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## Digital healthcare empowering Europeans

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# Digital Healthcare Empowering Europeans

Proceedings of MIE2015

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## Preface

This volume contains the proceedings of the MIE2015 conference, “Digital healthcare empowering Europeans”, highlighting the impact that digitisation has on all citizens, medical staff, patients and their carers. Over decades digitisation of healthcare has become almost ubiquitous, spreading from healthcare organisations into the homes and personal appliances of practically every citizen. Similarly, biomedical and health informatics has spread from dedicated manufacturers to the largest information technology companies.

MIE2015, the 26th Medical Informatics in Europe Conference, has been jointly organised by the European Federation for Medical Informatics (EFMI) and the Spanish Society of Health Informatics (SEIS), organisations which were both established in 1976. MIE2015 takes place in the splendid city of Madrid, Spain, from May 27th to 29th, 2015. EFMI is a federation of national medical informatics associations from 30 European countries, and its purpose is to develop and disseminate knowledge and expertise in the field of biomedical and health informatics. Besides the national associations, the working groups, which include experts in specialist fields ranging from electronic patient records, medical imaging, and evaluation to nursing and rehabilitation, are the main channel through which new knowledge and ideas are developed and disseminated.

“**Digital healthcare empowering Europeans**”, the theme of MIE2015, is addressing a range of important aspects, relating to opportunities for or impact of new approaches and IT tools in day-to-day life affecting the citizens. The conference theme aligns with collective efforts of multiple parties: patients, care providers, system developers, researchers, and ultimately the entire population of Europe to join in to enjoy benefits that digitisation of health information offers. Digitisation enables involvement of people in management of their own health and empowers people to be in more control of all aspects of their health and for the care they require. The conference provokes discussions of inherent challenges to design and adequately deploy ICT tools, to assess health IT interventions, train users, and exploit available information and knowledge to scrutinise visions for continuous and ubiquitous availability and interoperability in health care. MIE2015 brings together participants that share their latest achievements in biomedical and health informatics, including the role of the user in digital healthcare, where interdisciplinary collaboration may achieve care, and treatment processes supporting quality of life for citizens, healthcare providers, and the society. Contributions address methodologies and applications, success stories and lessons learned as well as an outlook on on-going projects and directions for the future.

The editors would like to thank all the authors from 43 countries for their excellent work as well as the 310 reviewers for lending their expertise to the conference, thereby contributing to the final achievements. Special thanks go to the Spanish Local Organizing Committee for the contribution in hosting the conference and to EFMI President Anne Moen for her constant commitment to a great event.



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# Contents

Preface	v
<i>Ronald Cornet, Lăcrămioara Stoicu-Tivadar, Alexander Hörbst,     Carlos Luis Parra Calderón, Stig Kjær Andersen     and Mira Hercigonja-Szekeres</i>	
Reviewers for MIE2015	vii
<b>Papers</b>	
<b>1. Information and Knowledge Representation and Processing</b>	
Incidence Rate of Canonical vs. Derived Medical Terminology in Natural Language	5
<i>Vasile Topac, Daniel-Alexandru Jurcau and Vasile Stoicu-Tivadar</i>	
Expertizer: A Tool to Assess the Expert Level of Online Health Websites	10
<i>Richard Zowalla, Martin Wiesner and Daniel Pfeifer</i>	
A Connecting System for Cardiological Lexicons	15
<i>Stefano Bonacina, Sara Marceglia, Veronica Pinello, Silvia Magni         and Francesco Pincioli</i>	
A Framework for Contextual Design and Evaluation of Health Information Technology	20
<i>Craig Kuziemsky and Andre Kushniruk</i>	
Observing Health Professionals' Workflow Patterns for Diabetes Care – First Steps Towards an Ontology for EHR Services	25
<i>M. Schweitzer, N. Lasierra and A. Hoerbst</i>	
Discovering the Role of Morphology on the Understanding of Biomedical Terminology by Paramedical Students	30
<i>Meriem Rais and Natalia Grabar</i>	
Simulating Realistic Enough Patient Records	35
<i>James Cunningham and John Ainsworth</i>	
From IHE Audit Trails to XES Event Logs Facilitating Process Mining	40
<i>Ferdinand Paster and Emmanuel Helm</i>	
Participatory Design for Drug-Drug Interaction Alerts	45
<i>Daniel Luna, Carlos Otero, Alfredo Almerares, Enrique Stanziola,         Marcelo Risk and Fernán González Bernaldo de Quirós</i>	
Automatic Extraction of Numerical Values from Unstructured Data in EHRs	50
<i>Elise Bigeard, Vianney Jouhet, Fleur Mougin, Frantz Thiessard         and Natalia Grabar</i>	

Exploring Brand-Name Drug Mentions on Twitter for Pharmacovigilance <i>Pablo Carbonell, Miguel A. Mayer and Àlex Bravo</i>	55
Methods for Sonic Representation of Heart Rate During Exercise <i>Minodora Andor, Anca Tudor, Sorin Paralescu and George I. Mihalas</i>	60
Development of a Database and Processing Method for Detecting Hematotoxicity Adverse Drug Events <i>Yoshie Shimai, Toshihiro Takeda, Shirou Manabe, Kei Teramoto, Naoki Mihara and Yasushi Matsumura</i>	65
Synthesizing Analytic Evidence to Refine Care Pathways <i>Haifeng Liu, Xiang Li, Yiqin Yu, Jing Mei, Guotong Xie, Adam Perer, Fei Wang and Jianying Hu</i>	70
Content Based Image Retrieval Using Local Binary Pattern Operator and Data Mining Techniques <i>Oana Astrid Vatamanu, Mirela Frandesc, Diana Lungeanu and Gheorghe-Ioan Mihalas</i>	75
Health Consumer-Oriented Information Retrieval <i>Vincent Claveau, Thierry Hamon, Sébastien Le Maguer and Natalia Grabar</i>	80
A Methodology for Mining Clinical Data: Experiences from TRANSFoRm Project <i>Roxana Danger, Derek Corrigan, Jean K. Soler, Przemyslaw Kazienko, Tomasz Kajdanowicz, Azeem Majeed and Vasa Curcin</i>	85
Use of Eye-Tracking Technology in Clinical Reasoning: A Systematic Review <i>Katherine Blondon, Rolf Wipfli and Christian Lovis</i>	90
Visual Analytics in Medical Education: Impacting Analytical Reasoning and Decision Making for Quality Improvement <i>Christos Vaitisis, Gunnar Nilsson and Nabil Zary</i>	95
Why Do We Need and How Can We Realize a Multi-Disciplinary Approach to Health Informatics? <i>Bernd Blobel, Frank Oemig and Diego M. Lopéz</i>	100
Investigation of the Quality and Effectiveness of Telemedicine in Children with Diabetes <i>Aikaterini Chorianopoulou, Paschalina Lialiou, Enkeleint-Aggelos Mechili, John Mantas and Marianna Diomidous</i>	105
How to Use Concept Mapping to Identify Barriers and Facilitators of an Electronic Quality Improvement Intervention <i>Mariëtte van Engen-Verheul, Niels Peek, Tom Vromen, Monique Jaspers and Nicolette de Keizer</i>	110
Insights and Limits of Usability Evaluation Methods Along the Health Information Technology Lifecycle <i>Romarie Marcilly, Andre W. Kushniruk, Marie-Catherine Beuscart-Zephir and Elizabeth M. Borycki</i>	115

