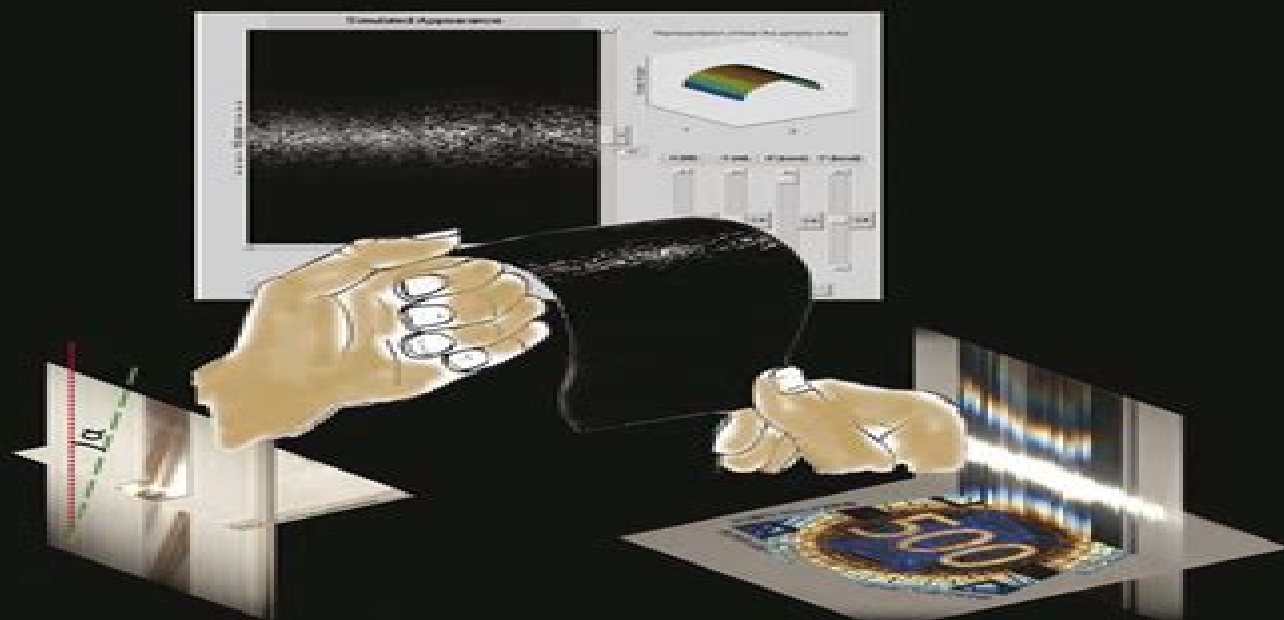


OPTICAL DOCUMENT SECURITY: MEASUREMENT, CHARACTERIZATION AND VISUALIZATION – IN THE LIGHT OF VISUAL EVALUATION

MIKAEL LINDSTRAND



Optical Document Security

Joost van Beusekom



Optical Document Security:

Optical Document Security Rudolf L. Van Renesse, 1998 This edition on optical document security has been revised and updated to include three new chapters on security design of valuable documents and products smart card security and biometrics The book should be of interest to engineers and both technical and non technical managers using secure documents or manufacturing security devices

Optical Document Security: Measurement, Characterization and Visualization Mikael Lindstrand, 2019-04-12 Documents of high value such as passports tickets and banknotes facilitate means for authentication Authentication processes aim at mitigating counterfeit passable products The arsenal of security features in the business is abundant but an effective and reliable counterfeit mitigating system need an architectural approach rather than either relying on one feature only or vaguely motivated aggregated security features Optically variable device OVD is a concept in the industry including costefficient and unique authentication functionality OVD based features may serve as the main counterfeit mitigating functionality as in banknotes For higher value documents such as passports security architectural design may include multimodal combined features in which OVD is one characterizing and necessary aspect Thereby a successful counterfeit need not only to simulate hack electronic based security features such as radio frequency based identifier combined with public key infrastructure based cryptography PKI but also simulate OVD functionality Combined feature authentication based e g on PKI and OVD that relies on principally different physics and hence technology competences is of especial interest Well architected and implemented such multimodal counterfeit mitigating systems are effective to the degree that producing passable products requiring more resources than potentially illegitimately gained by the counterfeiter Irrespective of level of ambition and efforts spent on counterfeit mitigation OVD remains critically important as a security concept One feature of OVD is the possibility to include a human inspector in the authentication procedure Including such man in the loop reduces the risk of successful and unnoticed simulations of algorithms such as PKI One challenge of OVD is a lack of standards or even measurements characterizing the significant aspects influencing a human based inspection This thesis introduces a system able to measure characterize and visualize the significant aspects influencing a human based inspection of OVD features The contribution includes the development of a multidimensional and high dynamic range HDR color measurement system of spatial and angular resolution The capturing of HDR images is particularly demanding for certain high contrast OVD features and require innovative algorithms to achieve the necessary high contrast sensitivity function of the imaging sensor Representing the significant aspects influencing a human based inspection of OVD requires a considerable amount of data The development of an appropriate information protocol is therefore of importance to facilitate further analysis data processing and visualization The information protocol transforming the measurement data into characterizing information is a second significant achievement of the presented work in this thesis To prove the applicability measurements visualizations and statistically based analyses have been

