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Unifying the Applications and Foundations of Biomedical and Health Informatics - J. Mantas 2016-07-21

Informatics and technology have become an intrinsic part of healthcare management in recent years; it is almost impossible to imagine a modern healthcare system without them. This book presents the proceedings of the 14th annual International Conference on Informatics, Management and Technology in Healthcare (ICIMTH), held in Athens, Greece, in July 2016. The conference treats the field of biomedical informatics in a very broad framework, and the 68 full papers included here examine the research and applications outcomes of informatics from cell to population, including a number of technologies such as imaging, sensors, mobile communications, biomedical equipment and management, as well as legal and societal issues related to the application of health informatics. The book is divided into sections: Biomedical Technology; Clinical Informatics; E-learning and Education; Formalisation of Knowledge, Ontologies, Clinical Guidelines and Standards of Healthcare; Health Informatics; Healthcare Management and Public Health; mHealth and Telemedicine; and Social Media and Health. Also included are two keynote speeches. Covering a wide spectrum of applications, the book will be of interest to all those working in the design, management and delivery of healthcare services whose work involves the

development or use of biomedical informatics.

Health and Medical Informatics Education in Europe - John Mantas 2000

After the success of the first two books with the proceedings of the newly established series of European conferences in Health Telematics Education the third one gives a new dimension in the field of Health and Medical Informatics Education in Europe. It deals with the needs and the current status in Health Telematics Education in Europe, with curriculum development in Health- Medical and Nursing Informatics, with development of courseware material, computer based training and computer assisted learning. Also distance learning and Internet applications, training in using Hospital Information Systems (HIS) and Departmental Information Systems, Inter-University programmes and accreditation of courses are discussed.

Mathematical Modelling in Medicine - Johnny T. Ottesen 2000

Title page -- Preface -- Contents -- Part I: Heart -- The Changing View of the Heart Through the Centuries -- The Left Ventricular Ejection Effect -- Human Circulatory System Model Based On Frank's Mechanism -- Modelling Blood Flow in the Left Side of the Heart -- Part II: Arterial Tree -- Models of the Arterial Tree -- A One-Dimensional Fluid Dynamic Model of the Systemic Arteries -- Measurement of Arterial Compliance In Vivo -- Models of the Venous System -- Part III: Baroreceptor Control -- General Compartmental Models of the Cardiovascular System -- Modelling the Interaction Among Several Mechanisms in the Short-term Arterial Pressure Control -- Short term Autonomic Nervous Control of the Cardiovascular System: A System Theoretic Approach -- A Baroreflex Model of Short Term Blood Pressure and Heart Rate Variability -- Part IV: Applications for Simulators -- Mathematical Models Behind Advanced Simulators in Medicine -- Cognitive Studies of Ethical Reasoning Based on the KARDIO-simulator -- Index -- Author Index

Advanced Infrastructures for Future Healthcare - Andy Marsh 2000

Applications of Fractal Theory on Medical Data Processing -- Novel Surface Reconstruction Techniques for Visualization of Medical Data -- Automatic Medical Image Registration Schemes using Global Optimization Techniques -- Wavelet Medical Signal Processing -- Multiresolutional Distributed Filtering: A Novel Technique that Reduces the Amount of Data Required in High Resolution Electrocardiography -- Arterial Motion Estimation from Sequences of Images -- Author Index

User Acceptance of Health Telematics Applications - Ilias Iakovidis 2000

Health Telematics Applications and User Acceptance from a Medical Student's point of view -- Author Index

Case Studies of Security Problems and Their Solutions - Gunnar O. Klein 2000

Title page -- Contents -- 1. Introduction -- 2 . The Legal Challenges -- 3. Trends in Health Telematics -- 4. The CoCo Guide to EDI Security -- 5. Security Architecture of the Star Project -- 6. The TrustHealth Pilot Experiment in Danderyd Hospital -- 7. Security Infrastructure for a Regional Electronic Medical Record -- 8. Security and the RHINE Project -- 9. The TIDDM Project and Security -- 10. Security Aspects in Relation to the HISA Standard Middleware Architecture -- 11. Using S/MIME for Health Insurance Claims - - 12. Summary of Described Security Problems and Solutions -- 13. Recommendations from SIREN -- 14. Authors -- 15. Bibliography -- 16. Websites -- Author Index

