Record Nr. UNISA996418280203316 Health Care Systems Engineering [[electronic resource]]: HCSE, **Titolo** Montréal, Canada, May 30 - June 1, 2019 / / edited by Valérie Bélanger. Nadia Lahrichi, Ettore Lanzarone, Semih Yalçnda Cham:,: Springer International Publishing:,: Imprint: Springer,, Pubbl/distr/stampa **ISBN** 3-030-39694-0 Edizione [1st ed. 2020.] 1 online resource (IX, 304 p. 49 illus., 34 illus. in color.) Descrizione fisica Springer Proceedings in Mathematics & Statistics, , 2194-1009;; 316 Collana 610.285 Disciplina Soggetti Operations research Management science Industrial engineering Production engineering Calculus of variations Health services administration Health informatics Operations Research, Management Science Industrial and Production Engineering Calculus of Variations and Optimal Control; Optimization **Health Administration Health Informatics** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto T. Foster, Non-emergency patient transfer scheduling and assignment -- Y.-H. Kuo, Non-emergency patients transportation with the consideration of user inconvenience -- P. Landa, Modelling hospital internal medicine wards to address patient complexity: a simulationoptimization approach -- C. Busby, Benefits of a Broader View: Patient Flow Modelling of Congested Hospitals -- L. Boyle, Coxian phase-type regression models for understanding the relationship between patient attributes, overcrowding, and length of stay in hospital emergency

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Sommario/riassunto

This book demonstrates how optimization, system engineering and statistics can help to improve health care provision and health systems. It gathers the proceedings of the Fourth International Conference on Health Care Systems Engineering (HCSE 2019), which was held in Montreal, Canada, from May 30 to June 1, 2019. The conference provided an opportunity to discuss operations management issues in health care delivery systems, and allowed scientists and practitioners to exchange their latest ideas, methods and technologies for improving the operation of health care organizations. The event was hosted at the Mother and Child University Hospital CHU Sainte-Justine in Montreal, and each session was co-chaired by a discussant from clinical practice, so as to promote close collaborations with clinicians. The respective chapters cover a broad range of concrete problems that pose challenges for researchers and practitioners alike: hospital drug logistics, operating theatre management, blood donation, home care services, modelling, simulation and process mining, and data mining at patient care and health care organizations. .