developed for a selection of previously unsolved problems as defined by senior scientists and representatives of central banks

Characterization and measurements of the degree to which OVD deteriorate with circulation is one such problem One particular benefit of the implemented suggested solution is the characterization and measurement aim at aspects influencing human based first line inspection The principally difference in the problems treated indicates the generality of the system which is a third significant project achievement The system developed achieves the accuracy and precision including a resolution dynamic range and contrast sensitivity function required for a technology independent standard protocol of optical document security OVDs These abilities facilitate the definition and verification of program of requirements for the development of new security documents Adding also the capability of interlinking first second and third line inspection based characterizations may prove a particular valuable combination which is a fourth significant project achievement The information content Entropy of characterized OVDs and OVD production limitations in combination opens for OVD based novel applications of physically unclonable functions PUF This is of significance as it would generalize the established OVDs to facilitate multimodal verification including PUF verification The OVDs would thereby transform into a combined PUF first line inspection facilitating security feature

Optical Document Security Rudolf L. Van Renesse, 1994-01-01 Optical Document Security in High Volume Office Environments Joost van Beusekom, 2010 **Optical Document Security** Reconnaissance International Ltd, 2008 **Optical Document Security II** Rudolf L. Van Renesse, Reconnaissance International, Reconnaissance International Ltd, 2010 **Optical Document Security** Rudolf Van Renesse, 2002-11-12 SPIE Professional Development materials provide viewers with technical guidance in a variety of fields Optical Imaging Sensors and Systems for Homeland Security Applications Bahram Javidi, 2006-05-16 Optical and photonic systems and devices have significant potential for homeland security Optical Imaging Sensors and Systems for Homeland Security Applications presents original and significant technical contributions from leaders of industry government and academia in the field of optical and photonic sensors systems and devices for detection identification prevention sensing security verification and anti counterfeiting The chapters have recent and technically significant results ample illustrations figures and key references This book is intended for engineers and scientists in the relevant fields graduate students industry managers university professors government managers and policy makers **Optical Security and Counterfeit Deterrence Techniques**, 2006 **Security Engineering** Ross Anderson, 2020-11-24 Now that there s software in everything how can you make anything secure Understand how to engineer dependable systems with this newly updated classic In Security Engineering A Guide to Building Dependable Distributed Systems Third Edition Cambridge University professor Ross Anderson updates his classic textbook and teaches readers how to design implement and test systems to withstand both error and attack This book became a best seller in 2001 and helped establish the discipline of security engineering By the second edition in 2008 underground dark markets had let the bad guys specialize and scale up attacks

were increasingly on users rather than on technology The book repeated its success by showing how security engineers can focus on usability Now the third edition brings it up to date for 2020 As people now go online from phones more than laptops most servers are in the cloud online advertising drives the Internet and social networks have taken over much human interaction many patterns of crime and abuse are the same but the methods have evolved Ross Anderson explores what security engineering means in 2020 including How the basic elements of cryptography protocols and access control translate to the new world of phones cloud services social media and the Internet of Things Who the attackers are from nation states and business competitors through criminal gangs to stalkers and playground bullies What they do from phishing and carding through SIM swapping and software exploits to DDoS and fake news Security psychology from privacy through ease of use to deception The economics of security and dependability why companies build vulnerable systems and governments look the other way How dozens of industries went online well or badly How to manage security and safety engineering in a world of agile development from reliability engineering to DevSecOps The third edition of Security Engineering ends with a grand challenge sustainable security As we build ever more software and connectivity into safety critical durable goods like cars and medical devices how do we design systems we can maintain and defend for decades Or will everything in the world need monthly software upgrades and become unsafe once they stop