Improvement of Diagnosis Coding by Analysing EHR and Using Rule Engine: Application to the Chronic Kidney Disease <i>Jérémie Lardon, Hadyl Asfari, Julien Souvignet, Béatrice Trombert-Paviot and Cédric Bousquet</i>	120
Multidisciplinary Modelling of Symptoms and Signs with Archetypes and SNOMED-CT for Clinical Decision Support <i>Luis Marco-Ruiz, J. Alberto Maldonado, Randi Karlsen and Johan G. Bellika</i>	125
Auditing of SNOMED CT's Hierarchical Structure Using the National Drug File – Reference Terminology <i>Aleksandr Zakharchenko and James Geller</i>	130
Design, Development and First Validation of a Transcoding System from ICD-9-CM to ICD-10 in the IT.DRG Italian Project <i>Vincenzo Della Mea, Omar Vuattolo, Lucilla Frattura, Flavia Munari, Eleonora Verdini, Loris Zanier, Laura Arcangeli and Flavia Carle</i>	135
Re-Use of SNOMED CT Subset in Development of the Danish National Standard for Home Care Nursing Problems <i>Anne Randorff Højen, Kirstine Rosenbeck Gøeg and Pia Britt Elberg</i>	140
Multi-Agent Architecture for the Multi-Skill Tasks Modeling at the Pediatric Emergency Department <i>Ines Ajmi, Hayfa Zgaya, Slim Hammadi, Lotfi Gammoudi, Alain Martinot, Régis Beuscart and Jean-Marie Renard</i>	145
Clinical Decision Support Using a Terminology Server to Improve Patient Safety <i>Alba Garcia-Jimenez, Alberto Moreno-Conde, Alicia Martínez-García, Ignacio Marín-León, Francisco Javier Medrano-Ortega and Carlos L. Parra-Calderón</i>	150
Biomarkers in the Ontology for General Medical Science <i>Werner Ceusters and Barry Smith</i>	155
Toward a Patient Safety Upper Level Ontology <i>Julien Souvignet and Jean-Marie Rodrigues</i>	160
Lessons Learned in the Generation of Biomedical Research Datasets Using Semantic Open Data Technologies <i>Maria del Carmen Legaz-García, José Antonio Miñarro-Giménez, Marcos Menárguez-Tortosa and Jesualdo Tomás Fernández-Breis</i>	165
Semantic Interoperable Electronic Patient Records: The Unfolding of Consensus Based Archetypes <i>Rune Pedersen, Rolf Wynn and Gunnar Ellingsen</i>	170
Toward a Use Case Based Classification of Mobile Health Applications <i>Mobin Yasini and Guillaume Marchand</i>	175

Combining Archetypes with Fast Health Interoperability Resources in Future-Proof Health Information Systems <i>Diego Bosca, David Moner, Jose Alberto Maldonado and Montserrat Robles</i>	180
An IT Architecture for Systems Medicine <i>Matthias Ganzinger, Matthias Gietzelt, Christian Karmen, Daniel Firnkorn and Petra Knaup</i>	185
Outcome-Driven Evaluation Metrics for Treatment Recommendation Systems <i>Jing Mei, Haifeng Liu, Xiang Li, Yiqin Yu and Guotong Xie</i>	190
Identifying Redundant and Missing Relations in the Gene Ontology <i>Fleur Mougin</i>	195
Integrating Low-Cost Rapid Usability Testing into Agile System Development of Healthcare IT: A Methodological Perspective <i>Andre W. Kushniruk and Elizabeth M. Borycki</i>	200
Interactive Resistance Chair to Promote Strengthening Exercise in Older Adults <i>In cheol Jeong and Joseph Finkelstein</i>	205
Version Changes in Medical Software: Proposing Minimal Requirements for Release Notes and a Version Number Convention – An Operators’ Point of View <i>Janko Ahlbrandt, Constantin Bott, Peter Moll, Tolga Naziyok, Raphael W. Majeed and Rainer Röhrig</i>	210
Normalized Medical Information Visualization <i>Ricardo Sánchez-de-Madariaga, Adolfo Muñoz, Roberto Somolinos, Antonio Castro, Iker Velázquez, Oscar Moreno, José L. García-Pacheco, Mario Pascual and Carlos H. Salvador</i>	215
META-GLARE: A Shell for CIG Systems <i>Alessio Bottrighi, Stefania Rubrichi and Paolo Terenziani</i>	218
Enrich Classifications in Psychiatry with Textual Data: An Ontology for Psychiatry Including Social Concepts <i>Marion Richard, Xavier Aimé, Marie-Odile Krebs and Jean Charlet</i>	221
Reuse of EHRs to Support Clinical Research in a Hospital of Reference <i>Miguel A. Mayer, Laura I. Furlong, Pilar Torre, Ignasi Planas, Francesc Cots, Elisabet Izquierdo, Jordi Portabella, Javier Rovira, Alba Gutierrez-Sacristan and Ferran Sanz</i>	224
A New Approach for Cleansing Geographical Dataset Using Levenshtein Distance, Prior Knowledge and Contextual Information <i>Adrien Ugon, Thomas Nicolas, Marion Richard, Patrick Guerin, Pascal Chansard, Christophe Demoor and Laurent Toubiana</i>	227
Prediabetes and Cardiovascular Risk Alert Programs – Useful Tools for Preventing Diabetes Mellitus and Cardiovascular Events in Primary Medicine <i>Horia Virgolici, Bogdana Virgolici and Victor Purcarea</i>	230

Filling the Gap Between Guideline Development and Formalization Process – A Requirement Analysis <i>Soudabeh Khodambashi and Øystein Nytrø</i>	233
Electronic Patient Records System as a Monitoring Tool <i>Michael Shifrin, Natalia Kurdumova, Gleb Danilov, Olga Ershova, Ivan Savin, Irina Alexandrova, Ekaterina Sokolova and Togrul Tabasaranaskiy</i>	236
<b>2. Health Information Management</b>	
IANUA: A Regional Project for the Determination of Costs in HIV-Infected Patients <i>Barbara Giannini, Roberta Gazzarata, Patrizia Orcamo, Caterina Merlano, Giovanni Cenderello, Alberto Venturini, Antonio Di Biagio, Giovanni Mazzarello, Marcello Montefiori, Marta Ameri, Maurizio Setti, Claudio Viscoli, Giovanni Cassola and Mauro Giacomini</i>	241
Can eHealth Reduce Medical Expenditures of Chronic Diseases? <i>Masatsugu Tsuji, Sheikh Abu Taher and Yusuke Kinai</i>	246
Secure Public Cloud Platform for Medical Images Sharing <i>Wei Pan, Gouenou Coatrieux, Dalel Bouslimi and Nicolas Prigent</i>	251
Implementability of Stroke Guidelines: A Pragmatic Comparison Between US and European Recommendations Using eGLIA <i>Andrea Freixa, Tiago Moreira, Olivier Bill and Nadim Anani</i>	256
Online Pharmaceutical Care Provision: Full-Implementation of an eHealth Service Using Design Science Research <i>João Gregório, Ângela Pizarro, Afonso Cavaco, Rolf Wipfli, Christian Lovis, Miguel Mira da Silva and Luís Velez Lapão</i>	261
A System Dynamics Approach to Analyze Laboratory Test Errors <i>Shijing Guo, Abdul Roudsari and Artur d'Avila Garcez</i>	266
A Template-Based Computerized Instruction Entry System Helps the Communication Between Doctors and Nurses <i>Toshihiro Takeda, Naoki Mihara, Rie Nakagawa, Shiro Manabe, Yoshie Shimai, Kei Teramoto and Yasushi Matsumura</i>	271
Data Quality Evaluation in Medical Database Watermarking <i>Javier Franco-Contreras, Gouenou Coatrieux, Philippe Massari, Stefan Darmoni, Nora Cuppens-Boulahia, Frédéric Cuppens and Christian Roux</i>	276
E-Health Stakeholders Experiences with Clinical Modelling and Standardizations <i>Kirstine Rosenbeck Gøeg, Pia Britt Elberg and Anne Randorff Høj</i>	281

