

1. Record Nr.	UNISA996202055003316
Titolo	20th IEEE International Symposium on Computer-Based Medical Systems (CBMS 2007): Maribor, Slovenia 20-22 June 2007
Pubbl/distr/stampa	[Place of publication not identified], : IEEE Computer Society Press, 2007
ISBN	1-5090-8690-0
Descrizione fisica	1 online resource (750, 118 papers pages) : illustrations
Disciplina	610.28563
Soggetti	Artificial intelligence - Medical applications Medicine - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	In this paper, we present a modelling framework for patient flow in a healthcare system using semi-open queueing network models, which introduces a total bed constraint, above which new patients will be refused admission. Hence this model provides a realistic representation of a real system. This approach enables us to have access to a range of established methods that deals with queueing network models. We demonstrate the usefulness of the model in the context of a geriatric department and show that hospital managers can use this model to gain better understanding of the dynamics of patient flow and to study potential long-term impacts of policy changes.