Security Engineering Ross J. Anderson, 2010-11-05

The world has changed radically since the first edition of this book was published in 2001 Spammers virus writers phishermen money launderers and spies now trade busily with each other in a lively online criminal economy and as they specialize they get better In this indispensable fully updated guide Ross Anderson reveals how to build systems that stay dependable whether faced with error or malice Here's straight talk on critical topics such as technical engineering basics types of attack specialized protection mechanisms security psychology policy and more

The History of Information Security Karl

Maria Michael de Leeuw, Jan Bergstra, 2007-08-28 Information Security is usually achieved through a mix of technical organizational and legal measures These may include the application of cryptography the hierarchical modeling of organizations in order to assure confidentiality or the distribution of accountability and responsibility by law among interested parties The history of Information Security reaches back to ancient times and starts with the emergence of bureaucracy in administration and warfare Some aspects such as the interception of encrypted messages during World War II have attracted huge attention whereas other aspects have remained largely uncovered There has never been any effort to write a comprehensive history This is most unfortunate because Information Security should be perceived as a set of communicating vessels where technical innovations can make existing legal or organisational frame works obsolete and a breakdown of political authority may cause an exclusive reliance on technical means This book is intended as a first field survey It consists of twenty eight contributions written by experts in such diverse fields as computer science law or history and political science dealing with episodes organisations and technical developments that may considered to be exemplary or

have played a key role in the development of this field These include the emergence of cryptology as a discipline during the Renaissance the Black Chambers in 18th century Europe the breaking of German military codes during World War II the histories of the NSA and its Soviet counterparts and contemporary cryptology Other subjects are computer security standards viruses and worms on the Internet computer transparency and free software computer crime export regulations for encryption software and the privacy debate Interdisciplinary coverage of the history Information Security Written by top experts in law history computer and information science First comprehensive work in Information Security Naval Research Reviews ,1996 Document Analysis and Recognition - ICDAR 2021 Workshops Elisa H. Barney Smith,Umapada Pal,2021-09-03 This book constitutes the proceedings of the international workshops co located with the 16th International Conference on Document Analysis and Recognition ICDAR 2021 held in Lausanne Switzerland in September 2021 The total of 59 full and 12 short papers presented in this book were carefully selected from 96 contributions and divided into two volumes Part I contains 29 full and 4 short papers that stem from the following meetings ICDAR 2021 Workshop on Graphics Recognition GREC ICDAR 2021 Workshop on Camera Based Document Analysis and Recognition CBDAR ICDAR 2021 Workshop on Arabic and Derived Script Analysis and Recognition ASAR 2021 ICDAR 2021 Workshop on Computational Document Forensics IWCDF The main topics of the contributions are document processing physical and logical layout analysis text and symbol recognition handwriting recognition signature verification and document forensics and others Accurate Graphic Symbol Detection in Ancient Document Digital Reproductions is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) Nanophotonic Information Physics Makoto Naruse,2013-12-12 This book provides a new direction in the field of nano optics and nanophotonics from information and computing related sciences and technology Entitled by Information Physics and Computing in Nanoscale Photonics and Materials IPCN in short the book aims to bring together recent progresses in the intersection of nano scale photonics information and enabling technologies The topic will include 1 an overview of information physics in nanophotonics 2 DNA self assembled nanophotonic systems 3 Functional molecular sensing 4 Smart fold computing an architecture for nanophotonics 5 semiconductor nanowire and its photonic applications 6 single photoelectron manipulation in imaging sensors 6 hierarchical nanophotonic systems 8 photonic neuromorphic computing and 9 SAT solver and decision making based on nanophotonics **Information Security Implications for Photonics Networks** , *Three-Dimensional Television, Video, and Display Technologies* Bahram Javidi,Fumio Okano,2002-08-15 The first monograph on this rapidly evolving area of research and development this book presents both the theory and applications of new advances in 3D TV and display techniques The theoretical concepts are illustrated by applied examples numerical simulations and experimental results *Access Device Fraud and Related Financial Crimes* Jerry Iannacci,2020-03-05 Access Device Fraud and Related Financial Crimes offers front line exposure It is a reference text that affords the student financial investigator or law

enforcement professional a true insight into a wide spectrum of criminal activity involving financial crimes This book brings the reader back to the scene of cases in which the intensity and ma Managing Legal and Security Risks in Computers and Communications Paul Shaw,1998 Managing Legal and Security Risks in Computing and Communications is written for professionals who are responsible for the protection of these systems This up to date plain English guide to computer related crime examines legal liability risks and recommends practical ways companies can develop policies codes of conduct and communications designed to make employees aware of their compliance obligations *Fundamentals of Media Security* WeiQi Yan,Jonathan Weir,2010

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