Preface

Introducing the Papers

About the Authors

Improving Diagnostic Efficiency in KARDIO: Abstractions, Constraint Propagation and Model Compilation p. 1

Utilizing Detailed Anatomical Knowledge for Hypothesis Formation and Hypothesis Testing in Rheumatological Decision Support p. 27

Qualitative Models in Medical Diagnosis p. 51

Monitoring Diseases with Empirical and Model Generated Histories p. 71

Reduced Constraint Models p. 89

A Causal-Functional Model for Medical Knowledge Representation p. 101

Knowledge Representation by Extended Linear Models p. 129

Validation of a Causal Probabilistic Medical Knowledge Base for Diagnostic Reasoning p. 147

Making Deepness Explicit p. 161

Some Causal Models are Deeper than Other p. 169

Second Generation Knowledge Acquisition Methods and their Application to Medicine p. 177

Structure and Significance of Analogical Reasoning p. 199

Cases and the Elucidation of Deep Knowledge p. 219

Reflections on the Nature of Expertise in Medicine p. 231

Machine Depth versus Psychological Depth: a lack of equivalence p. 249

Deep Knowledge in Human Medical Expertise p. 273

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.