

1. Record Nr.	UNISA996465732303316
Titolo	Computational Forensics [[electronic resource] ] : Third International Workshop, IWCF 2009, The Hague, The Netherlands, August 13-14, 2009, Proceedings // edited by Zeno J. M. H. Geradts, Katrin Franke, Cor J. Veenman
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	1-280-38321-6 9786613561138 3-642-03521-3
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (X, 181 p.)
Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 5718
Disciplina	363.250285
Soggetti	Biometrics (Biology) Pattern recognition Data mining Optical data processing Computers Law and legislation Biometrics Pattern Recognition Data Mining and Knowledge Discovery Computer Imaging, Vision, Pattern Recognition and Graphics Image Processing and Computer Vision Legal Aspects of Computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Speech and Linguistics -- Statistical Evaluation of Biometric Evidence in Forensic Automatic Speaker Recognition -- Forensic Authorship Attribution Using Compression Distances to Prototypes -- Printers -- Estimation of Inkjet Printer Spur Gear Teeth Number from Pitch Data String of Limited Length -- Detecting the Spur Marks of Ink-Jet Printed

Documents Using a Multiband Scanner in NIR Mode and Image Restoration -- Fingerprints -- A Computational Discriminability Analysis on Twin Fingerprints -- Probability of Random Correspondence for Fingerprints -- Visualisation -- A New Computational Methodology for the Construction of Forensic, Facial Composites -- Geovisualization Approaches for Spatio-temporal Crime Scene Analysis -- Towards 4D Crime Mapping -- Multimedia -- Multimedia Forensics Is Not Computer Forensics -- Using Sensor Noise to Identify Low Resolution Compressed Videos from YouTube -- Using the ENF Criterion for Determining the Time of Recording of Short Digital Audio Recordings -- Handwriting -- A Machine Learning Approach to Off-Line Signature Verification Using Bayesian Inference -- Computer-Assisted Handwriting Analysis: Interaction with Legal Issues in U.S. Courts -- Analysis of Authentic Signatures and Forgeries -- Documents -- Automatic Line Orientation Measurement for Questioned Document Examination -- Color Deconvolution and Support Vector Machines.

---

Sommario/riassunto

This book constitutes the refereed proceedings of the Third International Workshop, IWCF 2009, held in The Hague, The Netherlands, August 13-14, 2009. The 16 revised full papers presented were carefully reviewed and are organized in topical sections on speech and linguistics, fingerprints, handwriting, documents, printers, multimedia and visualization. This volume is interesting to researchers and professionals who deal with forensic problems using computational methods. Its primary goal is the discovery and advancement of forensic knowledge involving modeling, computer simulation, and computer-based analysis and recognition in studying and solving forensic problems.

---