018]
ISBN	1-119-38525-3 1-119-38524-5 1-119-38527-X
Edizione	[First edition.]
Descrizione fisica	1 online resource (360 pgaes)
Disciplina	621.3845/6
Soggetti	Long-Term Evolution (Telecommunications) Femtocells Antennas (Electronics) - Design and construction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	List of Contributors xv -- Preface xvi -- 1 Introduction 1 /Ghazanfar Ali Safdar and Masood Ur Rehman -- 1.1 Evolution of Wireless and Cellular Communication 2 -- 1.1.1 1 G 3 -- 1.1.2 2 G 3 -- 1.1.3 2.5 G 3 -- 1.1.4 2.75 G 4 -- 1.1.5 3 G 4 -- 1.1.6 3.5 G 4 -- 1.1.7 4 G/LTE 5 -- 1.2 LTE Architecture 5 -- 1.2.1 Communications Perspective Challenges in LTE Networks 8 -- 1.2.1.1 Signalling System 8 -- 1.2.1.2 Backward Compatibility 9 -- 1.2.1.3 BS Efficiency 9 -- 1.2.2 LTE Radio Frame 10 -- 1.3 LTE Antennas 11 -- 1.4 LTE Applications 11 -- 1.4.1 Communications 11 -- 1.4.2 Public Safety 12 -- 1.4.3 Device?[to?] Device Communications 12 -- 1.4.4 Video Streaming 12 -- 1.4.5 Voice over LTE (VoLTE) 12 -- 1.4.6 Internet of Things 13 -- 1.4.7 Wearable Systems 13 -- 1.4.8 Cloud Computing 13 -- 1.5 Book Organization 14 -- References 16 -- Part I LTE Femtocells 19 -- 2 LTE Femtocells 21 /Ghazanfar Ali Safdar -- 2.1 Introduction 21 -- 2.1.1 Cross?[Tier Interference 22 -- 2.1.2 Co?[Tier Interference 24 -- 2.1.3 Downlink Interference Modelling 24 -- 2.1.4 Uplink Interference Modelling 25 -- 2.2 Platform for Femtocell Deployment 26 -- 2.3 LTE Architecture Overview 26 -- 2.3.1 LTE Downlink Transmission 27 -- 2.3.2 LTE

Uplink Transmission 27 -- 2.4 LTE Femtocell Interference Analysis 28 -- 2.4.1 Scenario 1: Cross-Tier Interference Analysis 28 -- 2.4.2 Scenario 2: Effects of Femtocell Access Mode Deployment 28 -- 2.4.3 Scenario 3: Co-Tier Interference Analysis 29 -- 2.4.4 Scenario 4: Effects of Varying FAP Transmit Power Levels on MUEs 29 -- 2.5 Interference Mitigation: Current State of the Art 31 -- 2.5.1 Spectrum Access/Frequency Assignment 31 -- 2.5.2 Power Control 32 -- 2.5.3 Antenna Schemes 33 -- 2.6 Cognitive Femtocells: A Smart Solution to a Complex Problem 33 -- 2.7 Summary 35 -- References 36 -- 3 Interference Mitigation in Cognitive Radio-Based LTE Femtocells 38 /Ghazanfar Ali Safdar -- 3.1 Introduction 39 -- 3.2 Femtocells 41 -- 3.2.1 Femtocells - Interference versus Deployment 43. 3.2.2 Femtocells - Typical Interference Mitigation Techniques 46 -- 3.2.2.1 Spectrum Access/Frequency Assignment Schemes 46 -- 3.2.2.2 Power Control (PC) Schemes 46 -- 3.2.2.3 Antenna Schemes 48 -- 3.3 Interference Mitigation in Femtocells using Cognitive Radio 49 -- 3.3.1 Cognitive Interference Mitigation 51 -- 3.3.1.1 Cognitive Interference Mitigation - PC 52 -- 3.3.1.2 Cognitive Interference Mitigation - Spectrum Access 54 -- 3.3.1.3 Cognitive Interference Mitigation - Antenna Schemes 64 -- 3.3.1.4 Cognitive Interference Mitigation - Joint Schemes 66 -- 3.3.2 Cognitive Interference Mitigation versus Conventional Interference Mitigation 70 -- 3.4 Summary 74 -- References 75 -- 4 Coverage Area-Based Power Control for Interference Management in