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Descrizione fisica	1 online resource (493 pages)
Collana	IEEE Press Series on Computational Intelligence
Altri autori (Persone)	AbbassHussein A LeuGeorge
Disciplina	153.43
Soggetti	Problem solving Simulation methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	13.4 COMPUTATIONAL RED TEAMING PURPOSES
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro; TITLE PAGE; COPYRIGHT PAGE; CONTENTS; LIST OF FIGURES; LIST OF TABLES; PREFACE; PART I ON PROBLEM SOLVING, COMPUTATIONAL RED TEAMING, AND SIMULATION; CHAPTER 1 PROBLEM SOLVING, SIMULATION, AND COMPUTATIONAL RED CHAPTER 1 PROBLEM SOLVING, SIMULATION, AND COMPUTATIONAL RED TEAMING; 1.1 INTRODUCTION; 1.2 PROBLEM SOLVING; 1.3 COMPUTATIONAL RED TEAMING AND SELF-VERIFICATION AND VALIDATION'; CHAPTER 2 INTRODUCTION TO FUNDAMENTALS OF SIMULATION; 2.1 INTRODUCTION; 2.2 SYSTEM; 2.3 CONCEPTS IN SIMULATION; 2.4 SIMULATION TYPES; 2.5 TOOLS FOR SIMULATION; 2.6 CONCLUSION PART II BEFORE SIMULATION STARTSCHAPTER 3 THE SIMULATION PROCESS; 3.1 INTRODUCTION; 3.2 DEFINE THE SYSTEM AND ITS ENVIRONMENT; 3.3 BUILD A MODEL; 3.4 ENCODE A SIMULATOR; 3.5 DESIGN SAMPLING MECHANISMS; 3.6 RUN SIMULATOR UNDER DIFFERENT SAMPLES; 3.7 SUMMARISE RESULTS; 3.8 MAKE A RECOMMENDATION; 3.9 AN EVOLUTIONARY APPROACH; 3.10 A BATTLE SIMULATION BY LANCHESTER SQUARE LAW; CHAPTER 4 SIMULATION WORLDVIEW AND CONFLICT RESOLUTION; 4.1 SIMULATION

WORLDVIEW; 4.2 SIMULTANEOUS EVENTS AND CONFLICTS IN SIMULATION; 4.3 PRIORITY QUEUE AND BINARY HEAP; 4.4 CONCLUSION
 CHAPTER 5 THE LANGUAGE OF ABSTRACTION AND REPRESENTATION
 5.1 INTRODUCTION; 5.2 INFORMAL REPRESENTATION; 5.3 SEMI-FORMAL REPRESENTATION; 5.4 FORMAL REPRESENTATION; 5.5 FINITE-STATE MACHINE; 5.6 ANT IN MAZE MODELLED BY FINITE-STATE MACHINE; 5.7 CONCLUSION; CHAPTER 6 EXPERIMENTAL DESIGN; 6.1 INTRODUCTION; 6.2 FACTOR SCREENING; 6.3 METAMODEL AND RESPONSE SURFACE; 6.4 INPUT SAMPLING; 6.5 OUTPUT ANALYSIS; 6.6 CONCLUSION; PART III SIMULATION METHODOLOGIES; CHAPTER 7 DISCRETE EVENT SIMULATION; 7.1 DISCRETE EVENT SYSTEMS; 7.2 DISCRETE EVENT SIMULATION; 7.3 CONCLUSION; CHAPTER 8 DISCRETE TIME SIMULATION
 8.1 INTRODUCTION; 8.2 DISCRETE TIME SYSTEM AND MODELLING; 8.3 SAMPLE PATH; 8.4 DISCRETE TIME SIMULATION AND DISCRETE EVENT SIMULATION; 8.5 A CASE STUDY: CAR-FOLLOWING MODEL; 8.6 CONCLUSION; CHAPTER 9 CONTINUOUS SIMULATION; 9.1 CONTINUOUS SYSTEM; 9.2 CONTINUOUS SIMULATION; 9.3 NUMERICAL SOLUTION TECHNIQUES FOR CONTINUOUS SIMULATION; 9.4 SYSTEM DYNAMICS APPROACH; 9.5 COMBINED DISCRETE-CONTINUOUS SIMULATION; 9.6 CONCLUSION; CHAPTER 10 AGENT-BASED SIMULATION; 10.1 INTRODUCTION; 10.2 AGENT-BASED SIMULATION; 10.3 EXAMPLES OF AGENT-BASED SIMULATION; 10.4 CONCLUSION
 PART IV SIMULATION AND COMPUTATIONAL RED TEAMING SYSTEMS
 CHAPTER 11 KNOWLEDGE ACQUISITION; 11.1 INTRODUCTION; 11.2 AGENT-ENABLED KNOWLEDGE ACQUISITION: CORE PROCESSES; 11.3 HUMAN AGENTS; 11.4 HUMAN-INSPIRED AGENTS; 11.5 MACHINE AGENTS; 11.6 SUMMARY DISCUSSION AND PERSPECTIVES ON KNOWLEDGE ACQUISITION; CHAPTER 12 COMPUTATIONAL INTELLIGENCE; 12.1 INTRODUCTION; 12.2 EVOLUTIONARY COMPUTATION; 12.3 ARTIFICIAL NEURAL NETWORKS; 12.4 CONCLUSION; CHAPTER 13 COMPUTATIONAL RED TEAMING; 13.1 INTRODUCTION; 13.2 COMPUTATIONAL RED TEAMING: THE CHALLENGE LOOP; 13.3 COMPUTATIONAL RED TEAMING OBJECTS

