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Descrizione fisica	1 online resource (IX, 171 p. 96 illus., 25 illus. in color.)
Disciplina	621.367
Soggetti	Optical data processing Information storage and retrieval Multimedia systems Data structures (Computer science) Data encryption (Computer science) Image Processing and Computer Vision Information Storage and Retrieval Multimedia Information Systems Data Storage Representation Cryptology
Lingua di pubblicazione	Inglese
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Nota di contenuto	1.Introduction and Overview -- 2. Quantum Image Representations -- 3. Quantum Image Operations -- 4. Quantum Image Security -- 5. Quantum Image Understanding -- 6. Quantum Multimedia Techniques -- 7. Summary and Discussion.
Sommario/riassunto	This book provides a comprehensive introduction to quantum image processing, which focuses on extending conventional image processing tasks to the quantum computing frameworks. It summarizes the available quantum image representations and their operations, reviews the possible quantum image applications and their implementation, and discusses the open questions and future development trends. It offers a valuable reference resource for graduate students and researchers interested in this emerging interdisciplinary field.