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| 1. Record Nr.           | UNISA990002987290203316                                                                                                            |
| Titolo                  | Highlights in condensed matter physics : Salerno, Italy, 9-11 May 2003<br>/ editors Adolfo Avella...[et al.]                       |
| Pubbl/distr/stampa      | Melville : AIP, 2003                                                                                                               |
| Descrizione fisica      | XV, 358 p. ; 24 cm                                                                                                                 |
| Collana                 | AIP Conference proceedings ; 695                                                                                                   |
| Disciplina              | 530.41                                                                                                                             |
| Soggetti                | Materia                                                                                                                            |
| Collocazione            | 530.12 LEC 695                                                                                                                     |
| Lingua di pubblicazione | Inglese                                                                                                                            |
| Formato                 | Materiale a stampa                                                                                                                 |
| Livello bibliografico   | Monografia                                                                                                                         |
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| 2. Record Nr.           | UNINA9910805676903321                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Autore                  | Mitschke Norbert                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Titolo                  | Konvolutionare neuronale Netze in der industriellen Bildverarbeitung und Robotik / / Norbert Mitschke                                                                                                                                                                                                                                                                                                                                                                        |
| Pubbl/distr/stampa      | Karlsruhe : , : KIT Scientific Publishing, , 2022                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Descrizione fisica      | 1 online resource (212 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Collana                 | Forschungsberichte aus der Industriellen Informationstechnik; ; 26                                                                                                                                                                                                                                                                                                                                                                                                           |
| Disciplina              | 621.399                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Soggetti                | Image processing - Industrial applications<br>Robotics - Industrial applications<br>Machine learning - Industrial applications                                                                                                                                                                                                                                                                                                                                               |
| Lingua di pubblicazione | Tedesco                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Nota di bibliografia    | Includes bibliographical references and index.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sommario/riassunto      | In the first part of this dissertation, a framework for the design of a CNN for FPGAs is presented, consisting of a preprocessing algorithm, an augmentation technique, a custom quantization scheme and a pruning step of the CNN. The combination of conventional image processing with neural networks is shown in the second part by an example from robotics, where an image-based visual servoing process is successfully conducted for a gripping process of a robot. |