Digital Healthcare Empowering Europeans - R. Cornet 2015-05-08

The digitization of healthcare has become almost ubiquitous in recent years, spreading from healthcare organizations into the homes and personal appliances of practically every citizen. Thanks to the collective efforts of health professionals, patients and care providers as well as systems developers and researchers, the entire population of Europe is able to participate in and enjoy the benefits of digitized health information. This book presents the proceedings of the 26th Medical Informatics in Europe Conference (MIE2015), held in Madrid, Spain, in May 2015. The conference brings together participants who share their latest achievements in biomedical and health Informatics, including the role of the user in digital healthcare, and provides a forum for discussion of the inherent challenges to design and adequately deploy ICT tools, the assessment of health IT interventions, the training of users and the exploitation of available information and knowledge to further the continuous and ubiquitous availability and interoperability of medical information systems. Contributions address methodologies and applications, success stories and lessons learned as well as an overview of on-going projects and directions for the future. The book will be of interest to all those involved in the development, delivery and consumption of health and care information.

Research Into Spinal Deformities 3 - International Research Society of Spinal Deformities. Meeting 2002
Study of Marker Placements in the Back for Opto-electronic Motion Analysis -- User Friendly Computer Profilometry -- Surgery is Performed for Cosmetic Reasons -- Surgery is Performed for Functional Improvements -- Session 4: 3D Imaging -- Evaluation of the Efficiency of Patient Stabilization Devices for

3D X-ray Reconstruction of the Spine and Rib Cage -- Semi-Automatic Landmark Detection in Digital X-Ray Images of the Spine -- Does Transverse Apex Coincide with Coronal Apex Levels (Regional or Global) in Adolescent Idiopathic Scoliosis? -- Correlation Study between Indices Describing the Scoliotic Spine -- Simplified Calibration System for Stereoradiography in Scoliosis -- Rule-based Algorithm for Automated King-Type Classification of Idiopathic Scoliosis -- Augmented Reality in Spine Surgery. Critical Appraisal and Status of Development -- The Orientation of the Plane of Maximum Deformity of a Scoliotic Curve -- Modelling and Analysis of Vertebra Deformations with Spherical Harmonics -- Validation of the NSCP Technique on Scoliotic Vertebrae -- 3D Reconstruction and Analysis of the Vertebral Body Line -- 3D Reconstruction of the Pelvis Using the NSCP Technique -- Automatic Measurement of Scapula Position and Movement Using Rasterstereography -- Image Coding Technique for 3-D Back Reconstruction -- Ultra Low Dose X-ray Spinal Examinations -- Comparison of Rasterstereographs with MR Scans in Scoliotic Patients -- Session 5: 3D Location of the Rib Prominence and its Importance in the Treatment of Scoliotic Deformities -- 3D location of the Rib Prominence and its Importance in the Treatment of Scoliotic Deformities -- Session 6: Conservative Treatment -- Relationships between Strap Tension, Interface Pressures and Spine Correction in Brace Treatment of Scoliosis

Security Standards for Healthcare Information Systems - François-André Allaert 2002

Title page -- Foreword -- Acknowledgement -- A Security Parable -- Contents -- 1. Law and Standards faced with Market Rules -- 2. Why we need Standardisation in Healthcare Security -- 3. Overview on Security Standards for Healthcare Information Systems -- 4. Draft Standard for High Level Security Policies for Healthcare Establishments -- 5. Draft Secure Medical Database Standard -- 6. Demonstration Results for the Standard ENV 12924 -- 7. Secure HL7 Transactions Using Internet Mail (Internet Draft) -- 8. Standard Guide for EDI (HL7) Communication Security -- 9. Standard Guide for Implementing HL7 Communication Security -- 10. IT Security Training in the Healthcare Environment -- 11. Conclusions -- List of MEDSEC Deliverables -- List of MEDSEC Participants and their Addresses -- Author Index

Connecting Medical Informatics and Bio-informatics - Rolf Engelbrecht 2005

A variety of topics of bio-informatics, including both medical and bio-medical informatics are addressed by MIE. The main theme in this publication is the development of connections between bio-informatics and medical informatics. Tools and concepts from both disciplines can complement each other.

