Artificial Intelligence in the 21st Century Second Edition

Stephen Lucci, Danny Kopec

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This new edition 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 interest. New chapters on robotics and machine learning are now included. Advanced topics cover neural nets, genetic algorithms, natural language processing, planning, and complex board games. A companion DVD is provided with resources, applications, and figures from the book[Companion files available from publisher with Amazon order number by writing to info@merclearning.com]. Numerous instructors' resources are available upon adoption.

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+Includes new chapters on robotics and machine learning and new sections on speech understanding and metaphor in NLP
+Provides a comprehensive, colorful, up to date, and accessible presentation of AI without sacrificing theoretical foundations
+Uses numerous examples, applications, full color images, and human interest boxes to enhance student interest
+Introduces important AI concepts e.g., robotics, use in video games, neural nets, machine learning, and more thorough practical applications
+Features over 300 figures and color images with worked problems
detailing AI methods and solutions to selected exercises
+Includes DVD with resources, simulations, and figures from the book[Companion files available from publisher with Amazon order number by writing to info@merclearning.com].
+Provides numerous instructors' resources, including: solutions to exercises, Microsoft PP slides, etc.

Brief Table of Contents
1: Overview of Artificial Intelligence. 2: Uninformed Search. 3: Informed Search. 4 : Search Using Games. 5: Logic in Artificial Intelligence. 6: Knowledge Representation. 7: Production Systems. 8: Uncertainty in AI. 9: Expert Systems. 10: Machine Learning: Inductive Learning. 11: Machine Learning: Neural Networks. 12: Search Inspired by Mother Nature. 13: Natural Language Processing. 14: Automated Planning. 15: Robotics. 16: Advanced Computer Games. 17: Reprise. Appendices. Index.

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+Solutions to selected exercises

About the Authors
+Stephen Lucci holds a PhD from the CUNY Graduate School and currently teaches computer science at The City College of New York. Dr. Lucci has published in the areas of high performance computing and has been co-PI on education grants from NASA MU-SPIN.
+Danny Kopec holds a PhD from the University of Edinburgh and teaches at Brooklyn College and the CUNY Graduate Center. He has authored several books, conference and journal articles, and is an International Chess Master.

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