Contents

Teleassistance, Remote and Monitoring Agents Applications

Agent-Based Systems for Telerehabilitation: Strengths, Limitations and Future Challenges ................................................................. 3
Davide Calvaresi, Michael Schumacher, Mauro Marinoni, Roger Hilfiker, Aldo F. Dragoni, and Giorgio Buttazzo

Engineering IoT Systems Through Agent Abstractions: Smart Healthcare as a Case Study .............................................................. 25
Eloisa Vargiu and Franco Zambonelli

Event Calculus Agent Minds Applied to Diabetes Monitoring ......................... 40
Nicola Falcionelli, Paolo Sernani, Albert Brugués, Dagmawi Neway Mekuria, Davide Calvaresi, Michael Schumacher, Aldo Franco Dragoni, and Stefano Bromuri

Personal Assistant Agents in Health-Care

A Personal Medical Digital Assistant Agent for Supporting Human Operators in Emergency Scenarios ................................................. 59
Angelo Croatti, Sara Montagna, and Alessandro Ricci

A System for the Management of Clinical Tasks Throughout the Clinical Process with Notification Features ........................................ 76
António Silva, Tiago Oliveira, José Neves, Ken Satoh, and Paulo Novais

A Multipurpose Goal Model for Personalised Digital Coaching ................ 94
Jayalakshmi Baskar, Rebecka Janols, Esteban Guerrero, Juan Carlos Nieves, and Helena Lindgren

Prediction Models for Health and Societal Challenges

Towards Social Care Prediction Services Aided by Multi-agent Systems ........ 119
Emilio Serrano and Javier Bajo

Multi-agent Systems for Epidemiology: Example of an Agent-Based Simulation Platform for Schistosomiasis ............................................. 131
Papa Alioune Cissé, Jean Marie Dembele, Moussa Lo, and Christophe Cambier

Author Index ................................................................................. 155
Agents and Multi-Agent Systems for Health Care
Montagna, S.; Abreu, P.H.; Giroux, S.; Schumacher, M.I. (Eds.)
2017, XI, 155 p. 37 illus., Softcover
ISBN: 978-3-319-70886-7