Medicine Meets Virtual Reality 02/10 - James D. Westwood 2002

Measurement of In-vivo Force Response of Intra-abdominal Soft Tissues for Surgical Simulation -- Estimation of Soft-Tissue Model Parameters Using Registered Pre- and Postoperative Facial Surface Scans -- Virtual Endoscopy using Spherical QuickTime-VR Panorama Views -- Integration of intraoperative radiotherapy (IORT) dose distribution into the postoperative CT-based external beam radiotherapy (EBRT) treatment planing -- The application of eyeglass displays in changing the perception of pain -- Evaluation of Visualization Techniques for Image-guided Navigation in Liver Surgery -- Enhanced stereographic x-ray images -- The Communication Between Therapist and Patient in Virtual Reality: The Role of Mediation Played by Computer Technology -- Virtual Reality Assisted Cognitive Behavioral Therapy for the Treatment of Panic Disorders with Agoraphobia. -- Dextrous and Shared Interaction with Medical Data: stereoscopic vision is more important than hand-image collocation -- Usability Analysis of VR Simulation Software -- Elastically Deformable 3D Organs for Haptic Surgical Simulation -- A Generic Arthroscopy Simulator Architecture -- Virtual Reality in 3D Echocardiography: Dynamic Visualization of Atrioventricular Annuli Surface Models and Volume Rendered Doppler-Ultrasound -- Engineering and Algorithm Design for an Image Processing API: A Technical Report on ITK - the Insight Toolkit -- Finite Element (FE) Modeling of the Mandible: from Geometric Model to Tetrahedral Volumetric Mesh -- Author Index

Health Data in the Information Society - György Surján 2002

MIE 2002 is the XVIIth international conference of the European Federation of Medical Informatics. Today, mankind builds up the information society, enabled by the underlying rapid development in computer technology. The significance of the spread of the internet is comparable to the significance of Gutenberg's invention. On one hand it both helps dissemination of data and knowledge and sharing of ideas. On the other hand the achievements may divide the society, as did non-literacy deprive many people from knowledge throughout centuries. Today millions of people are isolated from an incredibly large amount of information because of "computer non-literacy," and a new elite mastering the information society has appeared. However, the ease of production and dissemination of information may foster thoughtless communication, and has lead to a flood of information and disinformation. We have to learn how to behave in this new situation, in which the dissemination of information - at an international level - is totally uncontrolled. In the area of medical or health informatics these questions are more serious. Lack of information, false or inadequate information, as well as improper interpretation of accurate information may seriously harm patients. And the process may go out of control of the physician, i.e. patients can "treat"

themselves just by visiting some health sites on the net. Everybody may throw a message in a bottle in information flood, and everybody may pick up messages at any time. Can we do anything to ensure that all messages are valid? Can we guarantee that our messages reach the intended audience? Can we secure that content has not changed on its way? Do we know that people getting our messages will interpret them correctly? Are we able to understand the intention of a sender, when we get a message totally out of context? These questions build up the framework of MIE2002.

Digital Personalized Health and Medicine - L. B. Pape-Haugaard 2020-06-17

Digital health and medical informatics have grown in importance in recent years, and have now become central to the provision of effective healthcare around the world. This book presents the proceedings of the 30th Medical Informatics Europe conference (MIE). This edition of the conference, hosted by the European Federation for Medical Informatics (EFMI) since the 1970s, was due to be held in Geneva, Switzerland in April 2020, but as a result of measures to prevent the spread of the Covid19 pandemic, the conference itself had to be cancelled. Nevertheless, because this collection of papers offers a wealth of knowledge and experience across the full spectrum of digital health and medicine, it was decided to publish the submissions accepted in the review process and confirmed by the Scientific Program Committee for publication, and these are published here as planned. The 232 papers are themed under 6 section headings: biomedical data, tools and methods; supporting care delivery; health and prevention; precision medicine and public health; human factors and citizen centered digital health; and ethics, legal and societal aspects. A 7th section deals with the Swiss personalized health network, and section 8 includes the 125 posters accepted for the conference. Offering an overview of current trends and developments in digital health and medical informatics, the book provides a valuable information resource for researchers and health practitioners alike.

