1. Record Nr. UNINA9910783217603321

Autore	Ilachinski Andrew
Titolo	Artificial war [[electronic resource]] : multi-based simulation of combat / / Andrew Ilachinski
Pubbl/distr/stampa	River Edge, NJ, : World Scientific Pub., 2004
ISBN	1-281-87238-5 9786611872380 981-256-240-0
Descrizione fisica	1 online resource (782 p.)
Disciplina	355.4/01/1
Soggetti	War - Mathematical models War - Computer simulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Artificial War: Multiagent-Based Simulation of Combat; Foreword; Preface; Acknowledgments; Contents; Chapter 1 Introduction; Chapter 2 Nonlinear Dynamics, Deterministic Chaos and Complex Adaptive Systems: A Primer; Chapter 3 Nonlinearity, Complexity, and Warfare: Eight Tiers of Applicability; Chapter 4 EINSTein: Mathematical Overview; Chapter 5 EINSTein: Methodology; Chapter 6: Sample EINSTein:Sample Behavior; Chapter 7 Breeding Agents; Chapter 8 Concluding Remarks & Speculations; Appendix A Additional Resources; Appendix B EINSTein Homepage; Appendix C EINSTein Development Tools Appendix D Installing EINSTeinAppendix E A Concise User's Guide to EINSTein; Appendix F Differences Between EINSTein Versions 1.0 (and older) and 1.1 (and newer); Appendix G EINSTein's Data Files; Bibliography; Index
Sommario/riassunto	Military conflicts, particularly land combat, possess thecharacteristics of complex adaptive systems: combat forces arecomposed of a large number of nonlinearly interacting parts and areorganized in a dynamic command-and-control network; local action,which often appears disordered, self-organizes into long-range order;military conflicts, by their nature, proceed far from equilibrium;military forces adapt to a changing combat environment; and there isno master ""voice"" that

dictates the actions of every soldier (i.

2. Record Nr. UNINA9910674028803321

Autore	Sanchez-Rojas Jose Luis
Titolo	Piezoelectric Transducers : Materials, Devices and Applications
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 online resource (524 p.)
Soggetti	History of engineering and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Advances in miniaturization of sensors, actuators, and smart systems are receiving substantial industrial attention, and a wide variety of transducers are commercially available or with high potential to impact emerging markets. Substituting existing products based on bulk materials, in fields such as automotive, environment, food, robotics, medicine, biotechnology, communications, and other technologies, with reduced size, lower cost, and higher performance, is now possible, with potential for manufacturing using advanced silicon integrated circuits technology or alternative additive techniques from the mili- to the nano-scale. In this Special Issue, which is focused on piezoelectric transducers, a wide range of topics are covered, including the design, fabrication, characterization, packaging, and system integration or final applications of mili/micro/nano-electro-mechanical systems based transducers.