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Nota di contenuto	Introduction -- Philosophical and Mathematical Background -- Axioms of Soft Logic -- Soft Numbers -- The Soft Coordinate System -- Soft Logic and Calculus -- Soft Curves -- The Dynamics of Soft Logic -- Soft Analysis -- Limits of Soft Numbers -- The Soft Mobius Function and the Riemann Hypothesis -- Soft Probability and Entropy -- Soft Logic and the Privacy Paradox -- Application Examples and Further Research.
Sommario/riassunto	This is a pioneering book that delves into the intersection of artificial intelligence (AI) and healthcare, specifically focusing on the detection and prevention of infectious diseases. Authored by leading experts in the field, this book offers a comprehensive overview of the latest advancements, challenges, and applications of AI in combating infectious diseases. With a unique emphasis on big data, wearable data, and computer vision, the book presents original research works that showcase innovative approaches to leveraging AI for disease surveillance, screening, and severity stratification. Through a combination of review chapters summarizing the current state of the

field and novel applications of AI technology, readers gain valuable insights into the potential of AI in addressing major life-threatening infectious diseases identified by the UN Sustainable Development Goal 3. The book's structure ensures a balanced blend of theoretical foundations and practical applications, making it accessible to both researchers and healthcare professionals. By exploring cutting-edge methodologies and case studies, the book equips readers with the knowledge and tools needed to harness the power of AI in the fight against infectious diseases, ultimately contributing to global efforts to improve public health outcomes. With its interdisciplinary approach and focus on AI-driven solutions, " Surveillance, prevention, and control of infectious diseases: An AI perspective" serves as an invaluable resource for researchers, practitioners, and policymakers seeking to stay abreast of the latest developments in this rapidly evolving field. Whether exploring the role of wearable devices in disease monitoring or examining the potential of computer vision for early detection, this book offers a comprehensive overview of AI applications that have the potential to revolutionize infectious disease management and prevention strategies.