An Adaptive Scheduling Model for a Multi-Agent Based VEPR Data Collection Actions <i>Pedro Vieira-Marques, Jorge Jácome, José Hilário-Patriarca and Ricardo Cruz-Correia</i>	286
Secondary Use of Structured Patient Data: Interim Results of a Systematic Review <i>Riikka Vuokko, Päivi Mäkelä-Bengs, Hannele Hyppönen and Persephone Doupi</i>	291
Implementing a Tele-Expertise System to Optimise the Antibiotic Use and Stewardship: The Case of the Montpellier University Hospital (France) <i>D. Morquin, R. Ologeanu-Taddei, Y. Koumar, R. Bourret and J. Reynes</i>	296
Exploring User Experience of a Telehealth System for the Danish TeleCare North Trial <i>Pernille Heyckendorff Lilholt, Lisa Korsbakke Emtekær Hæsum and Ole Kristian Hejlesen</i>	301
Engaging in Large-Scale Digital Health Technologies and Services. What Factors Hinder Recruitment? <i>Siobhan O'Connor, Frances S. Mair, Marilyn McGee-Lennon, Matt-Mouley Bouamrane and Kate O'Donnell</i>	306
Development and Trial of ePoint.telemed – An Open Web-Based Platform for Home Monitoring of Chronic Heart Failure Patients <i>J. Artur Serrano and Halgeir Holthe</i>	311
Mobile Technology Support for Clinical Decision in Diabetic Keto-Acidosis Emergency <i>Mirela Frandes, Bogdan Timar, Alexandra Tole, Stefan Holban and Diana Lungeanu</i>	316
Nursing Intervention Using Smartphone Technologies; A Systematic Review and Meta-Analysis <i>Eunjoo Jeon and Hyeoun-Ae Park</i>	321
<b>3. Healthcare Service Delivery</b>	
Clinical Data Warehousing for Evidence Based Decision Making <i>Lekha Narra, Tony Sahama and Peta Stapleton</i>	329
Using a Snowflake Data Model and Autocompletion to Support Diagnostic Coding in Acute Care Hospitals <i>Joseph Noussa-Yao, Abdelali Boussadi, Monique Richard, Didier Heudes and Patrice Degoulet</i>	334
Planning, Execution and Monitoring of Physical Rehabilitation Therapies with a Robotic Architecture <i>José Carlos González, José Carlos Pulido, Fernando Fernández and Cristina Suárez-Mejías</i>	339

Clinical Practice Guidelines Consistency for Patients with Multimorbidity: A Case-Study in the Management of Type 2 Diabetes and Hypertension <i>Alexandre Galopin, Jacques Bouaud, Suzanne Pereira and Brigitte Séroussi</i>	344
Approach to Extract Billing Data from Medical Documentation in Russia – Lessons Learned <i>Georgy Kopanitsa and Vladimir Yampolskiy</i>	349
Integrated Wireless Sensor Network for Monitoring Pregnant Women <i>Adina Nițulescu, Mihaela Crișan-Vida, Lăcrămioara Stoicu-Tivadar and Elena Bernad</i>	354
Devising Outlier-Based Alerts for Medication Orders <i>Gouri Prakash</i>	359
Diagnostic Imaging Requisition Quality when Using an Electronic Medical Record: A Before-After Study <i>Marc Benard, Jacques Bouaud, Claude Marsault, Frank Boudghene, Marie-France Carette and Brigitte Séroussi</i>	364
Using EHRs for Heart Failure Therapy Recommendation Using Multidimensional Patient Similarity Analytics <i>Maryam Panahiazar, Vahid Taslimitehrani, Naveen L. Pereira and Jyotishman Pathak</i>	369
Nurses' Expectations and Perceptions of a Redesigned Electronic Health Record <i>Zulma Gonzalez, Francisco Recondo, Janine Sommer, Bibiana Schachner, Gabriela Garcia, Daniel Luna and Sonia Benítez</i>	374
Mapping Russian Laboratory Terms to LOINC <i>Georgy Kopanitsa</i>	379
Managing Uncertainties in the Surgical Scheduling <i>Lisa Wiyartanti, Myon Woong Park, Dahee Chung, Jae Kwan Kim, Young Tae Sohn and Gyu Hyun Kwon</i>	384
Electronic Whiteboards: Review of the Literature <i>Rebecca Randell, Joanne Greenhalgh, Jeremy Wyatt, Peter Gardner, Alan Pearman, Stephanie Honey and Dawn Dowding</i>	389
Evaluation of Compliance with Recommendations of Prevention of Thromboembolism in Atrial Fibrillation in the Elderly, by Data Reuse of Electronic Health Records <i>Laurie Ferret, Jean-Baptiste Beuscart, Grégoire Ficheur, Régis Beuscart, Michel Luyckx and Emmanuel Chazard</i>	394
Automatic Landmarks Detection in Breast Reconstruction Aesthetic Assessment <i>Francisco J. Niñez-Benjumea, Carmen Serrano and Begoña Acha</i>	399
A Multi-Method Pilot Evaluation of an Online Diabetes Exercise System <i>Clara Schaarup and Ole K. Hejlesen</i>	404

EpiHosp: A Web-Based Visualization Tool Enabling the Exploratory Analysis of Complications of Implantable Medical Devices from a Nationwide Hospital Database <i>Grégoire Ficheur, Lionel Ferreira Careira, Régis Beuscart and Emmanuel Chazard</i>	409
An Ontology for Healthcare Quality Indicators: Challenges for Semantic Interoperability <i>Pam White and Abdul Roudsari</i>	414
Improvement of the Quality of Medical Databases: Data-Mining-Based Prediction of Diagnostic Codes from Previous Patient Codes <i>Mehdi Djennaoui, Grégoire Ficheur, Régis Beuscart and Emmanuel Chazard</i>	419
Blinded Anonymization: A Method for Evaluating Cancer Prevention Programs Under Restrictive Data Protection Regulations <i>Sebastian Bartholomäus, Hans Werner Hense and Oliver Heidinger</i>	424
How to Assist Intensive Care Units in Improving Healthcare Quality. Development of Actionable Quality Indicators on Blood Use <i>Marie-José Roos-Blom, Dave Dongelmans, M. Sesmu Arbous, Evert de Jonge and Nicolette de Keizer</i>	429
Integrated Care: An Information Model for Patient Safety and Vigilance Reporting Systems <i>Jean-Marie Rodrigues, Stefan Schulz and Julien Souvignet</i>	434
Supporting in- and off-Hospital Patient Management Using a Web-Based Integrated Software Platform <i>Basile Spyropoulos, Maria Botsivali, Aris Tzavaras and Vasileios Pierros</i>	439
Cross-Institutional Document Exchange System Using Clinical Document Architecture (CDA) with Virtual Printing Method <i>Naoki Mihara, Kanayo Ueda, Shirou Manabe, Toshihiro Takeda, Yoshie Shimai, Hiroyuki Horishima, Taizo Murata, Ayumi Fujii and Yasushi Matsumura</i>	444
Using ICT to Support Individual Guidance in Health Promotion Programs for Increased Physical Activity <i>Erik Tute, Bernward Engelke, Ingo Haase, Thomas Kupka, Michael Marschollek, Gerald Schneider, Lothar Stein and Uwe Tegtbur</i>	449
Internet-Based Remote Consultations – General Practitioner Experience and Attitudes in Norway and Germany <i>Timotheus Kampik, Frank Larsen and Johan Gustav Bellika</i>	452
Telemedicine and Cooperative Remote Healthcare Services: COPD Field Trial <i>Martin Gerdes, Berglind Smaradottir, Frank Reichert and Rune Fensli</i>	455
Consumer Sleep Tracking Devices: A Critical Review <i>Jeon Lee and Joseph Finkelstein</i>	458

