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Autore	Bar-On Dan
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction: my journey through the whirlwind -- Developing a methodology : narratives and stories -- Reconstructing narratives out of silence : beginning a dialogue between Germans and Israelis -- Prime : peace-building efforts under fire -- Storytelling in the Israeli Jewish and Palestinian context -- The diverse voices of Haifa -- In conclusion: life's rivers, whirlwinds, and whirlpools.
Sommario/riassunto	Describes Dan Bar-On's method of using storytelling as both a qualitative biographical research method and as an intervention, to bring people from opposite sides of an abyss to a dialogue. Such work needs slow pace and long-term commitment, with a special combination of a scientific rigorous analysis with a sensitive approach

toward the people one approaches.

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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- About the Authors -- Preface -- Acknowledgments -- Chapter 1 Introduction to 5G and Beyond Network -- 1.1 5G and Beyond System Requirements -- 1.1.1 Technical Challenges -- 1.2 Enabling Technologies -- 1.2.1 5G New Radio -- 1.2.1.1 Nonorthogonal Multiple Access (NOMA) -- 1.2.1.2 Channel Codes -- 1.2.1.3 Massive MIMO -- 1.2.1.4 Other 5G NR Techniques -- 1.2.2 Mobile Edge Computing (MEC) -- 1.2.3 Hybrid and Heterogeneous Communication Architecture for Pervasive IoTs -- 1.3 Book Outline -- Chapter 2 5G Wireless Networks with Underlaid D2D Communications -- 2.1 Background -- 2.1.1 MUMIMO -- 2.1.2 D2D Communication -- 2.1.3 MUMIMO and D2D in 5G -- 2.2 NOMAAided Network with Underlaid D2D -- 2.3 NOMA with SIC and Problem Formation -- 2.3.1 NOMA with SIC -- 2.3.2 Problem Formation -- 2.4 Precoding and User Grouping Algorithm -- 2.4.1 ZeroForcing Beamforming -- 2.4.1.1 First ZF Precoding -- 2.4.1.2 Second ZF

Precoding -- 2.4.2 User Grouping and Optimal Power Allocation -- 2.4.2.1 First ZF Precoding -- 2.4.2.2 Second ZF Precoding -- 2.5 Numerical Results -- 2.6 Summary -- Chapter 3 5G NOMAEnabled Wireless Networks -- 3.1 Background -- 3.2 Error Propagation in NOMA -- 3.3 SIC and Problem Formulation -- 3.3.1 SIC with Error Propagation -- 3.3.2 Problem Formation -- 3.4 Precoding and Power Allocation -- 3.4.1 Precoding Design -- 3.4.2 Case Studies for Power Allocation -- 3.4.2.1 Case I -- 3.4.2.2 Case II -- 3.5 Numerical Results -- 3.6 Summary -- Chapter 4 NOMA in Relay and IoT for 5G Wireless Networks -- 4.1 Outage Probability Study in a NOMA Relay System -- 4.1.1 Background -- 4.1.2 System Model -- 4.1.2.1 NOMA Cooperative Scheme -- 4.1.2.2 NOMA TDMA Scheme -- 4.1.3 Outage Probability Analysis -- 4.1.3.1 Outage Probability in NOMA Cooperative Scheme -- 4.1.4 Outage Probability in NOMA TDMA Scheme.
4.1.5 Outage Probability with Error Propagation in SIC -- 4.1.5.1 Outage Probability in NOMA Cooperative Scheme with EP -- 4.1.5.2 Outage Probability in NOMA TDMA Scheme with EP -- 4.1.6 Numerical Results -- 4.2 NOMA in a mmWaveBased IoT Wireless System with SWIPT -- 4.2.1 Introduction -- 4.2.2 System Model -- 4.2.2.1 Phase 1 Transmission -- 4.2.2.2 Phase 2 Transmission -- 4.2.3 Outage Analysis -- 4.2.3.1 UE 1 Outage Probability -- 4.2.3.2 UE 2 Outage Probability -- 4.2.3.3 Outage at High SNR -- 4.2.3.4 Diversity Analysis for UE 2 -- 4.2.4 Numerical Results -- 4.2.5 Summary -- Chapter 5 Robust Beamforming in NOMA Cognitive Radio Networks: Bounded CSI -- 5.1 Background -- 5.1.1 Related Work and Motivation -- 5.1.1.1 Linear EH Model -- 5.1.1.2 Nonlinear EH Model -- 5.1.2 Contributions -- 5.2 System and Energy Harvesting Models -- 5.2.1 System Model -- 5.2.2 Nonlinear EH Model -- 5.2.3 Bounded CSI Error Model -- 5.2.3.1 NOMA Transmission -- 5.3 Power MinimizationBased Problem Formulation -- 5.3.1 Problem Formulation -- 5.3.2 Matrix Decomposition -- 5.4 Maximum Harvested Energy Problem Formulation -- 5.4.1 Complexity Analysis -- 5.5 Numerical Results -- 5.5.1 Power Minimization Problem -- 5.5.2 Energy Harvesting Maximization Problem -- 5.6 Summary -- Chapter 6 Robust Beamforming in NOMA Cognitive Radio Networks: Gaussian CSI -- 6.1 Gaussian CSI Error Model -- 6.2 Power MinimizationBased Problem Formulation -- 6.2.1 BernsteinType Inequality I -- 6.2.2 Bernstein Type Inequality II -- 6.3 Maximum Harvested Energy Problem Formulation -- 6.3.1 Complexity Analysis -- 6.4 Numerical Results -- 6.4.1 Power Minimization Problem -- 6.4.2 Energy Harvesting Maximization Problem -- 6.5 Summary -- Chapter 7 Mobile Edge Computing in 5G Wireless Networks -- 7.1 Background -- 7.2 System Model -- 7.2.1 Data Offloading -- 7.2.2 Local Computing.
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Sommario/riassunto

This book delves into the advancements and challenges of 5G and beyond wireless communication networks. It covers a range of topics including new radio technologies, massive MIMO, and non-orthogonal multiple access. The book also explores device-to-device communications, mobile edge computing, and secure spectrum sharing with machine learning. It is aimed at researchers, practitioners, and students in the field of electrical and computer engineering, providing insights into the future directions and potential applications of wireless networks. The authors, Haijian Sun, Rose Qingyang Hu, and Yi Qian, bring expertise from academia to discuss the technical requirements and enabling technologies for next-generation networks.