***Health in the New Communications Age* - Maria Fernanda Laires 1995**

This book presents the state of the art and trends in Health Care Telematics, the valuable results of the research and development work carried out by more than 50 projects during the AIM programme 1991-94. Project information regarding the dissemination and validation of the project results is elaborated and in the annex a full list of the participants in each project including contact details can be found. The second part of the book focuses on the shift of paradigm in the Health Care sector within the Information Society. This shift is characterised by a general turn from informatics towards multimedia telematics including the

Health Care Telematics. The new Telematics Application Programme under the Fourth Framework Programme for Research and Technological Development is user driven and focuses on the need for industry and users to collaborate and develop common solutions to secure validation and exploitation of the research results. The book gives an insight into the state of the art in a world wide context and helps the reader to understand the trends in Health Telematics. The target groups for reading the book are besides experts, researchers and industry in the area as well as decision makers and potential users of Health Telematics. Covered by Current Contents, Life Sciences (ISI), volume 39, no. 9, Februari 1996, p. 15-18 "The book gives insight into the state of the art in a worldwide context and helps the reader to understand current trends in European health telematics" Health Informatics Europe, volume 4, no. 1, March 1996, p. 14

Medical Informatics Europe '96 - Jytte Brender 1996

MIE 96 is the main medical informatics and telematics event in 1996. MIE 96 is the place where users meet industry, where decision makers are presented with the available informatics and telematics solutions to major challenges in modern medicine and its delivery. An awareness is raising within the healthcare sector of the huge potential in applying IT-based solutions as means for quality assurance and cost-containment.

Medical Informatics in a United and Healthy Europe - European Federation for Medical Informatics. International Congress 2009

This volume contains the proceedings of the twenty-second International Conference on Medical Informatics Europe MIE 2009, that was held in Sarajevo, Bosnia and Herzegovina, from 30 August to 2 September 2009. The scientific topics present in this proceedings range from national and trans-national eHealth roadmaps, health information and electronic health record systems, systems interoperability and communication standards, medical terminology and ontology approaches, and social networks to Web, Web 2.0, and Semantic Web solutions for patients, health personnel, and researchers. Furthermore, they include quality assurance and usability of medical informatics systems, specific disease management and telemedicine systems, including a section on devices and sensors, drug safety, clinical decision support and medical expert systems, clinical practice guidelines and protocols, as well as issues on privacy and security. Moreover, bioinformatics, biomedical modeling and simulation, medical imaging and visualization and, last but not least, learning and education through medical informatics systems are parts of the

included topics.

Medical Informatics Europe '99 - P. Kokal 1999

Medical Informatics Europe '97 - Costas Pappas 1997

Advances in Medical Informatics - J. M. Noothoven van Goor 1992

Numerous experts in hospitals, universities, research institutes, industry and health agencies responded to the call of the commission of the European Communities for project proposals in the field of research and development of medical informatics, the AIM Exploratory Action. AIM is the acronym for Advanced Informatics in Medicine. The main objective of the AIM Programme is to further the usage of information technology and telecommunications in health care in the Community.

Handbook of Research on Distributed Medical Informatics and E-Health - Lazakidou, Athina A. 2008-08-31

Provides coverage of specific topics and issues in healthcare, highlighting recent trends and describing the latest advances in the field.

EHealth Beyond the Horizon - European Federation for Medical Informatics. International Congress 2008

The first part of the MIE 2008 conference theme - eHealth Beyond the Horizon - highlights the expectations for the future of ehealth and raises the question: What sort of developments in ehealth services can we imagine emerging above the horizon in the years to come? EHealth Beyond the Horizon contains a good number of high-quality papers giving different perspectives of this future, some of them already available today in pilot scale, some of them outlined in visions. The second part of the theme - Get IT There - has triggered a large number of papers describing how to create, evaluate, adjust and deliver products and deploy services in healthcare organizations for the necessary information technology as a basis for the ehealth applications that are essential in order to respond to the challenges of the health systems. The papers in the proceedings are grouped by themes according to the submission categories and the supplied keywords. As the last theme, three doctoral students from different areas of medical informatics were selected to present and discuss their research under the guidance of a panel of distinguished research faculties.

