1. Record Nr.   UNINA9910347048703321

   Autore   Michelsburg Matthias

   Titolo   Materialklassifikation in optischen Inspektionssystemen mithilfe
                     hyperspektraler Daten

   Pubbl/distr/stampa   KIT Scientific Publishing, 2014

   ISBN   1000043415

   Descrizione fisica   1 electronic resource (XI, 222 p. p.)

   Collana   Forschungsberichte aus der Industriellen Informationstechnik / Institut
                     für Industrielle Informationstechnik (IIIT), Karlsruher Institut für
                     Technologie

   Lingua di pubblicazione   Tedesco

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Sommario/riassunto   In this work, different methods for material classification by
                     hyperspectral images in the near infrared range are investigated.
                     Specifically, the design of problem-adapted camera systems and the
                     choice of optimal optical filters are discussed. In addition, a method for
                     the fusion of multiple camera signals by spectral unmixing is
                     presented.