1. Record Nr. UNISA996217382903316

Autore	Goure Jean
Titolo	Optics in instruments
Pubbl/distr/stampa	[Place of publication not identified], : ISTE, 2011
ISBN	1-118-74432-2 1-118-74446-2 1-118-74439-X
Edizione	[1st edition]
Descrizione fisica	1 online resource (1 v.) : ill
Disciplina	681/.4
Soggetti	Optical instruments - Equipment and supplies Optoelectronic devices Optics Mechanical Engineering Engineering & Applied Sciences Industrial & Management Engineering
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	Optics and instruments -- Formation of images -- A revision of photometry and radiometry -- Light sources for opitical instruments -- Colorimetry -- Bases for image analysis -- Optics for imaging : definition, manufacturing, applications -- Optics for images at low light levels -- From the classic microscope to the tunnel effect microscope.
Sommario/riassunto	The role of optical instruments is very important and affects all areas of human activity, from scientific analysis (such as spectrometry) to recreation and leisure pursuits like photography and television. Optical components are often an essential part of the instrument, but are not always visible. It is therefore useful and important to understand how they work. In this book the reader will find both a review of the most important components currently used, the theoretical foundation for their application, and an example of evolution. To do this, we first supply the basic knowledge in optics necessary for the understanding of the instruments: geometrical optics, photometry, colorimetry, image analysis and processing, as well as a short description of the sources

	used: lamps, lasers and semiconductor sources. Optical systems such as zoom lens under different illuminations are discussed. As a first example of application, the evolution of microscopy, up to the most recent technological progress, are given.

2. Record Nr. UNINA9910255013803321

Autore	Galitsky Boris
Titolo	Computational Autism / / by Boris Galitsky
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	9783319399720
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XI, 380 p. 149 illus., 78 illus. in color.)
Collana	Human–Computer Interaction Series, , 2524-4477
Disciplina	616.898203
Soggetti	Artificial intelligence User interfaces (Computer systems) Human-computer interaction Neurology Computer arithmetic and logic units Computer science Social sciences - Data processing Artificial Intelligence User Interfaces and Human Computer Interaction Arithmetic and Logic Structures Computer Science Logic and Foundations of Programming Computer Application in Social and Behavioral Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Computational Models of Autism -- Intuitive Theory of Mind -- Formalizing Theory of Mind -- Theory of Mind Engine -- Reasoning Beyond the Mental World -- Autistic Learning and Cognition -- Rehabilitating Autistic Reasoning -- <From Reasoning to Behavior in the Real World -- Book Conclusions.

Sommario/riassunto

This book explores and evaluates accounts and models of autistic reasoning and cognition from a computational standpoint. The author investigates the limitations and peculiarities of autistic reasoning and sets out a remediation strategy to be used by a wide range of psychologists and rehabilitation personnel and will also be appreciated by computer scientists who are interested in the practical implementation of reasoning. The author subjects the Theory of Mind (ToM) model to a formal analysis to investigate the limitations of autistic reasoning and proposes a formal model regarding mental attitudes and proposes a method to help those with autism navigate everyday living. Based on the concept of playing with computer based mental simulators, the NL_MAMS, is examined to see whether it is capable of modeling mental and emotional states of the real world to aid the emotional development of autistic children. Multiple autistic theories and strategies are also examined for possible computational cross-overs, providing researchers with a wide range of examples, tools and detailed case studies to work from. Computational Autism will be an essential read to behavioral specialists, researcher’s, developers and designers who are interested in understanding and tackling the increasing prevalence of autism within modern society today.