Education and Training in Health Informatics in Europe - A. Hasman 1995

A European wide survey on the EDUCTRA (Education and Training in Health Informatics) Concerted

Action, was commenced in 1992 under the auspices of the AIM (Advanced Informatics in Medicine in Europe) programme. This book consists of four parts. The first chapter reproduces the original EC Recommendation and outlines the concerted European efforts in education and training in health telematics made by the European Commission, DG XIII Health Telematics office. The second part provides the general guidelines for European curricula in health informatics as they were developed and elaborated by the members of the EDUCTRA Concerned Action (1992-1994). The third part of this volume entails the detailed descriptions and applications of curricula in health informatics in European states. The fourth part consists of a glossary of terms and acronyms used in current research and practice of health informatics. The work provides a comprehensive overview of the current needs in health informatics in Europe but also the necessary guidelines, materials, tools and applications for improving education and training within the near future. Readers: medicine and health care professionals, administrators, health professionals, teachers and trainers. "The work provides not only a comprehensive overview of the current needs in health informatics in Europe, but also the necessary guidelines, materials, tools and applications for improving education and training within the near future." Health Informatics Europe, volume 3, no. 2, November 1995, p. 15

MEDINFO 2001 - Vimla L. Patel 2001

Technological infrastructure - Standards for interworking - Human-computer interaction - Knowledge representation - Information management - Decision support - Electronic patient records - Health information systems - Patient care aspects/telematics.

Medicine Meets Virtual Reality 11 - James D. Westwood 2003

Case Mix - Francis H. Roger France 2001

The case mix concept has been introduced in the USA more than twenty years ago in order to measure hospital productivity and to promote quality of care. The DRGs were selected by HCFA in 1983 as the case mix classification system for the MEDICARE prospective payment system (PPS). Many other countries have adopted the case mix concept after long periods of testing and accepting, but with large variations in data collection, information standards, grouping tools, financing methods and quality of care developments all over the world. Each country has developed a local clinical and political culture about case mix tools. The present book is intended to update the case mix situation, country by country.

Medical Informatics Europe '99 - Peter Kokol 1999

This volume seeks to reflect the state of the art on medical informatics. It presents ideas that will guide the process of medical informatics. Topics in the book include: information systems in health care and medicine; telemedicine and telematics; security; biomedical processing, data mining and knowledge discovery; training and education; Internet/intranet; resources management; intelligent medical systems; health guidelines and protocols; electronic patient encounter, card technology, electronic data interchange; terminology; nursing informatics.

Informatics for Health: Connected Citizen-Led Wellness and Population Health - R. Randell 2017-05-30

Over recent years there has been major investment in research infrastructure to harness the potential of routinely collected health data. In 2013, The Farr Institute for Health Informatics Research was established in the UK, undertaking health informatics research to enhance patient and public health by the analysis of data from multiple sources and unleashing the value of vast sources of clinical, biological, population and environmental data for public benefit. The Medical Informatics Europe (MIE) conference is already established as a key event in the calendar of the European Federation of Medical Informatics (EFMI); The Farr Institute has been establishing a conference series. For 2017, the decision was made to combine the power and established reputational excellence of EFMI with the emerging and innovative research of The Farr Institute community to create 'Informatics for Health 2017', a joint conference that creates a scientific forum allowing these two communities to share knowledge, insights and experience, advance cross-disciplinary thinking, and stimulate creativity. This book presents the 116 full papers presented at that conference, held in Manchester, UK in April 2017. The papers are grouped under five headings: connected and digital health; health data science; human, organisational, and social aspects; knowledge management; and quality, safety, and patient outcomes, and the book will be of interest to all those whose work involves the analysis and use of data to support more effective delivery of healthcare.

Large Scale Projects in EHealth - European Federation for Medical Informatics. Special Topic Conference 2012

This publication reflects the objective of the conference to highlight large scale projects supporting the use of information and communication technology (eHealth) at national, regional, and also at international level. It results in requirements for national and regional solutions for medical informatics and health information management.

A Legal Framework for Security in European Health Care Telematics - Otto Rienhoff 2000

Title page -- Preface: Prof. Dr. Herbert Burkert -- Preface: Prof. Dr. Heyo Eckel -- Table of Contents -- Executive Summary -- Zusammenfassung -- Resume -- Resumen -- Sammanfattning -- The Editors, Key Authors, and Experts -- 1. Digital Signatures and Encryption as Key Elements of Security in Health Telematics -- 2. Methodologies Used in the Legal Studies -- 3. Liability Reference Model -- 4. Strategic Reference Model -- 5. Specific Issues in Health Care -- 6. Outlook -- 7. Materials -- Index of Subjects and Names

Public Health and Informatics - J. Mantas 2021-07

For several years now, both eHealth applications and digitalization have been seen as fundamental to the new era of health informatics and public health. The current pandemic situation has also highlighted the importance of medical informatics for the scientific process of evidence-based reasoning and decision making at all levels of healthcare. This book presents the accepted full papers, short papers, and poster papers delivered as part of the 31st Medical Informatics in Europe Conference (MIE 2021), held virtually from 29-31 May 2021. MIE 2021 was originally due to be held in Athens, Greece, but due to the continuing pandemic situation, the conference was held as a virtual event. The 261 papers included here are grouped into 7 chapters: biomedical data, tools and methods; supporting care delivery; health and prevention; precision medicine and public health; human factors and citizen centered digital health; ethics, legal and societal aspects; and posters. Providing a state-of-the-art overview of medical informatics from around the world, the book will be of interest to all those working with eHealth applications and digitalization to improve the delivery of healthcare today.

Medicine Meets Virtual Reality 2001 - James D. Westwood 2001

Anatomical Accuracy in Medical 3D Modeling

Analysis, Design and Implementation of Secure and Interoperable Distributed Health Information Systems

- Bernd Blobel 2002

This book is an introduction into methodology and practice of analysis, design and implementation of distributed health information systems. Special attention is dedicated to security and interoperability of such systems as well as to advanced electronic health record approaches. In the book, both available architectures and implementations but also current and future innovations are considered. Therefore, the component paradigm, UML, XML, eHealth are discussed in a concise way. Many practical solutions

specified and implemented first in the author's environment are presented in greater detail. The book addresses information scientists, administrators, health professionals, managers and other users of health information systems.

European Neurological Network - Teresa Paiva 2000

Medical Informatics in a United and Healthy Europe - European Federation for Medical Informatics.

International Congress 2009-08-14

This volume contains the proceedings of the twenty-second International Conference on Medical Informatics Europe MIE 2009, that was held in Sarajevo, Bosnia and Herzegovina, from 30 August to 2 September 2009. The scientific topics present in this proceedings range from national and trans-national eHealth roadmaps, health information and electronic health record systems, systems interoperability and communication standards, medical terminology and ontology approaches, and social networks to Web, Web 2.0, and Semantic Web solutions for patients, health personnel, and researchers. Furthermore, they include quality assurance and usability of medical informatics systems, specific disease management and telemedicine systems, including a section on devices and sensors, drug safety, clinical decision support and medical expert systems, clinical practice guidelines and protocols, as well as issues on privacy and security. Moreover, bioinformatics, biomedical modeling and simulation, medical imaging and visualization and, last but not least, learning and education through medical informatics systems are parts of the included topics.

Information Technology Strategies from the United States and the European Union - E. Andrew Balas 2000

Title page -- Introduction -- Acknowledgements -- Contents -- Information Infrastructure for Transferring Research -- Transferring Research Through High Performance Computing -- Retooling Practitioners in the Information Age -- Towards a Health Telematics Infrastructure in the European Union -- Interaction Between Clinical Research and Patient Data -- Structuring Knowledge for Practical Application -- Digital Library Research and Application -- Knowledge and Change in Health Care Organizations -- Incorporating Knowledge into Commercially Available Systems -- Practical Solutions: Better Information for Improved Health Care Quality -- Opportunities for Improving Quality in the Health Care Industry -- Information Services that Make Patients Co-Producers of Quality Health Care -- Partnership for Excellence in Asthma Care: Evidence-Based Disease Management -- Author Index

Decision Support Systems and Education - European Federation for Medical Informatics. Special Topic Conference 2018

Medical informatics has revolutionized healthcare in recent years, and one of the major challenges now faced by health professionals everywhere is the further improvement of healthcare by making more effective use of the data from biomedical informatics, not least for education and decision support. This book presents the 52 full papers (accepted from 95 initial submissions) delivered at the Special Topic Conference of the European Federation for Medical Informatics (EFMI STC 2018), held in Zagreb, Croatia, on 15 and 16 October 2018. The EFMI STC is one of Europe's leading conferences for the sharing of current professional and scientific knowledge in health informatics processes, and the topics covered here have been broadly divided into two sections; decision support and education. Offering an overview of current medical informatics research, this book will undoubtedly prove invaluable for the professional development of healthcare practitioners, as well as contributing to knowledge sustainability within the field of medical informatics.

RoboCup 2006: Robot Soccer World Cup X - Gerhard Lakemeyer 2007-09-04

This book constitutes the 10th official archival publication devoted to RoboCup. It documents the achievements presented at the RoboCup 2006 International Symposium, held in Bremen, Germany, in June 2006, in conjunction with the RoboCup Competition. It serves as a valuable source of reference and inspiration for those interested in robotics or distributed intelligence.

The Practice of Patient Centered Care - European Federation for Medical Informatics. Special Topic Conference 2017

Medical informatics is increasingly central to the effective and efficient delivery of healthcare today. This book presents the proceedings of the European Federation for Medical Informatics Special Topic Conference (EFMI STC 2017), held in Tel Aviv, Israel, in October 2017. The theme and title of the 2017 edition of this annual conference is 'The practice of patient centered care: Empowering and engaging patients in the digital era'. The aim of the conference series is to increase interaction and collaboration between the stakeholder groups from both health and ICT across, but not limited to, Europe by providing a platform for researchers, data scientists, practitioners, decision makers and entrepreneurs to discuss sustainable and inclusive digital health innovations aimed at the engagement and empowerment of patients/consumers. The book is divided into 3 sections: full papers, short communications, and posters,

and covers a wide range of topics from the field of medical informatics. It will be of interest to healthcare planners and providers everywhere.

Caring is Sharing — Exploiting the Value in Data for Health and Innovation - M. Hägglund 2023-06-22

Modern information and communication technologies make it easier for individuals to be involved in their own health and social care. They also facilitate contact between individuals and service providers and deliver more efficient tools for healthcare staff. Artificial Intelligence (AI) promises to bring even more benefits in the future, with more effectiveness and the provision of decision support. This book presents the proceedings of the 33rd Medical Informatics Europe Conference, MIE2023, held in Gothenburg, Sweden, from 22 to 25 May 2023. The theme of MIE2023 was ‘Caring is Sharing – Exploiting Value in Data for Health and Innovation’, stressing the increasing importance of sharing digital-health data and the related challenges. The sharing of health data is developing rapidly, both in Europe and beyond, so the focus of the conference was on the enabling of trustworthy sharing of data to improve health. Topics covered include healthcare, community care, self-care, public health, and the innovation and development of future-proof digital-health solutions, and the almost 300 papers divided into 10 chapters also cover important advances in the sub domains of biomedical informatics: decision support systems, clinical information systems, clinical research informatics, knowledge management and representation, consumer health informatics, natural language processing, public health informatics, privacy, ethical and societal aspects among them. Describing innovative approaches to the collection, organization, analysis, and data-sharing related to health and wellbeing, the book contributes to the expertise required to take medical informatics to the next level, and will be of interest to all those working in the field.

Future of Health Technology - Renata Glowacka Bushko 2002

This text provides a comprehensive vision of the future of health technology by looking at the ways to advance medical technologies, health information infrastructure and intellectual leadership. It also explores technology creations, adoption processes and the impact of evolving technologies.