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Autore	Bille Josef F
Titolo	High Resolution Imaging in Microscopy and Ophthalmology [[electronic resource]] : New Frontiers in Biomedical Optics / / edited by Josef F. Bille
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ISBN	3-030-16638-4
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Descrizione fisica	1 online resource (XX, 407 p. 260 illus., 220 illus. in color.)
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Lingua di pubblicazione	Inglese
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Nota di contenuto	PART ONE - Breaking the Diffraction Barrier in Fluorescence Microscopy -- High-Resolution 3D Light Microscopy with STED and RESOLFT -- PART TWO - Retinal Imaging and Image Guided Retina Treatment -- Scanning Laser Ophthalmoscopy (SLO) -- Optical Coherence Tomography (OCT) -Principle and Technical Realization -- Ophthalmic Diagnostic Imaging – Retina -- Ophthalmic Diagnostic Imaging – Glaucoma -- OCT Angiography (OCTA) in Retinal Diagnostics -- OCT-based Velocimetry for Blood Flow Quantification -- In Vivo FF-SS-OCT Optical Imaging of Physiological Responses to Photostimulation of Human Photoreceptor Cells -- Two-Photon Laser Scanning Ophthalmoscope -- Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) -- Selective Retina Therapy -- PART THREE - Anterior Segment Imaging and Image Guided Treatment -- In Vivo Confocal Scanning Laser Microscopy -- Anterior Segment OCT -- Femtosecond-Laser-Assisted Cataract Surgery (FLACS) -- Refractive Index Shaping – In-Vivo Optimization of an Implanted Intraocular Lens (IOL) -- PART FOUR-

	Adaptive Optics in Vision Science and Ophthalmology -- The Development of Adaptive Optics and its Application in Ophthalmology -- Adaptive Optics for Photoreceptor-Targeted Psychophysics -- Compact Adaptive Optics Scanning Laser Ophthalmoscope with Phase Plates.
Sommario/riassunto	This open access book provides a comprehensive overview of the application of the newest laser and microscope/ophthalmoscope technology in the field of high resolution imaging in microscopy and ophthalmology. Starting by describing High-Resolution 3D Light Microscopy with STED and RESOLFT, the book goes on to cover retinal and anterior segment imaging and image-guided treatment and also discusses the development of adaptive optics in vision science and ophthalmology. Using an interdisciplinary approach, the reader will learn about the latest developments and most up to date technology in the field and how these translate to a medical setting. High Resolution Imaging in Microscopy and Ophthalmology – New Frontiers in Biomedical Optics has been written by leading experts in the field and offers insights on engineering, biology, and medicine, thus being a valuable addition for scientists, engineers, and clinicians with technical and medical interest who would like to understand the equipment, the applications and the medical/biological background. Lastly, this book is dedicated to the memory of Dr. Gerhard Zinser, co-founder of Heidelberg Engineering GmbH, a scientist, a husband, a brother, a colleague, and a friend.

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Autore	Stamp Mark <1960->
Titolo	Information security : principles and practice / / Mark Stamp
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ISBN	1-283-13887-5 9786613138873 1-118-02796-5 1-118-02797-3 1-118-02795-7
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Descrizione fisica	1 online resource (608 p.)
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Nota di contenuto	Information Security: Principles and Practice; Contents; Preface; About The Author; Acknowledgments; 1 Introduction; 1.1 The Cast of Characters; 1.2 Alice's Online Bank; 1.2.1 Confidentiality, Integrity, and Availability; 1.2.2 Beyond CIA; 1.3 About This Book; 1.3.1 Cryptography; 1.3.2 Access Control; 1.3.3 Protocols; 1.3.4 Software; 1.4 The People Problem; 1.5 Principles and Practice; 1.6 Problems; I Crypto; 2 Crypto Basics; 2.1 Introduction; 2.2 How to Speak Crypto; 2.3 Classic Crypto; 2.3.1 Simple Substitution Cipher; 2.3.2 Cryptanalysis of a Simple Substitution; 2.3.3 Definition of Secure 2.3.4 Double Transposition Cipher2.3.5 One-Time Pad; 2.3.6 Project VENONA; 2.3.7 Codebook Cipher; 2.3.8 Ciphers of the Election of 1876; 2.4 Modern Crypto History; 2.5 A Taxonomy of Cryptography; 2.6 A Taxonomy of Cryptanalysis; 2.7 Summary; 2.8 Problems; 3 Symmetric Key Crypto; 3.1 Introduction; 3.2 Stream Ciphers; 3.2.1 A5/1; 3.2.2 RC4; 3.3 Block Ciphers; 3.3.1 Feistel Cipher; 3.3.2 DES; 3.3.3 Triple DES; 3.3.4 AES; 3.3.5 Three More Block Ciphers; 3.3.6 TEA; 3.3.7 Block Cipher Modes; 3.4 Integrity; 3.5 Summary; 3.6 Problems; 4 Public Key Crypto; 4.1 Introduction; 4.2 Knapsack; 4.3 RSA 4.3.1 Textbook RSA Example4.3.2 Repeated Squaring; 4.3.3 Speeding

