Contents

Preface / vii

Dealing with Malnutrition: A Meal Planning System for Elderly / 1
John Aberg

Persuasive Argumentation in Human Computer Dialogue / 8
Pierre Andrews, Marco De Boni, and Suresh Manandhar

Towards Plan-based Health Behavior Change Counseling Systems / 14
Timothy W. Bickmore and Candace L. Sidner

Experts’ Adaptation to Healthcare Consumers’ Language and Understanding: A Psycholinguistic Approach on Online Health-Advice / 19
Rainer Bromme, Regina Jucks, and Petra Schulte-Löbbert

Comprehension of Prescription Drug Information: Overview of a Research Program / 24
Ruth S. Day

Argumentation through an Automated Rational-Emotive Behavior Therapy System for Change in Exercise Behavior / 34
Marco De Boni, Robert Hurling, and Windy Dryden

A Physician’s Authoring Tool for Generation of Personalized Health Education in Reconstructive Surgery / 39
Chrysanne DiMarco, Don Cowan, Peter Bray, Dominic Covvey, Vic Di Cicco, Eduard Hovy, Joan Lipta, and Doug Mulholland

The Role of AI in Building a Culture of Partnership between Patients and Providers / 47
Steven B. Dolins and Robert E. Kero

Towards a General Model for Argumentation Services / 52
John Fox, Liz Black, David Glasspool, Sanjay Modgil, Ayelet Oettinger, Vivek Puthar, and Matt Williams

Argumentation in Decision Support for Medical Care Planning for Patients and Clinicians / 58
David W. Glasspool, John Fox, Ayelet Oettinger, and James Smith-Spark

Representing Normative Arguments in Genetic Counseling / 64
Nancy Green

Understanding the Frequency and Severity of Side Effects: Linguistics, Numeric, and Visual Representations / 69
Rob Hubal and Ruth S. Day