

Table of Contents

Supporting eHealth Innovations: an Insurer's Perspective <i>Ruud Janssen, Sikke Visser, Elles Gyaltzen-Lohuis, and Marike Hettinga</i>	1
Promoting Patient Voices on the Internet <i>Marianne Vibeke Trondsen, Line Lundvoll Warth, Kari Dyb, Torsten Risor, and Hege Kristin Andreassen</i>	5
Online Information about Cancer Patient Pathways (CPP) in Norway <i>Heidi Gilstad</i>	7
Designing in Rural Highland Contexts: Exploring the Role of Technology in Facilitating Human Connections <i>Tara French, Jeroen Blom, and Sneha Raman</i>	13
Patient-Centred Healthcare Team <i>Trine S Bergmo Bergmo, Birgitte Aabotsvik, Monika Eriksen, Elisabeth Kollnes, Marte F Larsen, Hege Mathisen, Anne Grethe Olsen, Johanne Aasen, Monika Dalbakk, Grete Jakobsen, Torunn I Johansen, Stian Kristoffersen, Veronica Sorensen, and Stine Haustreis</i>	19
Interaction Space: Older Adults and in-Home Systems <i>Jeroen Blom, Tara French, and Gemma Teal</i>	25
Co-creation of an Innovation Network: Engagement and User Involvement in Digital Care Services <i>Torbjorg Traeland Meum and Ety Ragnhild Nilsen</i>	32
Assessing Electronic Health Records: Are Basic Assumptions in "Health Technology Assessment" Useful? <i>Anne Granstrom Ekeland</i>	36
Denk je zelf! Developing a Personalised Virtual Coach for Emotional Eaters using Personas <i>Aranka Dol, Olga Kulyk, Hugo Velthuijsen, Lisette van Gemert-Pijnen, and Tatjana van Strien</i>	42
Identifying Important Components for a Successful Life Style Change using an Online Complex e-health Intervention in General Practice – a Qualitative Interview Study <i>Carl J. Brandt, Jane Clemensen, Jesper Bo Nielsen, and Jens Sondergaard</i>	48
Feasibility of a Second Iteration Wrist and Hand Supported Training System for Self-administered Training at Home in Chronic Stroke <i>Sharon M Nijenhuis, Gerdienke B Prange-Lasonder, Farshid Amirabdollahian, Francesco Infarinato, Jaap H Buurke, and Johan S Rietman</i>	51
A Renewed Framework for the Evaluation of Telemedicine. <i>Stephanie Maria Jansen - Kosterink, Miriam Vollenbroek - Hutten, and Hermie Hermens</i>	57

The Analysis of Youngster with Fever by Using Instantaneous Pulse Rate Variability <i>Po Hsun Huang, Chia-Chi Chang, and Tzu-Chien Hsiao</i>	63
Planning for Sustainability: Multiple Technologies for Different Care Models <i>Anthony Glascock, Rene Burke, Sherri Portnoy, and Shaleea Shields</i>	68
Automated Nursing Agent: A Software Agent for At-Home Elderly Care <i>Amir Hossein Faghieh Dinevari and Osmar Zaiane</i>	77
A Compact Dual-Band Antenna for Wearable e-Health Devices <i>Haider Raad, Casey White, Hussain Al-Rizzo, Ayman Isaac, and Ali Hammoodi</i>	82
Proposal for A KINECT-Based Auscultation Practice System <i>Yoshitoshi Murata, Kazuhiro Yoshida, Natsuko Miura, and Yoshihito Endo</i>	86
Co-creating with Stakeholders: Ideating eHealth Applications to Support Antibiotic Stewardship in Hospitals <i>Maarten van Limburg, Hans Ossebaard, Jobke Wentzel, and Lisette van Gemert-Pijnen</i>	92
The Grid, Classification of eHealth Applications Towards a Better (re)Design and Evaluation <i>Saskia Akkersdijk, Saskia Kelders, Lisette van Gemert-Pijnen, and Annemarie Braakman</i>	98
Smartphone-Based Collaborative System for Wounds Tracking <i>Francis Faux, Remi Bastide, Nathalie Souf, and Rita Zgheib</i>	104
A Short-Term Assessment of Cardiac Output by Using Instantaneous Pulse Rate Variability <i>Pei Chen Lin, Chia Chi Chang, Hung Yi Hsu, and Tzu Chien Hsiao</i>	110
Telemonitoring Protocol for Prevention and Comorbidity Screening, in Paediatric Patients with Cystic Fibrosis and/or Diabetes, by HVR index <i>Irene Tagliente, Fabrizio Murgia, Riccardo Schiaffini, Antonella Lorubio, Marcello Chinali, Fabio Majo, and Sergio Bella</i>	116
Combining Personal Health Records and Relevant External Data Sources: A Way for Achieving New Outcomes for Personal Healthcare <i>Juha Puustjarvi and Leena Puustjarvi</i>	121
Big Data for Personalized and Persuasive Coaching via Self-monitoring Technology <i>Lisette van Gemert-Pijnen, Floor Sieverink, Liseth Siemons, and Annemarie Braakman-Jansen</i>	127
Wearable Recognition System for Emotional States Using Physiological Devices <i>Ali Mehmood Khan and Michael Lawo</i>	131
Attribute-Based Authenticated Access for Secure Sharing of Healthcare Records in Collaborative Environments	138