Up RSA; 4.4 Diffie-Hellman; 4.5 Elliptic Curve Cryptography; 4.5.1 Elliptic Curve Math; 4.5.2 ECC Diffie-Hellman; 4.5.3 Realistic Elliptic Curve Example; 4.6 Public Key Notation; 4.7 Uses for Public Key Crypto; 4.7.1 Confidentiality in the Real World; 4.7.2 Signatures and Non-repudiation; 4.7.3 Confidentiality and Non-repudiation; 4.8 Public Key Infrastructure; 4.9 Summary; 4.10 Problems; 5 Hash Functions++; 5.1 Introduction; 5.2 What is a Cryptographic Hash Function?; 5.3 The Birthday Problem; 5.4 A Birthday Attack
5.5 Non-Cryptographic Hashes5.6 Tiger Hash; 5.7 HMAC; 5.8 Uses for Hash Functions; 5.8.1 Online Bids; 5.8.2 Spam Reduction; 5.9 Miscellaneous Crypto-Related Topics; 5.9.1 Secret Sharing; 5.9.2 Random Numbers; 5.9.3 Information Hiding; 5.10 Summary; 5.11 Problems; 6 Advanced Cryptanalysis; 6.1 Introduction; 6.2 Enigma; 6.2.1 Enigma Cipher Machine; 6.2.2 Enigma Keyspace; 6.2.3 Rotors; 6.2.4 Enigma Attack; 6.3 RC4 as Used in WEP; 6.3.1 RC4 Algorithm; 6.3.2 RC4 Cryptanalytic Attack; 6.3.3 Preventing Attacks on RC4; 6.4 Linear and Differential Cryptanalysis; 6.4.1 Quick Review of DES
6.4.2 Overview of Differential Cryptanalysis6.4.3 Overview of Linear Cryptanalysis; 6.4.4 Tiny DES; 6.4.5 Differential Cryptanalysis of TDES; 6.4.6 Linear Cryptanalysis of TDES; 6.4.7 Implications Block Cipher Design; 6.5 Lattice Reduction and the Knapsack; 6.6 RSA Timing Attacks; 6.6.1 A Simple Timing Attack; 6.6.2 Kocher's Timing Attack; 6.7 Summary; 6.8 Problems; II Access Control; 7 Authentication; 7.1 Introduction; 7.2 Authentication Methods; 7.3 Passwords; 7.3.1 Keys Versus Passwords; 7.3.2 Choosing Passwords; 7.3.3 Attacking Systems via Passwords; 7.3.4 Password Verification
7.3.5 Math of Password Cracking

Sommario/riassunto

Now updated-your expert guide to twenty-first century information security Information security is a rapidly evolving field. As businesses and consumers become increasingly dependent on complex multinational information systems, it is more imperative than ever to protect the confidentiality and integrity of data. Featuring a wide array of new information on the most current security issues, this fully updated and revised edition of Information Security: Principles and Practice provides the skills and knowledge readers need to tackle any information security challenge. Taking a pract