A Recommender System for Medical Imaging Diagnostic <i>Eriksson Monteiro, Frederico Valente, Carlos Costa and José Luis Oliveira</i>	461
The Effect of Pharmaceutical Services-Based <i>eHealth</i> Intervention on Chronic Patient Health Outcomes <i>Â.M. Pizarro, J.P. Gregório and L.V. Lapão</i>	464
<b>4. Ambient Assisted Living and Wellbeing</b>	
Feasibility of Post-Acute Hip Fracture Telerehabilitation in Older Adults <i>McKenzie Bedra and Joseph Finkelstein</i>	469
Multimedia Health Records: User-Centered Design Approach for a Multimedia Uploading Service <i>Fernando Plazzotta, John C. Mayan, Fernando D. Storani, Juan M. Ortiz, Gastón E. Lopez, Gastón M. Gimenez and Daniel R. Luna</i>	474
Tablet Technology for Rehabilitation After Spinal Cord Injury: A Proof-of-Concept <i>Gabriella Fizzotti, Carla Rognoni, Arianna Imarisio, Alessandro Meneghini, Caterina Pistarini and Silvana Quaglini</i>	479
Dynamic Feature Selection Applied to the Recognition of Grasping Movements in the Control of Bioprosthetic Hand <i>Marek Kurzynski</i>	484
A Kinect Based Intelligent E-Rehabilitation System in Physical Therapy <i>Norbert Gal, Diana Andrei, Dan Ion Nemeş, Emanuela Nădăşan and Vasile Stoicu-Tivadar</i>	489
AUVA – Augmented Reality Empowers Visual Analytics to Explore Medical Curriculum Data <i>Sokratis Nifakos, Christos Vaitsis and Nabil Zary</i>	494
<b>5. Research and Education</b>	
End-User Expectations During an Electronic Health Record Implementation: A Case Study in Two Academic Hospitals <i>Erik Joukes, Ronald Cornet, Ameen Abu-Hanna, Martine de Bruijne and Nicolette de Keizer</i>	501
A European Inventory of Data Elements for Patient Recruitment <i>Justin Doods, Caroline Lafitte, Nadine Ulliac-Sagnes, Johan Proeve, Florence Botteri, Robert Walls, Andy Sykes, Martin Dugas and Fleur Fritz</i>	506
OPTIMED Platform: Curriculum Harmonisation System for Medical and Healthcare Education <i>Martin Komenda, Daniel Schwarz, Christos Vaitsis, Nabil Zary, Jaroslav Štěrba and Ladislav Dušek</i>	511

Comparing Video and Avatar Technology for a Health Education Application for Deaf People <i>Ionuț Adrian Chiriac, Lăcrămioara Stoicu-Tivadar and Elena Podoleanu</i>	516
Requirements for a Patient Recruitment System <i>Björn Schreiweis and Björn Bergh</i>	521
Evaluation of Internet Social Networks Using Net Scoring Tool: A Case Study in Adverse Drug Reaction Mining <i>Sandrine Katsahian, Erica Simond Moreau, Damien Leprovost, Jeremy Lardon, Cedric Bousquet, Gaétan Kerdelhué, Redhouane Abdellaoui, Nathalie Texier, Anita Burgun, Abdelali Boussadi and Carole Faviez</i>	526
Understanding the Perceived Usefulness and the Ease of Use of a Hospital Information System: The Case of a French University Hospital <i>R. Ologeanu-Taddei, D. Morquin and R. Bourret</i>	531
Health Information Systems: Evaluation and Performance of a Help Desk <i>Leandro Pintos, Adriana Stieben, Gabriela Garcia, Agustina Briatore, Agustina Bertoia, Sonia Benitez, Diego Giunta, Analía Baum and Fernán González Bernaldo de Quiros</i>	536
Problem Solving for Volatilizing Situation in Nursing: Developing Thinking Process Supporting System Using NursingNAVI® Contents <i>Satoko Tsuru, Fumiko Wako, Miho Omori and Kumiko Sudo</i>	541
Challenges of Stimulating a Market for Social Innovation – Provision of a National Health Account <i>Sofie Wass and Vivian Vimarlund</i>	546
Competence Assessment of Centres Participating in Clinical Trials <i>Guillaume Bouzillé, Pierre Asfar, Marc Cuggia and Jean-François Hamel</i>	551
Development of Knowledge Profiles for International eHealth eLearning Courses <i>Juliane Herzog, Stefan Sauermann, Alexander Mense, Mathias Forjan and Philipp Urbauer</i>	556
Analysis of EU – USA Cooperation Opportunities on IT Skills for Healthcare Workforce <i>Vicente Traver, Stathis Th. Konstantinidis, Panagiotis D. Bamidis and Nabil Zary</i>	561
<b>6. Digital Healthcare Services</b>	
A WSN Healthcare Monitoring System for Elderly People in Geriatric Facilities <i>Xiao Yu, Peter Weller and Kenneth T.V. Grattan</i>	567
Assisting E-Patients in an <i>Ask the Doctor</i> Service <i>Amine Abdaoui, Jérôme Azé, Sandra Bringay and Pascal Poncelet</i>	572
Metadata Requirements for Portals <i>Tim Benson</i>	577

Citizen Personas: Exploring Challenges of Citizen-Centric eHealth <i>Lone Stub Petersen and Pernille Bertelsen</i>	582
Internet of Things for an Age-Friendly Healthcare <i>Evdokimos I. Konstantinidis, Giorgos Bamparopoulos, Antonis Billis and Panagiotis D. Bamidis</i>	587
Contextual Cloud-Based Service Oriented Architecture for Clinical Workflow <i>Jesús Moreno-Conde, Alberto Moreno-Conde, Francisco J. Núñez-Benjumea and Carlos Parra-Calderón</i>	592
Acquisition of Character Translation Rules for Supporting SNOMED CT Localizations <i>Jose Antonio Miñarro-Giménez, Johannes Hellrich and Stefan Schulz</i>	597
Development of Hypertension Management Mobile Application Based on Clinical Practice Guidelines <i>H. Kang and H.A. Park</i>	602
The Impacts of Blended Learning Design in First Year Medical Studies <i>Pierre Gillois, Jean Luc Bosson, Celine Genty, Jean-Philippe Vuillez and Jean-Paul Romanet</i>	607
Clinical Simulation of Aortic Valve: A Narrative Review <i>E. Ebrahimi Mianehi, M.H. Aazami, H. Niazmand, Y. Mesri, A. Deyranlou and S. Eslami</i>	612
OpenNCP: A Novel Framework to Foster Cross-Border e-Health Services <i>Marcelo Fonseca, Kostas Karkaletsis, Isabel A. Cruz, Alexander Berler and Ilídio C. Oliveira</i>	617
GA-ANFIS Expert System Prototype for Prediction of Dermatological Diseases <i>Lejla Begic Fazlic, Korana Avdagic and Samir Omanovic</i>	622
Facilitating the Adoption of Digital Technologies by the Elderly <i>Séverine Loiseau, César Boog and Sylvia Pelayo</i>	627
An integrated Diet Monitoring Solution for Nutrigenomic Research <i>Costanza Conti, Elena Rossi, Sara Marceglia, Vittorio Tauro, Federica Rizzi, Monica Lazzaroni, Cristina Barlassina, Laura Soldati and Daniele Cusi</i>	632
Draft Guideline for the Development of Evidence Based Medicine-Related Apps <i>Andrea Gonnermann, Ute von Jan and Urs-Vito Albrecht</i>	637
User Experience Integrated Life-Style Cloud-Based Medical Application <i>Alexandru Serban, Oana Sorina Lupșe and Lăcrămioara Stoicu-Tivadar</i>	642
Designing the User Interfaces of a Behavior Modification Intervention for Obesity & Eating Disorders Prevention <i>Ioannis Moulos, Christos Maramis, Alexandros Mourouzis and Nicos Maglaveras</i>	647

Identifying Technology Interaction Opportunities Within a Gastroenterology Exam Room <i>Diogo Abrantes, Pedro Pimentel-Nunes, Mário Dinis-Ribeiro and Miguel Coimbra</i>	652
Physical Activity Event Regularity and Health Outcome – ‘Undiscovered Country’ in Cohort Accelerometer Data <i>Michael Marschollek</i>	657
Reshaping the Laboratory Results Presentation Layer: Three Interfaces for Handheld Devices <i>Frederic Ehrlér, Marion Brissaud, Rolf Wipfli and Christian Lovis</i>	660
Design and Evaluation of a Patient Website to Reduce Crowding in Emergency Departments: A Preliminary Study <i>Jessica Schiro, Romaric Marcilly, Nicolas Leroy, Clément Wawrzyniak, Alain Martinot and Sylvia Pelayo</i>	663
Apps for Hearing Healthcare <i>Alessia Paglialonga, Gabriella Tognola and Francesco Pincioli</i>	666
New Technologies Applied to Surgical Processes: Virtual Reality and Rapid Prototyping <i>Cristina Suárez-Mejías, Gorka Gomez-Ciriza, Israel Valverde, Carlos Parra Calderón and Tomás Gómez-Cía</i>	669
Experiences as Input to eHealth Design – A Hip Surgery Patient Journey Case <i>Maria Hägglund, Peter Bolin and Sabine Koch</i>	672
ADVISE: First Results of a European Interoperative Information System Network Developed for the ADenoVirus Initiative Study in Epidemiology <i>Laurent Toubiana, Jérémie Riquier and Brigitte Duquesnoix</i>	675
iCarer: AAL for the Informal Carers of the Elderly <i>P.A. Moreno, J.L. Garcia-Pacheco, J. Charvill, A. Lofti, C. Langensiepen, A. Saunders, K. Berckmans, J. Gaspersic, L. Walton, M. Carmona, S. Perez de la Camara, R. Sanchez-de-Madariaga, J. Pozo, A. Muñoz, M. Pascual and E.J. Gomez</i>	678
A Medical Application to Bridge the Gap Between Clinicians and Clinical Data <i>Mark Finkelstein, Khawaja H. Bilal and Michael Palese</i>	681
<b>7. Advanced Analytics and Big Data in Healthcare</b>	
Virtual File System on NoSQL for Processing High Volumes of HL7 Messages <i>Eizen Kimura and Ken Ishihara</i>	687
Analysis of Care Pathway Variation Patterns in Patient Records <i>Xiang Li, Jing Mei, Haifeng Liu, Yiqin Yu, Guotong Xie, Jianying Hu and Fei Wang</i>	692
A Big Data-Driven Model for the Optimization of Healthcare Processes <i>Vassiliki Koufi, Flora Malamateniou and George Vassilacopoulos</i>	697

Semantic Integration of Medication Data into the EHOP Clinical Data Warehouse <i>Denis Delamarre, Guillaume Bouzille, Kevin Dalleau, Denis Courtel and Marc Cuggia</i>	702
Integrating Medical and Research Information: A Big Data Approach <i>Carlos M. Tilve Álvarez, Alberto Ayora País, Cristina Ruiz Romero, Daniel Llamas Gómez, Lino Carrajo García, Francisco J. Blanco García and Guillermo Vázquez González</i>	707
Measuring Data Quality: A Review of the Literature Between 2005 and 2013 <i>Jürgen Stausberg, Daniel Nasseh and Michael Nonnemacher</i>	712
<b>8. Digitized Public and Private Healthcare Enterprise</b>	
Ethical, Legal and Social Issues Related to the Health Data-Warehouses: Re-Using Health Data in the Research and Public Health Research <i>Eugenia Lamas, Anne Barh, Dario Brown and Marie-Christine Jaulent</i>	719
How to Represent the Decision Process in a Medication Plan: The Case of the Swiss Cohort of Inflammatory Bowel Diseases <i>Frederic Ehrler, Philippe Baumann and Christian Lovis</i>	724
A High-Availability Architecture for Continuous Monitoring of Sleep Disorders <i>Alexandru Iovanovici, Alexandru Topirceanu, Mihai Udrescu, Lucian Prodan and Stefan Mihaicuta</i>	729
Sharing Models and Tools for Processing German Clinical Texts <i>Johannes Hellrich, Franz Matthies, Erik Faessler and Udo Hahn</i>	734
Detecting Learning and Reasoning Patterns in a CDSS for Dementia Investigation <i>Helena Lindgren and Chunli Yan</i>	739
A New Tool for Foetal Phonocardiography Simulation <i>Maria Romano, Paolo Bifulco, Luigi Iuppariello, Fabrizio Clemente, Gianni D'Addio and Mario Cesarelli</i>	743
<b>9. Bioinformatics</b>	
ISO 13606 Based System for Biomedical Parameter Storage, Querying and Alarm Detection <i>Miguel Ramos Naveira, Javier Broullón Molanes, Dolores Rimada Mora, Daniel Llamas Gómez, Lino Carrajo García and Guillermo Vázquez González</i>	751
A CAD System for the Acquisition and Classification of Breast TMA in Pathology <i>M. Milagro Fernández-Carrobles, Gloria Bueno, Oscar Déniz, Jesús Salido, Marcial García-Rojo and Lucía González-López</i>	756

