

1. Record Nr.	UNINA9910808903503321
Titolo	Perspectives on digital pathology : results of the Cost Action IC0604 Euro-Telepath // edited by Marcial Garcia-Rojo, Bernd Blobel and Arvydas Laurinavicius
Pubbl/distr/stampa	Amsterdam, : IOS Press, c2012
ISBN	1-299-33318-4 1-61499-086-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (280 p.)
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Disciplina	616.07
Soggetti	Pathology Medical informatics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Title Page; Preface; COST Action IC0604: Management Committee Members and Participants; Contents; Part I. Introduction; The COST Action IC0604 "Telepathology Network in Europe" (EURO-TELEPATH); Part II. State of the Art in Digital Pathology; State of the Art and Trends for Digital Pathology; State of the Art in Telemedicine - Concepts, Management, Monitoring and Evaluation of the Telemedicine Programme in Alentejo (Portugal); Paradigm Changes in Health Lead to Paradigm Changes in Pathology; Telepathology Interoperability - A System Architectural Approach Consequences of "Going Digital" for Pathology Professionals - Entering the Cloud Digital Pathology for Education; Part III. Pathology Business Modeling; Business Process Modeling in Healthcare; State of the Art in Pathology Business Process Analysis, Modeling, Design and Optimization; Part IV. Standards and Specifications in Pathology; Standards and Specifications in Pathology: Image Management, Report Management and Terminology; SNOMED CT in Pathology; Part V. Images: Analysis, Processing, Retrieval and Management; Digital Pathology in Personalized Cancer Therapy

Digital Image Analysis in Breast Cancer: An Example of an Automated Methodology and the Effects of Image Compression Adaptive Clustering of Image Database (ACID) as an Efficient Tool for Improving Retrieval in a CBIR System; Part VI. Technology and Automation in Pathology; Automated High Throughput Whole Slide Imaging Using Area Sensors, Flash Light Illumination and Solid State Light Engine; Security and Privacy Services in Pathology for Enabling Trustworthy Personal Health; Emerging Trends: Grid Technology in Pathology; Part VII. Strategic Developments and Emerging Research
Evaluation of a Completely Automated Tissue-Sectioning Machine for Paraffin Blocks An Ultra-High Speed Whole Slide Image Viewing System; A Role of Three-Dimensional (3D) Reconstruction in the Classification of Lung Adenocarcinoma; Subject Index; Author Index

Sommario/riassunto

Multimedia information and digital images are increasingly important in the field of healthcare, but establishing an adequate technological framework for their management, and workable international standards to ensure compatibility and interoperability, are crucial if they are to be employed effectively. This book presents the main research efforts of EURO-TELEPATH, an initiative of the European Corporation in Science and Technology (COST) Action, IC0604. This program began in November 2007, and ran until November 2011. Its aim was to develop the standards and solutions necessary to represent, interpret, browse and retrieve digital medical images, while preserving their diagnostic quality for clinical purposes, education and research. At the end of the project, the most relevant researchers in the field of digital pathology - many of whom had been active members of EURO-TELEPATH - were asked to contribute to a book which would compile the main research efforts of the European COST Action consortium. The book is divided into six parts. The first is an introduction to the instruments and activities of COST. This is followed by sections dealing with: the state-of-the-art in pathology; pathology business modeling; standards and specifications in pathology; the analysis, processing, retrieval and management of images; technology and automation in pathology; and strategic developments and emerging research. As well as being a comprehensive overview of the IC0604 COST program, the book includes a selection of papers from American and Japanese researchers working in the same field.
