The Digital Patient: Advancing Healthcare, Research, and Education (Wiley Series in Modeling and Simulation)

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A modern guide to computational models and constructive simulation for personalized patient care using the Digital Patient

The healthcare industry's emphasis is shifting from merely reacting to disease to preventing disease and promoting wellness. Addressing one of the more hopeful Big Data undertakings, *The Digital Patient: Advancing Healthcare, Research, and Education* presents a timely resource on the construction and deployment of the Digital Patient and its effects on healthcare, research, and education. The Digital Patient will not be constructed based solely on new information from all the "omics" fields; it also includes systems analysis, Big Data, and the various efforts to model the human physiome and represent it virtually. The Digital Patient will be realized through the purposeful collaboration of patients as well as scientific, clinical, and policy researchers.

The Digital Patient: Advancing Healthcare, Research, and Education addresses the international research efforts that are leading to the development of the Digital Patient, the wealth of ongoing research in systems biology and multiscale simulation, and the imminent applications within the domain of personalized healthcare. Chapter coverage includes:

- The visible human
- The physiological human
- The virtual human
- Research in systems biology
- Multi-scale modeling
- Personalized medicine
- Self-quantification
- Visualization
- Computational modeling
- Interdisciplinary collaboration

The Digital Patient: Advancing Healthcare, Research, and Education is a useful

reference for simulation professionals such as clinicians, medical directors, managers, simulation technologists, faculty members, and educators involved in research and development in the life sciences, physical sciences, and engineering. The book is also an ideal supplement for graduate-level courses related to human modeling, simulation, and visualization.

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- Sales Rank: #3083684 in Books
- Published on: 2016-01-11
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x .70" w x 7.00" l, .0 pounds
- Binding: Paperback
- 336 pages

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Editorial Review

From the Back Cover

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Users Review

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Marcia Eberhart:

The actual book The Digital Patient: Advancing Healthcare, Research, and Education (Wiley Series in Modeling and Simulation) will bring you to the new experience of reading any book. The author style to elucidate the idea is very unique. In case you try to find new book to learn, this book very suitable to you. The book The Digital Patient: Advancing Healthcare, Research, and Education (Wiley Series in Modeling and Simulation) is much recommended to you to read. You can also get the e-book through the official web site, so you can quickly to read the book.

Bradley Smith:

Exactly why? Because this The Digital Patient: Advancing Healthcare, Research, and Education (Wiley Series in Modeling and Simulation) is an unordinary book that the inside of the book waiting for you to snap that but latter it will surprise you with the secret this inside. Reading this book beside it was fantastic author who have write the book in such wonderful way makes the content on the inside easier to understand, entertaining approach but still convey the meaning fully. So , it is good for you for not hesitating having this any more or you going to regret it. This book will give you a lot of rewards than the other book include such as help improving your ability and your critical thinking way. So , still want to delay having that book? If I ended up you I will go to the e-book store hurriedly.

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