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| Titolo | Advances in energy systems : the large-scale renewable energy integration challenge / / edited by Peter D. Lund [and three others] |
| Pubbl/distr/stampa | Hoboken, New Jersey : , : Wiley, , 2019 |
| ISBN | 1-119-50831-2<br>1-119-50833-9 |
| Edizione | [1st edition] |
| Descrizione fisica | 1 online resource (550 pages) |
| Disciplina | 333.794 |
| Soggetti | Renewable energy sources<br>Power resources - Forecasting<br>Electronic books. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Sommario/riassunto | A guide to a multi-disciplinary approach that includes perspectives from noted experts in the energy and utilities fields Advances in Energy Systems offers a stellar collection of articles selected from the acclaimed journal Wiley Interdisciplinary Review: Energy and Environment. The journalcovers all aspects of energy policy, science and technology, environmental and climate change. The book covers a wide range of relevant issues related to the systemic changes for large-scale integration of renewable energy as part of the on-going energy transition. The book addresses smart energy systems technologies, flexibility measures, recent changes in the marketplace and current policies. With contributions from a list of internationally renowned experts, the book deals with the hot topic of systems integration for future energy systems and energy transition. This important resource: Contains contributions from noted experts in the field Covers a broad range of topics on the topic of renewable energy Explores the technical impacts of high shares of wind and solar power Offers a review of international smart-grid policies Includes information on wireless power transmission Presents an authoritative view of micro-grids Contains a wealth of other relevant topics Written forenergy planners, |

energy market professionals and technology developers, Advances in Energy Systems is an essential guide with contributions from an international panel of experts that addresses the most recent smart energy technologies.

2. Record Nr. UNINA9910830444303321

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| Autore | Al Agha Khaldoun |
| Titolo | Edge networking : internet of edges / / Khaldoun Al Agha, Pauline Loygue, and Guy Pujolle |
| Pubbl/distr/stampa | Hoboken, New Jersey : , : John Wiley & Sons, Incorporated, , [2022]<br>©2022 |
| ISBN | 1-394-17376-8<br>1-394-17374-1 |
| Descrizione fisica | 1 online resource (263 pages) |
| Collana | Sciences: networks and communications: cloud networking |
| Disciplina | 610.285 |
| Soggetti | Internet |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Includes index. |
| Nota di contenuto | Cover -- Title Page -- Copyright Page -- Contents -- Introduction -- Chapter 1. Edge Architectures -- 1.1. The three levels of Edge Networking -- 1.2. Edge Computing architectures -- 1.3. Security and domain name system on Edge -- 1.4. The digital infrastructure of the participatory Internet -- 1.5. Conclusion -- 1.6. References -- Chapter 2. MEC Networks -- 2.1. The MEC level of 5G architecture -- 2.2. 5G -- 2.3. 5G Edge -- 2.4. Conclusion -- 2.5. References -- Chapter 3. Fog Networks -- 3.1. Fog architectures -- 3.2. Fog controllers -- 3.3. Fog and the Internet of Things -- 3.4. Wi-Fi in the Fog's digital infrastructure -- 3.5. The new generation Wi-Fi -- 3.6. The next generation of mobile Wi-Fi -- 3.7. Private 5G for Fog Networking -- 3.8. Conclusion -- 3.9. References -- Chapter 4. Skin Networks -- 4.1. The architecture of Skin networks -- 4.2. Virtual access points -- 4.3. Participatory Internet networks -- 4.4. Conclusion -- 4.5. References -- Chapter 5. Ad hoc and Mesh Networks -- 5.1. Ad hoc networks -- 5.2. Routing -- 5.3. Mesh networks -- 5.4. Participatory networks -- |

5.5. Local services -- 5.6. The digital infrastructure of the Internet of the Edges -- 5.7. Conclusion -- 5.8. References -- Chapter 6. Applications of the Internet of Edges -- 6.1. Civil security and defense applications -- 6.2. Applications of the Internet of Things -- 6.3. The tactile Internet -- 6.4. Telecom applications -- 6.5. Industry 4.0 -- 6.6. The smart city -- 6.7. Conclusion -- 6.8. References -- Chapter 7. Vehicular Networks -- 7.1. Communication techniques for vehicular networks -- 7.2. Vehicular Ad hoc NETworks -- 7.3. Connected and intelligent vehicles -- 7.4. The MEC and the VEC -- 7.5. Intelligent transport systems (ITS)-G5 -- 7.6. 5G V2X -- 7.7. The VLC -- 7.8. Conclusion -- 7.9. References -- Chapter 8. Virtualization of the Internet of Edges.
8.1. Network virtualization -- 8.2. Virtualization on the Edge -- 8.3. Using virtual networks on the Edge -- 8.3.1. Isolation -- 8.3.2. Extending network virtualization -- 8.4. Mobile Edge Computing -- 8.4.1. Examples of MEC applications -- 8.4.2. Geolocation -- 8.4.3. Augmented reality -- 8.4.4. Video analytics -- 8.4.5. Content optimization -- 8.4.6. Content cache and DNS cache -- 8.4.7. Performance optimization -- 8.4.8. Positioning of MEC servers -- 8.5. Conclusion -- 8.6. References -- Chapter 9. Security -- 9.1. Cloud of security on the Edge -- 9.2. Secure element -- 9.2.1. Security based on secure elements -- 9.2.2. The TEE -- 9.2.3. The trusted service manager -- 9.2.4. The Cloud-based security solution -- 9.2.5. Solutions for security -- 9.3. Blockchain -- 9.3.1. Blockchain consensus -- 9.3.2. Blockchain in Edge Computing -- 9.4. Conclusion -- 9.5. References -- Chapter 10. The Example of Green Communications -- 10.1. The Green PI solution -- 10.2. The Edge Cloud -- 10.3. The IoE -- 10.4. The IoE platform -- 10.5. Use cases: IoT in constrained environments -- 10.6. IoT in motion -- 10.7. Massive IoT -- 10.8. The advantages -- 10.9. References -- Chapter 11. Deployment of the Participatory Internet -- 11.1. The deployment -- 11.2. The Green Cloud -- 11.2.1. My Network -- 11.2.2. Chat -- 11.2.3. Talk -- 11.2.4. Storage -- 11.2.5. vCard Editor -- 11.3. Scaling up -- 11.4. Energy savings -- 11.5. Security -- 11.6. Wi-Fi and LTE hybridization -- 11.7. Conclusion -- 11.8. References -- Chapter 12. The Future -- 12.1. The short-term future -- 12.2. The medium-term future -- 12.3. The long-term future -- 12.4. Participatory Internet and IPV6 -- 12.5. References -- List of Authors -- Index -- EULA.

Sommario/riassunto

The Internet of Edges is a new paradigm whose objective is to keep data and processing close to the user. This book presents three different levels of Edge networking: MEC (Multi-access Edge Computing), Fog and Far Edge (sometimes called Mist or Skin). It also reviews participatory networks, in which user equipment provides the resources for the Edge network. Edge networks can be disconnected from the core Internet, and the interconnection of autonomous edge networks can then form the Internet of Edges. This book analyzes the characteristics of Edge networks in detail, showing their capacity to replace the imposing Clouds of core networks due to their superior server response time, data security and energy saving.

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|---|---|
| Autore | Green, André |
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| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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