

1. Record Nr.	UNINA9910346913303321
Autore	Pérez Grassi Ana
Titolo	Variable illumination and invariant features for detecting and classifying varnish defects
Pubbl/distr/stampa	KIT Scientific Publishing, 2010
ISBN	1000019094
Descrizione fisica	1 online resource (158 p. p.)
Collana	Forschungsberichte aus der Industriellen Informationstechnik / Institut für Industrielle Informationstechnik (IIIT), Karlsruher Institut für Technologie
Soggetti	Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This work presents a method to detect and classify varnish defects on wood surfaces. Since these defects are only partially visible under certain illumination directions, one image doesn't provide enough information for a recognition task. A classification requires inspecting the surface under different illumination directions, which results in image series. The information is distributed along this series and can be extracted by merging the knowledge about the defect shape and light direction.