The modeling of healthcare components and systems in order to develop a complete understanding of component interactions is one of the more challenging simulation and modeling problems for software agent systems.

Multi-Agent Systems for Healthcare Simulation and Modeling: Applications for System Improvement provides relevant theoretical frameworks and the latest empirical research findings used by medical professionals in the implementation of multi-agent systems. This Premier Reference Source disseminates understanding on the strategic role of systems modeling in healthcare, a valuable resource to academicians, researchers, and field practitioners.

Subject:
Health Information Systems; Artificial Intelligence; Medical Technologies

Market:
This essential publication will be invaluable to academic, research, and medical libraries as well as those interested in the use of multi-agent modeling systems in healthcare. Healthcare professionals, information systems designers, application developers, and healthcare informatics researchers will find this resource provides comprehensive theories, trends, and practices in multi-agent systems use in the healthcare setting. Students and educators in healthcare systems design and healthcare provision will also benefit.
# Multi-Agent Systems for Healthcare Simulation and Modeling: Applications for System Improvement

Edited by: Raman Paranjape, University of Regina, Canada; Asha Sadanand, University of Guelph, Canada

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**Raman B. Paranjape** completed his BSc (1981), MSc (1984), and PhD (1989) degrees at the University of Alberta (Canada). His research interests are in both physical and software agent systems. Research in physical systems has focused on the development of sensor systems and new technologies in image and signal processing for real world application in robotics and automated systems for team formation using both passive and active sonar arrays. Research in software agents is focused on analysis and retrieval of medical data from distributed databases and modeling of agent and human societies. Dr. Paranjape has worked as research scientist, software engineer, project leader, and project manager in Canadian industry. He joined the University of Regina in 1997, and is currently a professor of electronic systems engineering and the Director of the Centre for Sustainable Communities.

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