<i>Mohamed Abomhara and Huihui Yang</i>	
Fuzzy One-Decision Making Model with Fuzzified Outcomes in the Treatment of Necrotizing Fasciitis <i>Elisabeth Rakus-Andersson and Janusz Frey</i>	145
The Value of Clinical Information Models and Terminology for Sharing Clinical Information <i>Rune Pedersen, Conceicao Granja, and Luis Marco Ruis</i>	153
Three Levels of Access Control to Personal Health Records in a Healthcare Cloud <i>Gabriel Sanchez Bautista and Ning Zhang</i>	160
Evaluation of a Context-Specific Communication System Based on Smartphones: A Field Study of Use and Nurses' expectations <i>Trine S. Bergmo, Elin Johnsen, Monika A. Johansen, and Tejre Solvoll</i>	165
Designing User Interfaces for Personal Health Assessment Questionnaires: A Report From a Pilot Study <i>Conceicao Granja, Kari Dyb, Stein Roald Bolle, and Gunnar Hartvigsen</i>	171
Core Archetypes The Means to Build Confidence Around the Power of Structured EPR Systems? <i>Gro-Hilde Ulriksen and Rune Pedersen</i>	174
Concept Testing Toward a Patient-Validated Information Architecture <i>Tore Hogas, Torsten Risor, Marianne Trondsen, Line Lundvoll Warth, Kari Dyb, and Hege Andreassen</i>	180
Investigating Factors Determining the Use of the Clinical Care Module by Nurses Through the UTAUT Model <i>Munyaradzi Zhou, Marlien Herselman, and Alfred Coleman</i>	186
An Integrated and Collaborative eHealth System for the Mental Health Services <i>Claudio Dario, Gerardo Favaretto, Claudio Saccavini, Silvia Mancin, and Giulia Pellizzon</i>	192
Barriers to Deploying Diabetes Self-management mHealth Services in the Chinese Market <i>Ying Li, Xiaolian Duan, Daidi Zhong, and Jianning Qu</i>	195
Results of the Australian CSIRO National Multi-site Trial of At-home Telemonitoring for the Management of Chronic Disease <i>Branko Celler, Marlien Varnfield, Jane Li, Rajiv Jayasena, Ross Sparks, Surya Nepal, Leila Alem, Julian Jang-Jaccard, and Simon McBride</i>	200
Distributed Case Management in the Public Health Area <i>Octavian Purcarea, Philip Cummings, Doina Patrubani, and Cristian Taslitchi</i>	202
MoodLine and MoodMap: Designing a Mood Function for a Mobile Application with and for Young Patients <i>Maja van der Velden and Margaret Machniak Sommervold</i>	214

Re-establishing Interaction Through Design of Alternative Interfaces <i>Suhas Govind Joshi</i>	220
ICT Platform for Cognitive Stimulation: Technological Description and Evaluation of Effectiveness and Impact of the Practice in Alzheimer's Disease Patients <i>Andrea Caroppo, Alessandro Leone, Pietro Siciliano, Daniele Sancarlo, Grazia D'onofrio, and Antonio Greco</i>	230
Sense-Making in Complex Healthcare Domains: The Role of Technology in Every Day Lives of Youth Suffering from ME/CFS <i>Jorun Borsting and Alma Leora Culen</i>	236
Do it Yourself: Supporting Patient Self-management in Clinical Practice <i>Veronica Janssen and Roderik Kraaijenhagen</i>	243
Performing Telecare: Recognizing New Nursing Care Practices <i>Annemarie van Hout, Ruud Janssen, and Marike Hettinga</i>	247
Smartphone-based Optical System for Blood Coagulation Self-monitoring <i>Ramji Sitaraman Lakshmanan and Vitaly Efremov</i>	251
Technology for Transition: Needs and Preferences of Young Patients <i>Margaret Machniak Sommervold and Maja van der Velden</i>	257
Textile Performance Assessment for Smart T-Shirt Development <i>Paolo Perego, Giuseppe Andreoni, and Marco Tarabini</i>	263
A System for Real Time Monitoring of Users' Postural Attitudes <i>Alessandro De Gloria, Alberto Cavallo, Alessio Robaldo, and Flavio Ansovini</i>	269
iCARE: Telematic Platform for the Improvement of Home Care Services for Pediatric Palliative Care <i>Luca Bianconi, Cristiana Degano, Matteo Toma, Luca Manfredini, Federica Penco, Sandro Dallorso, Paolo Petralia, and Riccardo Berta</i>	272
Development of Smart Garments and Accessories to Support Behaviour Change in Teen-agers: Considerations on the Use of Interactive Virtual Prototyping <i>Maria Renata Guarneri</i>	274
A Graph Framework for Multimodal Medical Information Processing <i>Georgios Drakopoulos and Vasileios Megalooikonomou</i>	278
Designing a Mobile Serious Game to Promote Healthy Lifestyles <i>Stefano Carrino, Maurizio Caon, Ian Dunwell, Dalia Morosini, and Elena Mugellini</i>	283

An Environmental and Wearable System Supporting Monitoring Services at Home for Elderly People
Giuseppe Andreoni, Marco Bocciolone, Paolo Perego, Marco Tarabini, Lucia Pigni, Gabriele Bovi, Valerio Gower, Claudia Panzarino, and Maurizio Ferrarin

289