

# Contents

|           |  |           |
|-----------|--|-----------|
| <b>1</b>  | <b>Neural Symbolic Computing with Knowledge Graph . . . . .</b>  | <b>1</b>  |
|           | <i>Huajun Chen</i>   |           |
| <b>2</b>  | <b>Multi-Agent Epistemic Planning Based on Higher-Order Belief Change . . . . .</b>                            | <b>2</b>  |
|           | <i>Yongmei Liu</i>   |           |
| <b>3</b>  | <b>Natural Language Inference: for Humans and Machines . . . . .</b>   | <b>3</b>  |
|           | <i>Valeria de Paiva</i>  |           |
| <b>4</b>  | <b>Principle-Based and Principled Formal Studies of Argumentation: The case of gradual semantics . . . . .</b> | <b>4</b>  |
|           | <i>Henry Prakken</i>   |           |
| <b>5</b>  | <b>Some Recent Developments in the Argumentative Unification of Defeasible Reasoning . . . . .</b>             | <b>5</b>  |
|           | <i>Christian Straßer</i>   |           |
| <b>6</b>  | <b>Mixing Term Logics . . . . .</b>  | <b>6</b>  |
|           | <i>J.-Martín Castro-Manzano</i>  |           |
| <b>7</b>  | <b>Calculi and Models for Non-Horn Knowledge Bases Containing Neural and Evaluable Predicates . . . . .</b>    | <b>24</b> |
|           | <i>Alexander Sakharov</i>  |           |
| <b>8</b>  | <b>Experiments in Kratzer Modal Semantics Using Isabelle/HOL . . . . .</b>                                     | <b>36</b> |
|           | <i>Ali Farjami</i>   |           |
| <b>9</b>  | <b>Epistemic Logics over Weighted Graphs . . . . .</b>   | <b>43</b> |
|           | <i>Xiaolong Liang, Yi N. Wang</i>  |           |
| <b>10</b> | <b>Decision Making with Weighted Quantitative Argumentation Based on Regression . . . . .</b>                  | <b>59</b> |
|           | <i>Puyin Li, Dov Gabbay, Xiao Chi, You Cheng</i>   |           |

|  |            |
|--|------------|
| <b>11 Strength and Accumulation of Evidence in Evidence-Based Argumentation Frameworks . . . . .</b> | <b>72</b>  |
| <i>Chen Chen, Beishui Liao</i>   |            |
| <b>12 Higher-order Logic as a Lingua Franca for Logico-Pluralist Argumentation . . . . .</b>         | <b>83</b>  |
| <i>David Fuenmayor, Christoph Benzmüller</i>   |            |
| <b>13 New Axiomatization of Lewis' Conditional Logics . . . . .</b>                                  | <b>95</b>  |
| <i>Xuefeng Wen</i>   |            |
| <b>14 Using ATS to Model Control Argumentation in Multi-agent Settings . . . . .</b>                 | <b>107</b> |
| <i>Muyun Shao, Beishui Liao</i>  |            |