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the Chinese Room Argument and the Symbol Grounding Problem -- Quantum Mechanics and Social Interaction -- Conservation of Information: A New Approach to Organizing Human-Machine-Robotic Agents under Uncertainty -- On Voting Process and Quantum Mechanics -- Nonseparability of Shared Intentionality -- Quantum Mechanics and Semantic Space -- Semantic Spaces: Measuring the Distance between Different Subspaces -- Characterizing Pure High-Order Entanglements in Lexical Semantic Spaces via Information Geometry -- Semantic Vector Combinations and the Synoptic Gospels -- Quantum Mechanics and Information Retrieval -- Eraser Lattices and Semantic Contents -- Beyond Ontology in Information Systems -- Structured Information Retrieval and Quantum Theory -- Quantum Mechanics and Economics -- Hilbert Space Models Commodity Exchanges -- Quantum Calculus (q-Calculus) and Option Pricing: A Brief Introduction.

| Sommario/riassunto | This book constitutes the refereed proceedings of the Third International Symposium on Quantum Interaction, QI 2009, held in Saarbrücken, Germany, in March 2009. The 21 revised full papers presented together with the 3 position papers were carefully reviewed and selected from numerous submissions. The papers show the cross-disciplinary nature of quantum interaction covering topics such as computation, cognition, decision theory, information retrieval, information systems, social interaction, computational linguistics and finance. |