Sommario/riassunto

AN AUTHORITATIVE GUIDE TO COMPUTER SIMULATION GROUNDED IN A MULTI-DISCIPLINARY APPROACH FOR SOLVING COMPLEX PROBLEMS

Simulation and Computational Red Teaming for Problem Solving offers a review of computer simulation that is grounded in a multi-disciplinary approach. The authors present the theoretical foundations of simulation and modeling paradigms from the perspective of an analyst. The book provides the fundamental background information needed for designing and developing consistent and useful simulations. In addition to this basic information, the authors explore several advanced topics. The book's advanced topics demonstrate how modern artificial intelligence and computational intelligence concepts and techniques can be combined with various simulation paradigms for solving complex and critical problems. Authors examine the concept of Computational Red Teaming to reveal how the combined fundamentals and advanced techniques are used successfully for solving and testing complex real-world problems. This important book: . Demonstrates how computer simulation and Computational Red Teaming support each other for solving complex problems. Describes the main approaches to modeling real-world phenomena and embedding these models into computer simulations. Explores how a number of advanced artificial intelligence and computational intelligence concepts are used in conjunction with the fundamental aspects of simulation Written for researchers and students in the computational modelling and data analysis fields, Simulation and Computational Red Teaming for Problem

Solving covers the foundation and the standard elements of the process of building a simulation and explores the simulation topic with a modern research approach.

2. Record Nr.	UNINA9910812132903321
Titolo	Cancer and aging handbook : research and practice / / edited by Keith M. Bellizzi, Margot A. Gosney
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Blackwell, c2012
ISBN	9781782685517 1782685510 9781118312490 111831249X 9781283950107 1283950103 9781118312513 1118312511 9781118312483 1118312481
Edizione	[1st ed.]
Descrizione fisica	xvi, 520 p. : ill
Altri autori (Persone)	BellizziKeith M GosneyMargot
Disciplina	616.99/4
Soggetti	Cancer Aging
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. I. Cancer and aging in context -- pt. II. Strategies for cancer prevention in older adults -- pt. III. Cancer screening guidelines for older adults -- pt. IV. Cancer treatment -- pt. V. Common cancers in the elderly -- pt. VI. Cancer survivorship and aging -- pt. VII. End-of-life care -- pt. VIII. Emerging issues.
Sommario/riassunto	"First multidisciplinary book available that examines the cancer and

aging interface. Include specific points about how cancer and aging interrelate to guide training, research, and intervention"--Provided by publisher.

3. Record Nr.	UNINA9910702820803321
Titolo	Identification of plant parasitic nematodes for action agencies ... annual report
Pubbl/distr/stampa	Washington, D.C., : U.S. Dept. of Agriculture, Agricultural Research Service
ISSN	2151-9129
Descrizione fisica	: HTML files
Disciplina	635
Soggetti	Plant nematodes Nonindigenous pests Alien plants - Inspection invasive species Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico