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Nota di contenuto	"Machine Beauty" – Should It Inspire eHealth Designers? -- Mean Shift Based Feature Points Selection Algorithm of DSA Images -- Numerical Evaluation of the Effectiveness of the Air Chamber of Shoes Pad for Diabetes with FE-SPH Method -- Effect of Suture Density on the Dynamic Behavior of the Bioprosthetic Heart Valve: A Numerical Simulation Study -- An Analysis on Risk Factors of Chronics Diseases Based on GRI -- A Study on the Nonlinearity Relationship between Quadriceps Thickness and Torque Output during Isometric Knee Extension -- A Comparative Study of Improvements Filter Methods Bring on Feature Selection Using Microarray Data -- Real-Time

Estimation of Tibialis Anterior Muscle Thickness from Dysfunctional Lower Limbs Using Sonography -- A Prosthesis Control System Based on the Combination of Speech and sEMG Signals and Its Performance Assessment -- Detecting Adolescent Psychological Pressures from Micro-Blog -- Detecting Abnormal Patterns of Daily Activities for the Elderly Living Alone -- Detecting Noun Phrases in Biomedical Terminologies: The First Step in Managing the Evolution of Knowledge -- Color-Coded Imaging with Adaptive Multiscale Spatial Filtering -- An Architecture and a Platform for Recording and Replaying the Healthcare Information -- Design and Development of a 3-Lead ECG System Based on the ISO/IEEE 11073-10406 Standards -- Data Integration in a Clinical Environment Using the Global-as-Local-View-Extension Technique -- Fall Detection with the Optimal Feature Vectors Based on Support Vector Machine -- Pre-impact and Impact Detection of Falls Using Built-In Tri-Accelerometer of Smartphone -- Portable Assessment of Emotional Status and Support System -- Mining Order-Preserving Submatrices Based on Frequent Sequential Pattern Mining -- Unsupervised Segmentation of Blood Vessels from Colour Retinal Fundus Images -- Mobile Graphic-Based Communication: Investigating Reminder Notifications to Support Tuberculosis Treatment in Africa -- Multiscale Geometric Active Contour Model and Boundary Extraction in Kidney MR Images -- Discovering New Analytical Methods for Large Volume Medical and Online Data Processing -- Water Molecules Diffusion in Diffusion Weighted Imaging -- Feasibility Study of Signal Similarity Measurements for Improving Morphological Evaluation of Human Brain with Images from Multi-Echo T2-Star Weighted MR Sequences -- Multi-agent Based Clinical Knowledge Representation with Its Dynamic Parse and Execution -- Research on Applications of Multi-Agent System Based on Execution Engine in Clinical Decision-Making -- A Comfortable THz Source for Biological Effect.

Sommario/riassunto	This book constitutes the refereed proceedings of the Third International Conference on Health Information Science, HIS 2014, held in Shenzhen, China, in April 2014. The 29 full papers presented were carefully reviewed and selected from 61 submissions. They cover a wide range of topics in health information sciences and systems that support the health information management and health service delivery. They deal with medical/health/biomedicine information resources, such as patient medical records, devices and equipments, software and tools to capture, store, retrieve, process, analyse, and optimize the use of information in the health domain; data management, data mining, and knowledge discovery, all of which play a key role in the decision making, management of public health, examination of standards, privacy and security issues; computer visualization and artificial intelligence for computer-aided diagnosis; and development of new architectures and applications for health information systems.