Computational Study of the Self-Assembly of Two Different Cell Populations in Contact with a Biomaterial <i>Andreea Robu, Lacramioara Stoicu-Tivadar, Nicolae Robu and Adrian Neagu</i>	761
Privacy-Preserving Statistical Query and Processing on Distributed OpenEHR Data <i>Meskerem Asfaw Hailemichael, Luis Marco-Ruiz and Johan Gustav Bellika</i>	766
A Method to Pinpoint Undiscovered Links in Genetic and Protein Networks <i>Versavia Ancusa and Laura Broasca</i>	771
A Socio-Technical Analytical Framework on the EHR-Organizational Innovation Interplay: Insights from a Public Hospital in Greece <i>Maria Emmanouilidou</i>	776
<b>10. Mobile Healthcare Services</b>	
A Framework for Evaluating mHealth Tools for Older Patients on Usability <i>G.A. Widenbos, L.W. Peute and M.W.M. Jaspers</i>	783
A Mobile Application Supporting Outpatient Treatment and Follow-Up <i>Serena Buzzacchino, Giordano Lanzola, Paolo Bossi, Lisa Licitra and Silvana Quaglini</i>	788
Mobile Health Apps in Sweden: What Do Physicians Recommend? <i>Yiping Zhang and Sabine Koch</i>	793
A Mobile Application to Manage and Minimise the Risk of Late Effects Caused by Childhood Cancer <i>Ann-Kristin Kock, Rafiye Kaya, Christian Müller, Björn Andersen, Thorsten Langer and Josef Ingenerf</i>	798
Nurses Behaviour Pre and Post the Implementation of Data Capture Using Tablet Computers in a Rural Clinic in South Africa <i>Graham Wright, Don O'Mahony, Chrispin Kabuya, Helen Betts and Anthony Odama</i>	803
How to Organize for a Large-Scale OpenEHR-Based Electronic Patient Record <i>Gro-Hilde Ulriksen, Rune Pedersen, Rolf Wynn and Gunnar Ellingsen</i>	808
The Impact of eHealth and mHealth on Doctor Behavior and Patient Involvement: An Israeli and Portuguese Comparative Approach <i>Gabriel Catan, Rita Espanha, Rita Veloso Mendes, Orly Toren and David Chinitz</i>	813
A Mobile Platform for Emergency Care <i>Eleonora Losiouk, Silvana Quaglini, Massimo Pesenti Campagnoni and Giordano Lanzola</i>	818
Privacy Provision in eHealth Using External Services <i>Jaime Delgado and Silvia Llorente</i>	823

Heart Rate Prediction for Coronary Artery Disease Patients (CAD): Results of a Clinical Pilot Study <i>Frerk Müller-von Aschwege, Anke Workowski, Detlev Willemsen, Sebastian M. Müller and Andreas Hein</i>	828
<b>11. Empirical Research Methodologies</b>	
How Much Does Hyperkalemia Lengthen Inpatient Stays? About Methodological Issues in Analyzing Time-Dependant Events <i>Emmanuel Chazard, Choé Dumesnil and Régis Beuscart</i>	835
A Health Analytics Semantic ETL Service for Obesity Surveillance <i>M. Poulymenopoulou, D. Papakonstantinou, F. Malamateniou and G. Vassilacopoulos</i>	840
Usability Evaluation of a COPD Remote Monitoring Application <i>Berglind Smaradottir, Martin Gerdes, Rune Fensli and Santiago Martinez</i>	845
Applying Machine Learning to Gait Analysis Data for Disease Identification <i>Ranveer Joyseeree, Rami Abou Sabha and Henning Mueller</i>	850
Public Health Triangulation to Inform Decision-Making in Belgium <i>N. Bossuyt, V. Van Casteren, G. Goderis, J. Wens, S. Moreels, K. Vanthomme and E. De Clercq</i>	855
An Original Imputation Technique of Missing Data for Assessing Exposure of Newborns to Perchlorate in Drinking Water <i>Alexandre Caron, Guillaume Clement, Christophe Heyman, Eva Aernout, Emmanuel Chazard and Alain Le Tertre</i>	860
<b>12. Digital Health Improving Management of Resources in Healthcare</b>	
Process Assessment by Automated Computation of Healthcare Quality Indicators in Hospital Electronic Health Records: A Systematic Review of Indicators <i>Emmanuel Chazard, Djaber Babaousmail, Aurélien Schaffar, Grégoire Ficheur and Régis Beuscart</i>	867
EHR System MojTermin: Implementation and Initial Data Analysis <i>Goran Velinov, Boro Jakimovski, Dragan Lesovski, Daniela Ivanova Panova, Dalibor Frtunik and Margita Kon-Popovska</i>	872
Development of ISO 13606 Archetypes for the Standardisation of Data Registration in the Primary Care Environment <i>Jesús Barros Castro, Alejandro Lamelo Alfonsín, Javier Prieto Cebreiro, Dolores Rimada Mora, Lino Carrajo García and Guillermo Vázquez González</i>	877
Implementation of a Cloud-Based Blood Pressure Data Management System <i>Mu-Hsing Kuo</i>	882

A “pivot” Model to Set Up Large Scale Rare Diseases Information Systems: Application to the Fibromuscular Dysplasia Registry <i>Laurent Toubiana, Adrien Ugon, Alessandra Giavarini, Jérémie Riquier, Jean Charlet, Xavier Jeunemaitre, Pierre-François Plouin and Marie-Christine Jaulent</i>	887
Serious Game Scores as Health Condition Indicator for Cancer Patients <i>Konrad Peters, Fares Kayali, Andrea Reithofer, Rebecca Wölflé, Ruth Mateus-Berr, Jens Kuczwarz, Zsuzsanna Lehner, Anita Lawitschka, Barbara Brunmaier, Daniel Martinek, Marisa Silbernagl and Helmut Hlavacs</i>	892
<b>13. Digital Networks and Services</b>	
Developing a Mobile Application for Recording Learning Experiences in Nursing Practice <i>Marcus B. Becker, Marianne Behrends, Christoph Barthel, Thomas Kupka, Regina Schmeer, Iris Meyenburg-Altwarg and Michael Marschollek</i>	899
Client-Side Medical Image Colorization in a Collaborative Environment <i>Ioan Virág, Lăcrămioara Stoicu-Tivadar and Mihaela Crișan-Vida</i>	904
A User-Editable Web-Based Platform to Streamline Clinical Information Flow <i>Mark Finkelstein, Ammar Siddiqui, Theodore Pak, Kevin Hu, Chloe Ciccarello, Vinicius Knabben, David Chiang, David C. Thomas and Yasmin S. Meah</i>	909
Using EHR-Linked Biobank Data to Study Metformin Pharmacogenomics <i>Matthew K. Breitenstein, Gyorgy Simon, Eujung Ryu, Sebastian M. Armasu, Richard M. Weinshilboum, Liewei Wang and Jyotishman Pathak</i>	914
A Cloud Based Real-Time Collaborative Platform for eHealth <i>Bogdan Ionescu, Cristian Gadea, Bogdan Solomon, Dan Ionescu, Vasile Stoicu-Tivadar and Mircea Trifan</i>	919
PyMedTermino: An Open-Source Generic API for Advanced Terminology Services <i>Jean-Baptiste Lamy, Alain Venot and Catherine Duclos</i>	924
Designing ETL Tools to Feed a Data Warehouse Based on Electronic Healthcare Record Infrastructure <i>Fabrizio Pecoraro, Daniela Luzi and Fabrizio L. Ricci</i>	929
<b>Posters</b>	
Generic Case Extractor: Extended Export of Clinical Facts from i2b2 <i>Daniel Firnkorn, Matthias Gietzelt, Christian Karmen, Matthias Ganzinger and Petra Knaup</i>	937