LTE Femtocells 84 /Ghazanfar Ali Safdar -- 4.1 Introduction 85 -- 4.2 Coverage Radius Based Power Control Scheme (PS) 88 -- 4.2.1 Radius Limit Setting 89 -- 4.2.2 Initial Coverage Radius 89 -- 4.2.3 Self-Update 89 -- 4.2.4 Final Radius 89 -- 4.3 System Model 90 -- 4.4 Performance Analysis 92 -- 4.4.1 Results and Discussion 93 -- 4.4.1.1 SINR Cross-Tier (Single Cell) 93 -- 4.4.1.2 SINR Co-Tier (Single Cell) 94 -- 4.4.1.3 Downlink Throughput (Single Cell) 95 -- 4.4.1.4 Co-Tier and Cross-Tier SINR (Single Cell versus Multicell) 96 -- 4.4.1.5 Droppage in SINR (Single Cell versus Multicell) 97 -- 4.4.1.6 Coverage Area Bounds and Impact on SINR (Single Cell versus Multicell) 99 -- 4.5 Summary 100 -- References 101 -- 5 Energy Management in LTE Femtocells 104 /Kapil Kanwal, Ghazanfar Ali Safdar, Masood Ur Rehman and Xiaodong Yang -- 5.1 Introduction 105 -- 5.2 Architecture of LTE Networks 105 -- 5.2.1 Communications Perspective Challenges in LTE Networks 106 -- 5.2.1.1 Signalling System 106 -- 5.2.1.2 Backward Compatibility 107 -- 5.2.1.3 BS Efficiency 107 -- 5.2.2 Importance of Energy Management in LTE Networks 108 -- 5.3 Classification of ES Schemes 108 -- 5.3.1 Static Power Consumption 109 -- 5.3.2 Dynamic Power Consumption 109. 5.4 Energy Efficient Resource Allocation 113 -- 5.4.1 Hybrid FBS and MBS Based Schemes 113 -- 5.4.2 Link Adaptation Schemes 114 -- 5.4.3 Cross Layer Resource Allocation Schemes 115 -- 5.4.4 MBSFN Resource Allocation Scheme 115 -- 5.5 Bandwidth Expansion Schemes 117 -- 5.5.1 CoMP Based Coverage Expansion 117 -- 5.5.2 Time Compression (TCoM) Scheme 118 -- 5.5.3 Bandwidth Expansion Mode (BEM) Scheme 119 -- 5.5.4 Component Carrier Based Schemes 121 -- 5.5.5 Scheduling Based Schemes 122 -- 5.6 Load Balancing Schemes 123 -- 5.6.1 Distance Aware Schemes 123 -- 5.6.2 Coverage Expansion Based Schemes 125 -- 5.6.3 Distributed Schemes 125 -- 5.6.4 Shared Relay Based Schemes 127 -- 5.6.5 CRN Adopted Switching Off of a BS 128 -- 5.6.6 Reduced Early Handover (REHO) Scheme 129 -- 5.7 Comparative Analysis 130 -- 5.8 Open Research Issues 135 -- 5.9 Summary 139 -- References 140 -- 6 Spectrum Sensing Mechanisms in Cognitive Radio Based LTE Femtocells 150

/Tazeen S. Syed and Ghazanfar Ali Safdar -- 6.1 Fundamentals of Signal Processing 151 -- 6.1.1 Channel Model 151 -- 6.1.1.1 Additive Gaussian Noise Channel 151 -- 6.1.1.2 Linear Filter Channel 152 -- 6.1.1.3 Band Limited Channel 153 -- 6.1.2 Modulation Technique 153 -- 6.1.3 Error Probability 154 -- 6.2 Spectrum Sensing Techniques 155 -- 6.2.1 Primary Transmitter Detection 155 -- 6.2.1.1 Energy Detector 156 -- 6.2.1.2 Matched Filter Detection 158 -- 6.2.1.3 Cyclostationary Feature Detection 159 -- 6.2.1.4 Waveform Detection 160 -- 6.2.1.5 Wavelet Detection 161 -- 6.2.1.6 Hybrid Sensing 162 -- 6.2.1.7 Multi-Taper Spectrum Sensing 163 -- 6.2.2 Collaborative/Cooperative Detection 163 -- 6.2.3 Interference Temperature Detection 166 -- 6.2.4 Primary Receiver Detection 166 -- 6.3 History Assisted Spectrum Sensing 166 -- 6.4 Model-Based and Statistics-Based Spectrum Sensing Classification 167 -- 6.5 Challenges and Issues 172 -- 6.6 Summary 176 -- References 177 -- Part II Antennas for LTE Femtocells 185 -- 7 Antenna Consideration for LTE Femtocells 187 /Masood Ur Rehman. 7.1 Antenna Fundamentals 187 -- 7.1.1 Input Impedance and Matching 188 -- 7.1.2 Bandwidth 189 -- 7.1.3 Radiation Pattern 190 -- 7.1.4 Directivity and Gain 191 -- 7.1.5 Efficiency 193 -- 7.1.6 Polarization 193 -- 7.2 Antenna Requirements for LTE Femtocells 196 -- 7.2.1 Frequency Bands 197 -- 7.2.2 Form Factor and Size Limitation 201 -- 7.2.3 Impedance Matching, Directivity, Gain and Efficiency 201 -- 7.2.4 Directionality 202 -- 7.2.5 Polarization 203 -- 7.2.6 Human Body Effects and Specific Absorption Rate (SAR) 204 -- 7.2.7 Multiple Input Multiple Output (MIMO) 205 -- References 206 -- 8 Multiband Antennas for LTE Femtocells 209 /Masood Ur Rehman and Xiaodong Yang -- 8.1 Fundamentals of Multiband Antennas 209 -- 8.1.1 Multiband Techniques 210 -- 8.1.1.1 Higher Order Resonances 210 -- 8.1.1.2 Multiple Resonant Structures 211 -- 8.2 Types of Multiband Antennas 211 -- 8.3 Multiband Antenna Design: Case Studies 214 -- 8.3.1 Multi-Slot Antenna 215 -- 8.3.1.1 Antenna Geometry 215 -- 8.3.1.2 Antenna Performance Evaluation 215 -- 8.3.2 Patch-Loop Combination Antenna 220 -- 8.3.2.1 Antenna Configuration 220 -- 8.3.2.2 Antenna Performance 220 -- 8.4 Open Research Issues 227 -- References 227 -- 9 Reconfigurable Antennas for LTE Femtocells 230 /Masood Ur Rehman and Waqas Farooq -- 9.1 Fundamentals of Reconfigurable Antennas 230 -- 9.1.1 Types of Reconfigurable Antennas 231 -- 9.1.1.1 Use of Switches 232 -- 9.1.1.2 Structural and Mechanical Changes 232 -- 9.1.1.3 Material Changes 234 -- 9.2 Realization of Reconfigurable Antennas 234 -- 9.3 Rectangular Patch Reconfigurable LTE Femtocell Antenna 237 -- 9.3.1 Design Conception 237 -- 9.3.2 Frequency Reconfiguration Mode 239 -- 9.3.3 Antenna Performance Evaluation 240 -- 9.4 Circular Patch Reconfigurable LTE Femtocell Antenna 246 -- 9.4.1 Frequency Reconfiguration Mode 248 -- 9.4.2 Antenna Performance Evaluation 248 -- 9.5 Open Research Issues 253 -- References 254 -- 10 Multimode Antennas for LTE Femtocells 259 /Oluyemi Peter Falade, Xiaodong Chen and Masood Ur Rehman. 10.1 Multimode Antennas: Fundamentals and Types 260 -- 10.2 Design of a Compact Multimode LTE Femtocell Antenna for Handheld Devices 261 -- 10.2.1 Numerical Analysis 263 -- 10.2.2 Experimental Investigation 266 -- 10.3 Design of a Multifunctional Compact Antenna for LTE Femtocells and GNSS Systems 268 -- 10.3.1 Numerical Analysis 273 -- 10.3.2 Experimental Investigation 279 -- 10.4 Summary 284 -- 10.5 Open Challenges and Issues 284 -- References 284 -- 11 Human Body Effects on LTE Femtocell Antennas 289 /Masood Ur Rehman and Qammer Hussain Abbasi -- 11.1 Interaction of the Human Body with Antennas 290 -- 11.2 Numerical Modelling of the Human Body 291 --

