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Temporal-Epistemic Logic -- GOAL Agents Instantiate Intention Logic -- Open Texture and Argumentation: What Makes an Argument Persuasive? -- Irrationality in Persuasive Argumentation -- Some Reflections on Two Current Trends in Formal Argumentation -- On the Representation of Normative Sentences in FOL -- Why Be Afraid of Identity? Comments on Sergot and Prakken's Views -- Deon+: Abduction and Constraints for Normative Reasoning -- Contrary-To-Duties in Games -- Logical Approaches to Authorization Policies -- Decentralized Governance of Distributed Systems via Interaction Control -- Managing User-Generated Content as a Knowledge Commons. The Scientific Contribution of Marek Sergot -- Teleo-Reactive Abductive Logic Programs.- Semi-negative Abductive Logic Programs with Implicative Integrity Constraints: Semantics and Properties.- What Is Negation as Failure? -- The Importance of the Past in Interval Temporal Logics: The Case of Propositional Neighborhood Logic.- Argumentation and the Event Calculus -- Reactive Event Calculus for Monitoring Global Computing Applications -- Reasoning about the Intentions of Agents -- Symbolic Model Checking for Temporal-Epistemic Logic -- GOAL Agents Instantiate Intention Logic -- Open Texture and Argumentation: What Makes an Argument Persuasive? -- Irrationality in Persuasive Argumentation -- Some Reflections on Two Current Trends in Formal Argumentation -- On the Representation of Normative Sentences in FOL -- Why Be Afraid of Identity? Comments on Sergot and Prakken's Views -- Deon+: Abduction and Constraints for Normative Reasoning -- Contrary-To-Duties in Games -- Logical Approaches to Authorization Policies -- Decentralized Governance of Distributed Systems via Interaction Control -- Managing User-Generated Content as a Knowledge Commons.

Sommario/riassunto

This book is dedicated to Marek Sergot, Professor in Computational Logic at Imperial College London, on the occasion of his 60th birthday. Professor Sergot's scientific contributions range over many different fields. He has developed a series of novel ideas and formal methods bridging areas including artificial intelligence, computational logic, philosophical logic, legal theory, artificial intelligence and law, multi-agent systems and bioinformatics. By combining his background in logic and computing with his interest in the law, deontic logic, action, and related areas, and applying to all his capacity to understand the subtleties of social interaction and normative reasoning, Professor Sergot has opened up new directions of research, and has been a reference, an inspiration, and a model for many researchers in the fields to which he has contributed. The Festschrift includes several reminiscences and introductory essays describing Professor Sergot's achievements, followed by a series of articles on logic programming, temporal reasoning and action languages, artificial intelligence and law, deontic logic and norm-governed systems, and logical approaches to policies.
