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| 1. Record Nr.           | UNINA9910347046403321  |
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| Titolo                  | Beleuchtungsverfahren zur problemspezifischen Bildgewinnung für die automatische Sichtprüfung  |
| Pubbl/distr/stampa      | KIT Scientific Publishing, 2013  |
| ISBN                    | 1000044824   |
| Descrizione fisica      | 1 online resource (XXIV, 239 p. p.)  |
| Collana                 | Schriftenreihe Automatische Sichtprüfung und Bildverarbeitung  |
| Lingua di pubblicazione | Tedesco  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Sommario/riassunto      | In machine vision, the illumination design has direct impact on the performance of a visual inspection system. In this work, a problem-specific illumination design is presented, which is motivated by optical feature extraction taking place during physical image acquisition. The approach is analyzed on the basis of a physically based camera and illumination model and is experimentally evaluated in different application scenarios. |