1. Record Nr. UNINA9911009387303321

| | |
|---|---|
| Autore | Ansari Irshad Ahmad |
| Titolo | Signal Processing with Python : A Practical Approach |
| Pubbl/distr/stampa | Bristol : , : Institute of Physics Publishing, , 2024<br>©2024 |
| ISBN | 9780750359313<br>0750359315 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (297 pages) |
| Collana | IOP Ebooks Series |
| Altri autori (Persone) | BajajVarun |
| Soggetti | Signal processing<br>Python (Computer program language) |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Intro -- Acknowledgements -- Editor biographies -- Irshad Ahmad Ansari -- Varun Bajaj -- List of contributors -- Contributor biographies -- Outline placeholder -- Mosabber Uddin Ahmed -- Meena Anandan -- Zahra Ghanbari -- Aakash Kumar Jain -- K P Madhavan -- Manas Kumar Mishra -- Ishrat Jahan Mohima -- Mohammad Hassan Moradi -- Poorya Moradi -- Rohini Palanisamy -- Nakul Kishor Pathak -- K K Mujeeb Rahman -- Mozhdeh Saghalaini -- Deepika Sainani -- Urvashi Prakash Shukla -- Abhishek Kumar Singh -- Mahdi Taghaddossi -- Pandiyarasan Veluswamy -- Chapter  Automatic feature extraction using deep learning for automatic modulation classification implemented with Python -- 1.1 Introduction -- 1.2 Proposed AMC based on DL framework -- 1.3 System model for dataset generation -- 1.4 Generalized feature extraction system using DL -- 1.4.1 Spatial feature extraction using CNNs -- 1.4.2 CLDNN-based approach -- 1.4.3 MCLDNN based approach -- 1.4.4 Complement of multichannel structure from bimodal information using BMCCLDNN models -- 1.5 Data preparation -- 1.5.1 Python code (libraries, file paths) -- 1.5.2 Python code (random shuffling of data) -- 1.5.3 Python code (data preparation for training) -- 1.5.4 Python code (data reshaping) -- 1.5.5 Python code (model training) -- 1.5.6 Python code (model evaluation) -- 1.5.7 Python code (model prediction) -- 1.6 Conclusion -- |

Sommario/riassunto

This book explores the domain of signal processing using Python, with the help of working examples and accompanying code and introduces the concepts of Python programming via signal processing with numerous hands-on examples and code snippets.