Use of Meteorological, Environmental and Spatial Variables to Predict Drug Use <i>J.J. Cubillas, M.I. Ramos, M.C. Gutiérrez, F.R. Feito, A. Parra and J.C. Arias</i>	938
Improving Metadata Quality Assessment in Public Health and Epidemiology <i>Christiana McMahon, Tito Castillo, Dennis Kehoe and Spiros Denaxas</i>	939
Diagnosis Management of Gestational Diabetes Using a Decision Support System Based on Clinical Guidelines <i>Nassim Douali and Marie-Christine Jaulent</i>	940
A Method for Accurate Estimation of AUC for Repeated Intravenous Infusions <i>Harukazu Tsuruta, Noritaka Mamorita and Naoya Arisaka</i>	941
Analysis of Relationships Among Health-Risk Behavior in Korean Adolescents <i>GyeongAe Seomun and Wonjung Noh</i>	942
Influential Factors Related to Medical Information Security Practices: Organizational Awareness and Ethics <i>Sonyoung Kim and GyeongAe Seomun</i>	943
Impact of Information Technology-Based Interventions for Type 2 Diabetes Mellitus on Glycaemic Control: A Systematic Review and Meta-Analysis <i>Nouf Alharbi, Nada Alsabki and Simon de Lusignan</i>	944
Model for the Integration of Heterogeneous Diagnosis Support Systems <i>Oscar Marin-Alonso, Daniel Ruiz-Fernandez and Antonio Soriano-Paya</i>	945
Secondary Use of Austrian Health Claims Data to Explore Adverse Drug Events <i>Simone Sauter, Christoph Rinner, Lisa Neuhofner, Doron Edlinger, Wilfried Grossmann, Michael Wolzt, Gottfried Endel and Walter Gall</i>	946
Medplan: An Interactive Patient-Healthcare Professional Medication Management Tool <i>H. Anglada, M. Martin, M. Rovira, J.M. Sotoca, V. Escudero, A. Herranz and C. Codina</i>	947
Decision Support to Help Identify Patients for Advanced Heart Failure Therapies <i>R. Scott Evans, Deborah Budge, Jose Benuzillo, James F. Lloyd, Jen Nixon, Rami Alharethi, Kismet Rasmusson, Colleen Roberts, Benjamin D. Horne and Donald Lappe</i>	948
BPM Applied to COPD Management <i>Javier Ramírez, Daniel Ruiz and Virgilio Gilart</i>	949
Using Gene Expression and Systems Biology to Interrogate Auditory Hallucinations in Schizophrenic Patients <i>Guillermo Lopez-Campos, Javier Gilabert-Juan, Noelia Sebastia-Ortega, Rocio Gonzalez-Martinez, Juan Nacher, Julio Sanjuan and Maria Dolores Molto</i>	950

Clinical Specimen Receipt System Using a Mobile Smart Device <i>Kap No Lee, Deok Whan Kim, Hyung Jun Kim, Nam Sik Cho and Bong Woo Lee</i>	951
Health Care Professionals and the Privacy Policy <i>Kristina Kralik, Aleksandar Erceg, Vesna Ilakovac, Krešimir Šolić and Mira Hercigonja-Szekeres</i>	953
Using Geographic Information Systems to Improve the Accuracy of Data Mining Models to Predict the Flow of Patients to the Health Centers <i>J.J. Cubillas, F.R. Feito, M.I. Ramos, J.C. Arias, A. Parra and T. Ureña</i>	954
Knowledge, Use and Attitudes Towards Information and Communication Technologies Among Medical Students <i>Natasa Milic, Goran Trajkovic, Zoran Bukumiric, Andja Cirkovic, Jelena Milin Lazovic and Dejana Stanisavljevic</i>	955
An Approach to Improve Medication Adherence by Smart Watches <i>Fabian Sailer, Monika Pobiruchin, Martin Wiesner and Gerrit Meixner</i>	956
Electronic Oral Health Record in Forensic Dentistry <i>Jana Zvarova, Karel Chleborad, Karel Zvara and Tatjana Dostalova</i>	959
E-OncoHealth: Telemedicine Program for Monitoring Onco-Hematological Outpatients <i>Vicente Escudero-Vilaplana, Almudena Ribed, Sara Ibáñez-García, Roberto Collado-Borrell, Helena Anglada-Martínez, Ana Herranz-Alonso, Carlos Codina-Jané and María Sanjurjo-Sáez</i>	960
A New Hospital Information System Toward a Promotion for Security and BCP Strategy <i>Masayuki Honda and Takahiro Matsumoto</i>	962
“Quartile” Screening Method to Analyze the Relationship Between HIS and “AEROS” in Japan <i>Takayuki Hoshino, Nozomu Matsubara, Teruko Ueda, Yuichi Hirayama, Ayami Hoshino and Shiho Takaoka</i>	964
Workflow-Based Integration of EDCS and PACS Supporting Image-Based Surrogates in Clinical Trials <i>Daniel Haak, Charles-E. Page and Thomas M. Deserno</i>	966
Development of an Advanced Clinical Decision Support System on Medication Safety <i>Sara Ibáñez-García, Ana Herranz-Alonso, Jose Luis de la Rosa, Carmen Guadalupe Rodríguez-González, María Luisa Martín-Barbero and María Sanjurjo-Sáez</i>	968
Integrating Home Monitoring for Transcranial Direct Current Stimulation (tDCS) Therapy to Professional Care Environment <i>Elena Rossi, Giuseppe Pozzi, Lorenzo Rossi, Alberto Priori and Sara Marceglia</i>	970

A Proposal of a Standard Format for Allergy Information in Electronic Medical Records <i>Masaharu Nakayama and Ryusuke Inoue</i>	972
Comparing Representation Abilities of Semantic Standards in the Field of Emergency Room Treatment <i>Heike Dewenter, Dominik Brammen, Felix Walcher and Sylvia Thun</i>	973
Design of a Health Analytics Online Program to Improve Healthcare Provider Orders <i>D. Papakonstantinou, M. Poulymenopoulou, F. Malamateniou and G. Vassilacopoulos</i>	974
Exploiting Semantic Predications in a Graph Database <i>Andrej Kastrin, Thomas C. Rindflesch, Dejan Dinevski and Dimitar Hristovski</i>	975
ePrescription in Critical Care Unit <i>Humberto Fernán Mandriola Brieux, Fernando Plazzotta, Calos Otero, Damian Borbolla and Sebastián Guillén</i>	976
Use of a Computerized Clinical System as a Monitoring Tool for Infection Control <i>Stas Zusman, Alexander Axel, Liat Touderis, Pnina Schlaeffer and Eran Segal</i>	977
Reusing Claims Data to Assess Parenthood as Risk Factor for Myocardial Infarction <i>Florian Endel, Simone Sauter, Lorenz Koller, Alexander Niessner and Georg Duftschmid</i>	979
Archetype Representation of PROMs <i>Daniel Karlsson and Leili Lind</i>	980
More Eating Disorder Patients than Others Double Check Information Given by Their Doctors <i>Rolf Wynn, Gunn Pettersen, Jan Rosenvinge, Svein Bergvik and Oddgeir Friberg</i>	981
Analysis of Hospital Bed Management and Patient Mobility Using Open Data Sources <i>Fabrizio Pecoraro, Daniela Luzi and Fabrizio Clemente</i>	982
Integrating and scaling Through CDA: Making Specialist and Longitudinal Records Interoperable <i>Fernando Campos, Daniel Luna, Guillermo Rosa Diez, Adrian Marano and Fernán González B. de Quirós</i>	983
Spatial Science, Big Data and a European Health Intelligence Model <i>Nick Nicholas and Hamish Robertson</i>	984
Piecewise Regression of Semi Logarithmic Plotting: A Method to Represent and Analyse Dynamics of Epidemics <i>Vincent Auvigne, Patrick Guérin and Laurent Toubiana</i>	985