11.2.1 Evaluation and Comparison of Numerical Models of Human Body 294 -- 11.2.1.1 On?Body Transmission 294 -- 11.2.1.2 Effects on Antenna Radiation Pattern 297 -- 11.2.1.3 Electric Field Distribution 299 -- 11.2.1.4 Specific Absorption Rate (SAR) 300 -- 11.3 Evaluation of Human Body Effects on LTE Femtocell Antennas 305 -- 11.3.1 On?Body Antenna Placement 308 -- 11.3.2 Antenna?Body Separation 310 -- 11.3.3 On?Body LTE Channel Characterization 312 -- 11.3.4 On?Off Body LTE Channel Characterization 313 -- 11.3.5 Body?to?Body LTE Channel Characterization 315 -- 11.4 Open Research Issues 316 -- References 317 -- 12 The Road Ahead for LTE Femtocells 322 /Masood Ur Rehman and Ghazanfar Ali Safdar -- 12.1 Future Prospects and Challenges 323 -- 12.1.1 Spectrum Sharing 324 -- 12.1.2 Intelligent/Efficient Spectrum Sensing Schemes 324 -- 12.1.3 Primary/Secondary User Issue 325 -- 12.1.4 Energy Saving 325 -- 12.1.5 Security 326 -- 12.1.6 Pilot Power/Coverage Radius Issue 326 -- 12.1.7 Signalling Overhead 326 -- 12.1.8 Proximity Services 326 -- 12.1.9 The Internet?of?Things (IoT) 327 -- 12.1.10 The Age of Big Data 328 -- 12.1.11 5G and Femtocells 328 -- 12.1.12 Antenna Design and Channel Modelling 328 -- References 330 -- Index 332 --.

Sommario/riassunto

A COMPREHENSIVE RESOURCE TO THE LATEST DEVELOPMENTS OF SYSTEM ENHANCEMENT TECHNIQUES OF FEMTOCELLS, POWER MANAGEMENT, INTERFERENCE MITIGATION AND ANTENNA DESIGN LTE Communications and Networks fills a gap in the literature to offer a comprehensive review of the most current developments of LTE Femtocells and antennas and explores their future growth. With contributions from a group of experts that represent the fields of wireless communications and mobile communications, signal processing and antenna design, this text identifies technical challenges and presents recent results related to the development, integration and enhancement of LTE systems in portable devices. The authors examine topics such as application of cognitive radio with efficient sensing mechanisms, interference mitigation and power management schemes for the LTE systems. They also provide a comprehensive account of design challenges and approaches, performance enhancement techniques and effects of user's presence on the LTE antennas. LTE Communications and Networks also highlights the promising technologies of multiband, multimode and reconfigurable antennas for efficient design of portable LTE devices. Designed to be a practical resource, this text: . Explores the interference mitigation, power control and spectrum management in LTE Femtocells and related issues. Contains information on the design challenges, different approaches, performance enhancement and application case scenarios for the LTE antennas. Covers the most recent developments of system enhancement techniques in terms of Femtocells, power management, interference mitigation and antenna design. Includes contributions from leading experts in the field Written for industry professionals and researchers, LTE Communications and Networks is a groundbreaking book that presents a comprehensive treatment of the LTE systems in the context of Femtocells and antenna design and covers the wide range of issues related to the topic.
