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Nota di contenuto	<p>Chapter 1: Systems approach for preventing falls in hospitals and nursing homes using sensing devices surrounding the patient's bed; Masato Takanokura, Masafumi Miyake, Masaru Kawakami, Tetsuo Yamada, Seiko Taki, Munenori Kakehi -- Chapter 2: A Multiobjective Patient Admission Planning Improving Resources Utilisation Under Bed Capacity Constraints; Alain Guinet, Nadine Meskens, Tao Wang -- Chapter 3: Multi-Criteria Decision Making approaches to Prioritize Surgical Patients; Samira Abbasgholizadeh Rahimi, Afshin Jamshidi,</p>

Angel Ruiz, Daoud Ait-Kadi -- Chapter 4: Bed Managers: The patient's Personal Assistant; Sylvie Meyran, Seren Schirra, Gaelle Olleon, Estelle Forestier, Emmanuel Beaudry, Marie Lassaigne -- Chapter 5: An Optimization Model for Sequence Dependent Parallel Operating Room Scheduling; Johan Holmgren, Marie Persson -- Chapter 6: A Mean-Field Analysis for the Two-Tiered Healthcare Network through Nonlinear Markov Processes; Na Li, Quanlin Li, Ruina Fan -- Chapter 7: Scheduling Magnetic Resonance Imaging Examinations: An Empirical Analysis; Filippo Visintin, Paola Cappanera -- Chapter 8: A Managerial Use of the Volume-Outcome Association for Hospital Planning; Arianna Alfieri, Elisabetta Listorti, Andrea Matta -- Chapter 9: A Discrete Event Simulation Model for the Admission of Patients to a Home Care Rehabilitation Service; Azadeh Maroufkhani, Ettore Lanzarone, Cecily Castelnovo, Maria Di Mascolo -- Chapter 10: Ambulance Location Problem with Stochastic Call Arrivals under Nearest Available Dispatching Policy; Inkyung Sung, Taesik Lee -- Chapter 11: Approach to Clustering Clinical Departments; Alexander Hübner, Manuel Walther, Heinrich Kuhn -- Chapter 12: Management of Blood Donation System: Literature Review and Research Perspectives; Seda Ba, Giuliana Carello, Ettore Lanzarone, Semih Yalcindag, Zeynep Ocak -- Chapter 13: Staffing Ratio Analysis in Primary Care Redesign: A Simulation Approach; Xiang Zhong, Hyo Kyung Lee, Molly Williams, Sally Kraft, Jeffrey Sleeth, Richard Welnick, Lori Hoschild, Jingshan Li -- Chapter 14: Disease prevention and control plans: state of the art and future research guideline; Wanying Chen, Alain Guinet, Angel Ruiz -- Chapter 15: A Goal-Programming Approach to the Master Surgical Scheduling Problem; Paola Cappanera, Filippo Visintin, Carlo Banditori -- Chapter 16: How Do Missing Patients Aggravate Emergency Department Overcrowding? A Real Case and a Simulation Study; Yong-Hong Kuo, Janny Leung, Colin A. Graham -- Chapter 17: System Dynamics Modeling of Emergent and Elective Patient Flows; Paolo Landa, Michele Sonnessa, Elena Tànfani, Angela Testi -- Chapter 18: Markov Decision Process Model for Patient Admission Decision at an Emergency Department in Disasters; Hyun-Rok Lee, Taesik Lee -- Chapter 19: Crisis Management Plan: Preventive Measures and Lessons Learned from a Major Computer System Failure; H  l  ne Grange, J  r  mie Leynon.

Sommario/riassunto

In this volume, scientists and practitioners write about new methods and technologies for improving the operation of health care organizations. Statistical analyses play an important role in these methods with the implications of simulation and modeling applied to the future of health care. Papers are based on work presented at the Second International Conference on Health Care Systems Engineering (HCSE2015) in Lyon, France. The conference was a rare opportunity for scientists and practitioners to share work directly with each other. Each resulting paper received a double blind review. Paper topics include: hospital drug logistics, emergency care, simulation in patient care, and models for home care services. Discusses statistical analysis and operations management for health care delivery systems based on real case studies Papers in this volume received a double blind review Brings together the work of scientists, practitioners, and clinicians to unite research and practice in the future of these systems Topics include: hospital drug logistics, emergency care, modeling and simulation in patient care and healthcare organizations and in home care services.
