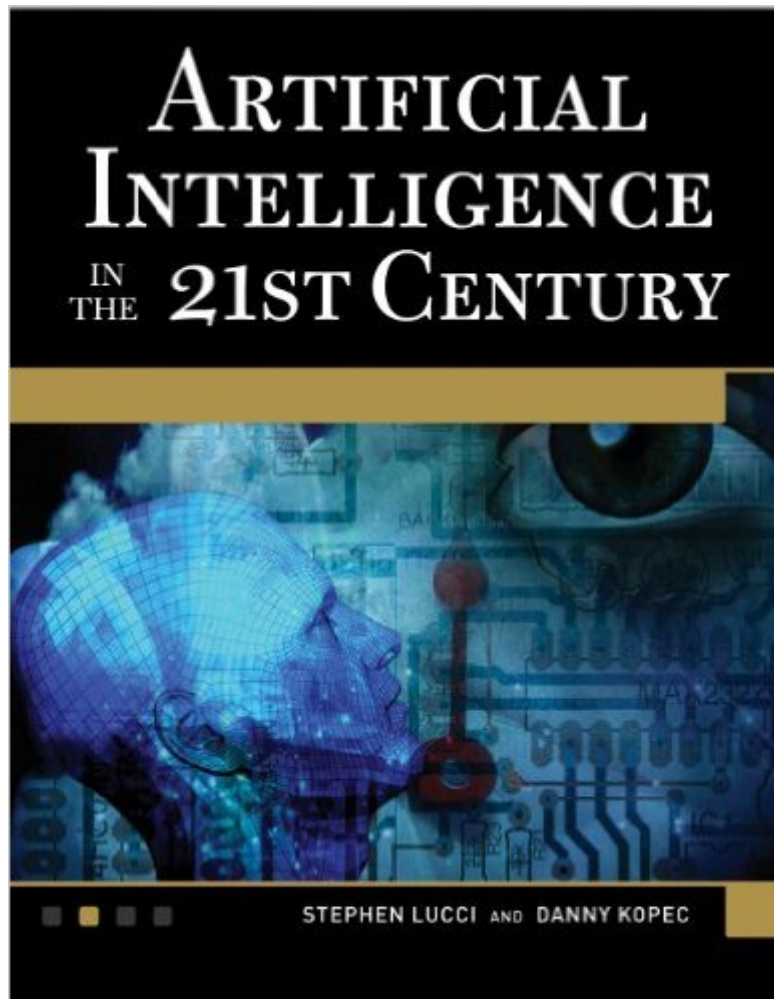


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Artificial Intelligence In The 21st Century



Synopsis

Artificial Intelligence is a quickly changing field that has gone from theory and promise to delivery and practice in a meteoric way in recent years. This text provides a comprehensive, colorful, up to date, and accessible presentation of AI without sacrificing theoretical foundations. It includes numerous examples, applications, full color images, and human interest boxes to enhance student learning. Advanced topics cover neural nets, genetic algorithms, and complex board games. A companion DVD is included with resources, simulations, and figures from the book. Numerous instructorsâ™ resources are available upon adoption.

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Customer Reviews

“Artificial Intelligence in the 21st Century” by Lucci and Kopec is a resourceful, book that is user friendly with illustrative and intellectual appeal. After reading Chapter One I was hooked by the interesting historical overview and discourse of salient issues and research areas in the field. I work in the medical profession and I am fascinated by the prospect of a computer performing at or near the level of a human being. Advances in computer science and medical technology created the electronic health record; diagnostic equipment for the early detection and treatment of cancer; minimally invasive surgery using robotic techniques and congestive heart failure remote monitoring programs. My special interest in artificial intelligence (AI) is expert systems. Early AI systems often used the medical arena as a test bed. So, naturally I skipped to Chapter Nine which served as an insightful introduction to this field. Learning is another branch of AI that has intrigued me; how does

one build systems that are capable over time to improve their performance? I found Chapter Eleven to be fascinating. The discussion on simulated annealing, genetic algorithms, and ant colony optimization were enlightening. The mathematics in Chapter Ten on neural networks was a tad overwhelming, as I am not a math major. However, I really like the conversational tone, graphics and illustrations which make this text book user friendly. I especially like the "Human Interest Notes" that provide a snap shot and overview of prolific contributors in the field of AI. I found the "Questions for Discussion" and "Exercises" well structured, original and designed to stimulate sustained interest and provide an in-depth understanding of the topics.

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