Using Model-Driven Engineering and Health Standards for Improving Healthcare Processes Management	986
<i>Alicia Martínez-García, María José Escalona, Julián Alberto García-García, Gustavo Aragón, Alberto Moreno-Conde and Carlos Parra</i>	
BIMCV: Synergy Between Peta Bytes of Data in Population Medical Imaging, Computer Aided Diagnosis and AVR	987
<i>Maria de la Iglesia-Vayá, José María Salinas, Gonzalo M. Rojas, Juan Carlos Pérez Cortés, Rafael Llobet, Miguel Angel Cazorla, Jacobo Martínez, Luis Martí-Bonmatí, Ignacio Blanquer, Manuel Regaña and José Miguel Puig</i>	
A Clinical Decision Support System for the Admission/Discharge of Patients with Diabetes	990
<i>Sumiko Akahori, Koji Uemura, Eizen Kimura, Koji Murao and Hideto Yokoi</i>	
Development of Support System for Aligning Dose-Distribution Images in Multiple Radiotherapy Using Nonlinear Registration Method	992
<i>Koji Uemura, Takumi Tanikawa, Masami Mukai and Yutaka Ando</i>	
A Novel Cache and SSD-Based Index Structure for Health Record Indexing	993
<i>Yang Du and Sule Yildirim-Yayilgan</i>	
Bringing Heterogenous Research Data Together: Data Protection for the German Centre for Lung Research (DZL)	995
<i>Raphael W. Majeed, Stefan Kuhn, Clemens Ruppert, Andreas Günther and Rainer Röhrig</i>	
Information Technology in Research Methodology: Improvement or Maybe Not? Comparison of Different Methods of Data Collection in a Research Study of Attitude Towards Plagiarism	996
<i>Martina Mavrinac, Gordana Brumini and Mladen Petrovečki</i>	
Smartphones in ADHD Management	998
<i>Nihal Dizdar and Neşe Zayım</i>	
ContSys Under Ontological Scrutiny	999
<i>Catalina Martínez-Costa, Stephen Kay, Nicholas Oughtibridge and Stefan Schulz</i>	
Secure Virtualised Working Environment for Clinical Research	1000
<i>Thomas Müller</i>	
A Software Solution for Maternity Rooms Assignment Management	1001
<i>Reza Jounwaz, Julien De Jonckheere, Thameur Rakza and Régis Logier</i>	
A Software Solution for Neonatal Nosocomial Infections Monitoring	1002
<i>Reza Jounwaz, Antoine Lamer, Nadine Kacet and Régis Logier</i>	
Use of an Anesthesia Database for the Estimation of Surgery Duration	1003
<i>Antoine Lamer, Julien De Jonckheere, Michel Delecroix and Régis Logier</i>	

The Design of Web-Based Medical Licensing Information System at Semarang City Health Office	1004
<i>Dina Nur Anggraini Ningrum, Yu-Chuan Li, Chien-Yeh Hsu and Cahya Tri Purnami</i>	
NATHCARE – Networking Alpine Health for Continuity of Care. The Pilot Case in the Province of Trento	1005
<i>Claudio Eccher, Michela Dalmatello, Elisa Morganti, Emanuele Torri, Giandomenico Nollo, Roberto Zuffada and Natalia Allegretti</i>	
Development of an Information Model for a Regional Shared EHR Based on the Concurrent Use of EN 13904 and ISO 13606 Standards	1008
<i>Pablo Serrano, Serapio Severiano, Jesús Castellano, Carmen Fuentes, Alfredo Paya, Ernesto Barrera and Mariano Casado</i>	
Tracking Study Patients in a University Hospital Information System	1010
<i>Sebastian Stäubert, Kirsti Meinel, Frank Meineke, Matthias Löbe and Alfred Winter</i>	
A Communicable Disease Query Engine	1012
<i>Johan Gustav Bellika, Luis Marco and Rolf Wynn</i>	
Functional Assessment Model for Hospital Information Systems in I.R. Iran	1013
<i>Somayyeh Abedian, Ehsan Bitaraf and Hossein Riazi</i>	
Mobile ICT Solution for House Calls Health Care Support	1016
<i>Dejan Zilli, Jožica Leskovšek and Srečko Natek</i>	
Contactless Blood Pressure Monitoring	1017
<i>In cheol Jeong and Joseph Finkelstein</i>	
Application of ISO 13606 Archetypes for a HIS-LIS Integration	1018
<i>Georgy Kopanitsa and Vladimir Yampolsky</i>	
EVITOM Project: Mobile App for Specific Oral Tolerance Induction in Children	1019
<i>Alberto Moreno-Conde, Antonio Ramírez-Jimenez, Elena Lechuga-Rodríguez, Francisco Jódar-Sánchez, Jesús Moreno-Conde, Alba García-Jimenez and Pedro Guardia-Martínez</i>	
Creating a Drug Knowledge Database for Integration into a Health Information System	1020
<i>Carlos Otero, Cintia Gimenez, Soledad Diaz, Romina Rebjrij, Laura Mattioni and Daniel Luna</i>	
Telerehabilitation Programme Based on Serious Games and Lifestyle Monitoring	1022
<i>Alberto Moreno-Conde, Francisco Jódar-Sánchez, Marta Pajaro-Blázquez, Alvaro Dueñas-Ruiz, Begoña Ferrer-González, Mº José Zarco-Periñan and Carlos Parra-Calderón</i>	
Patients Drug Exchange Forum Corpus: Toward Drug Safety Signals Detection	1023
<i>Renaud Perichon, Emmanuel Chazard and Régis Beuscart</i>	

Intervention Based on Mobile Technology for Asthma Control and Healthy Lifestyle Habits Promotion in Asthma Patients with Obesity	1024
<i>David José Sánchez-Pardo, Jesús Moreno-Conde, Francisco Jódar-Sánchez, Carmen Segura-Sánchez, Alberto Moreno-Conde, Elena Lechuga-Rodríguez, Ana Mª Morales Peña, Tomás Martínez Hernández and Pedro Guardia-Martínez</i>	
Evaluation of Drug and Disease Influence on Occurrence of Hyperkalemia: A Data Mining Approach	1026
<i>Petra Volk Markovic, Tomislav Laptos, Marko Robnik-Sikonja and Andreja Cufar</i>	
Long-Term Prefetching for Cloud Medical Imaging Repositories	1028
<i>Carlos Viana-Ferreira, Sérgio Matos and Carlos Costa</i>	
Kibera Medical Record Initiative: Barriers of Implementing an Electronic Medical Record System	1031
<i>Badeia Jawhari, Byron Berenger and Abdullah Saleh</i>	
Process Management Tool for Planning Surgical Activity	1033
<i>Germán-Antonio Escobar-Rodríguez, Alicia Martínez-García, Patricia Bonachela-Solas, Antonio Fornelino-Díez and Carlos-Luis Parra-Calderón</i>	
Information Extraction of Eligibility Criteria for Trial Enrolment Support	1034
<i>M.S. Marshall, J. van Soest, R. Dresens, J. Paulissen, P. Lambin and A. Dekker</i>	
Construction of the Interfaces Integration Infrastructure Between Multiple Systems	1035
<i>Tadahiro Shimogawa</i>	
In-Hospital Telemedicine – Live Interactive Nurses’ Pain Consultations	1036
<i>O. Shamay-Rosler, I. Gur-Aryeh, B. Lavi, S. Elbaum, A. Grinberg, S. Goldberg and E. Zimlichman</i>	
“SMART Travel Health” Application	1038
<i>Parisis Gallos and John Mantas</i>	
Attitudes of Mental Health Patients Toward the Use of Mobile Health Technologies	1039
<i>Mohammad A. Faysel</i>	
Subject Index	1041
Author Index	1051