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| 1. Record Nr. | UNINA9910554836403321 |
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| Titolo | Toward 6G : a new era of convergence // Amin Ebrahimzadeh, Martin Maier |
| Pubbl/distr/stampa | Hoboken, New Jersey : , : Wiley, , [2021] Â©2021 |
| ISBN | 1-119-65804-7 1-119-65805-5 1-119-65803-9 |
| Descrizione fisica | 1 online resource (243 pages) |
| Classificazione | 32.20.20.16 |
| Disciplina | 621.38456 |
| Soggetti | Wireless communication systems - Technological innovations Network performance (Telecommunication) |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Foreword -- Preface -- Acknowledgments -- Acronyms -- -- 1 The 6G Vision 1 -- 1.1 Introduction 1 -- 1.2 Evolution of Mobile Networks and Internet 4 -- 1.3 6G Network Architectures and Key Enabling Technologies 7 -- 1.3.1 Four-Tier Networks: Space-Air-Ground-Underwater 7 -- 1.3.2 Key Enabling Technologies 8 -- 1.4 Toward 6G: A New Era of Convergence 12 -- 1.5 Scope and Outline of Book 15 -- 1.5.1 Scope 15 -- 1.5.2 Outline 17 -- 2 Immersive Tactile Internet Experiences via Edge Intelligence 21 -- 2.1 Introduction 21 -- 2.2 The Tactile Internet: Automation or Augmentation of the Human? 29 -- 2.3 Haptic Traffic Characterization 36 -- 2.3.1 Teleoperation Experiments 38 -- 2.3.2 Packet Interarrival Times 39 -- 2.3.3 Sample Autocorrelation 45 -- 2.4 FiWi Access Networks: Revisited for Clouds and Cloudlets 48 -- 2.4.1 FiWi: EPON and WLAN 48 -- 2.4.2 C-RAN: Cloud vs. Cloudlet 51 -- 2.4.3 Low-Latency FiWi Enhanced LTE-A HetNets 52 -- 2.5 Delay Analysis 56 -- 2.5.1 Assumptions 56 -- 2.5.2 Local Teleoperation 57 -- 2.5.3 Non-Local Teleoperation 62 -- 2.6 Edge Sample Forecast 63 -- 2.7 Results 69 -- 2.8 Conclusions 74 -- 3 Context- and Self-Awareness for Human-Agent-Robot Task Coordination -- 3.1 Introduction 77 -- 3.2 System Model 80 -- 3.2.1 |

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Sommario/riassunto

"The current deployment of 5G cellular systems is exposing the inherent limitations of the wireless communication system, compared to its original premise as an enabler for Internet of Everything (IoE) applications. IoE services will require an end-to-end design of communication, control, and computation functionalities, which to date has been largely overlooked. These 5G drawbacks are currently spurring worldwide activities focused on defining the next-generation 6G wireless system that can truly integrate far-reaching applications ranging from autonomous systems to XR and haptics. 6G will not be a mere exploration of more spectrum at high-frequency bands, but it will rather be a convergence of upcoming technological trends. While traditional applications will remain central to 6G, the key determinants of system performance will be the following four new applications domains: (i) multisensory XR applications, (ii) connected robotics and autonomous systems, (iii) wireless brain-computer interaction, and (iv)

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| 2. Record Nr. | UNINA9910970832503321 |
| Autore | Bimberg Edward L. <1919-> |
| Titolo | Tricolor over the Sahara : the desert battles of the Free French, 1940-1942 / / Edward L. Bimberg |
| Pubbl/distr/stampa | Westport, Conn. : , : Praeger, , 2002 London : , : Bloomsbury Publishing, , 2024 |
| ISBN | 9798216027539 9786610468652 9781280468650 1280468653 9780313010972 0313010978 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (143 p.) |
| Collana | Contributions in military studies, , 0883-6884 ; ; no. 217 |
| Disciplina | 940.54/23 |
| Soggetti | World War, 1939-1945 - Campaigns - Africa, North |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Bibliographic Level Mode of Issuance: Monograph |
| Nota di bibliografia | Includes bibliographical references (p. [129]-130) and index. |
| Nota di contenuto | Cover -- TRICOLOR OVER THE SAHARA -- CONTENTS -- AUTHOR'S NOTE -- INTRODUCTION -- Chapter 1 THE DESERT BEFORE -- NOTES -- Chapter 2 THE STIRRINGS OF WAR -- NOTES -- Chapter 3 COMBAT-MOURZOUK AND KOUFRA -- NOTES -- Chapter 4 THE GHOST RAIDERS -- NOTES -- Chapter 5 ON TO TUNIS -- NOTES -- Chapter 6 ENTER, THE LEGION -- NOTES -- Chapter 7 THE WESTERN DESERT -- NOTES -- Chapter 8 LOOKING BACK -- NOTES -- EPILOGUE -- NOTES -- APPENDIX: UNIFORMS -- GLOSSARY -- SELECTED BIBLIOGRAPHY -- INDEX -- About the Author -- Recent Titles in Contributions in Military Studies. |
| Sommario/riassunto | This is the story of the early struggles of an ill-equipped ragtag French force, among the first to pledge its loyalty to General de Gaulle. It fought a lonely, almost secret war against the numerically superior Italian troops deep in the wildest parts of the Sahara, hundreds of miles |

from the main campaigns along the African coast. These daring Free French raids with their long thirsty treks and small-scale oasis battles have been nearly forgotten, although their path is marked by the graves of many hundreds of French, Italian, and native soldiers. Bimberg details the exotic units that participated in this struggle, including the Tirailleurs Senegalaise du T'chad (African Infantry), the Compagnies Sahariennes (Saharan Camel Companies), and the Groupe Nomade du Tibesti (a tribal militia recruited in the Tibesti Mountain region of the great desert). Despite antiquated equipment and some of the world's worst terrain, the Free French were among the most dedicated soldiers in the Allied camp. The backdrop to their fierce fighting includes the barely surveyed Tibesti Mountains with their 10,000 foot volcanic peaks, interspersed with treacherous shifting sands-terrain which would prove to be an enormous challenge to the worn out, patched-together motor vehicles of the Free French. Much of the action takes place in the most remote areas of Italian Libya, the desert province of Fezzan with its fortified oases of Mourzouk and Koufra, each strongly defended by the Italians. While these skirmishes were a sideshow to the epic battles of North Africa, they were immortalized by heroic acts by the French and African troops alike, efforts that ultimately led to success in this far corner of the world.
