

1. Record Nr.	UNINA9910464514203321
Titolo	International assessment of research and development in simulation-based engineering and science [[electronic resource] /] / editor, Sharon C. Glotzer
Pubbl/distr/stampa	London, : Imperial College Press Singapore ; ; Hackensack, N.J., : Distributed by World Scientific Publishing, c2011
ISBN	1-84816-698-2
Descrizione fisica	1 online resource (313 p.)
Altri autori (Persone)	GlotzerSharon C
Disciplina	003/.3
Soggetti	Computer simulation - Research Electronic books.
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.
Nota di contenuto	CONTENTS; FOREWORD; PREFACE; ABSTRACT; ADDENDUM; EXECUTIVE SUMMARY; 1 Background; 2 Major Trends in SBE&S Research and Development; 3 Threats to U.S. Leadership in SBE&S; 4 Opportunities for the United States to Gain or Reinforce Lead in SBE&S through Strategic Research and Investments; 5 Key Study Findings; 5.1 Thematic Area: Life Sciences and Medicine; 5.2 Thematic Area: Materials; 5.3 Thematic Area: Energy and Sustainability; 5.4 Crosscutting Issues: Next Generation Architectures and Algorithms; 5.5 Crosscutting Issues: Scientific and Engineering Simulation Software Development 5.6 Crosscutting Issues: Engineering Simulation5.7 Crosscutting Issues: Validation, Verification, and Uncertainty Quantification; 5.8 Crosscutting Issues: Multiscale Modeling and Simulation; 5.9 Crosscutting Issues: Big Data, Visualization, and Data-driven Simulation; 5.10 Crosscutting Issues: Education and Training; References; Further Reading; Chapter 1 INTRODUCTION; 1.1 Background and Scope; 1.2 Methodology; 1.3 Overview of the Report; References; Chapter 2 LIFE SCIENCES AND MEDICINE; 2.1 Introduction; 2.2 Molecular Dynamics; 2.3 Systems Biology; 2.3.1 Systems Biology Institute, Japan 2.3.2 Vrije University, The Netherlands2.3.3 Technical University of

Denmark; 2.3.4 U.S. Systems Biology Efforts; 2.4 Biophysical Modeling; 2.4.1 International Physiome Project; 2.4.2 EPFL Arterial Map; 2.4.3 EPFL Blue Brain Project; 2.4.4 U.S. Biophysical Modeling Efforts; 2.5 Summary of Key Findings; References; Chapter 3 MATERIALS SIMULATION; 3.1 Introduction; 3.2 Current State of the Art in Materials Simulation; 3.3 Materials Simulation Code Development; 3.4 Materials Simulation Highlights; 3.4.1 Mitsubishi Chemical; 3.4.2 Toyota Central R&D Labs, Inc. 3.4.3 Joint Laboratory of Polymer Science and Materials, Institute of Chemistry, Chinese Academy of Sciences 3.4.4 Materials Simulation Code Development in the UK; 3.4.5 Fraunhofer Institute for the Mechanics of Materials; 3.4.6 Energy Applications of Materials at Daresbury Laboratory; 3.5 Summary of Key Findings; References; Chapter 4 ENERGY AND SUSTAINABILITY; 4.1 Introduction; 4.2 SBE&S Research Activities in North America; 4.2.1 Analysis of Energy and CO2 Emission; 4.2.2 Modeling System Reliability of Electric Power Networks 4.2.3 Modeling Civil Infrastructure Systems Resilience and Sustainability 4.3 SBE&S Research Activities in Asia; 4.3.1 Modeling System Reliability of the Electric Power Network; 4.3.1.1 National Center for Research on Earthquake Engineering (NCREE), Taipei Taiwan; 4.3.1.2 Central Research Institute for Electric Power Industry (CRIEPI), Tokyo, Japan, and Chugoku Electric Power, Hiroshima, Japan; 4.3.2 Modeling Civil Infrastructure Systems Resilience and Sustainability; 4.3.2.1 Pusan Port Authority, Pusan, Korea 4.3.2.2 Disaster Control Research Center, School of Engineering, Tohoku University, Japan

Sommario/riassunto

Simulation-Based Engineering and Science (SBE&S) cuts across disciplines, showing tremendous promise in areas from storm prediction and climate modeling to understanding the brain and the behavior of numerous other complex systems. In this groundbreaking volume, nine distinguished leaders assess the latest research trends, as a result of 52 site visits in Europe and Asia and hundreds of hours of expert interviews, and discuss the implications of their findings for the US government. The authors conclude that while the US remains the quantitative leader in SBE&S research and development, it is very much in danger of losing that edge to Europe and Asia. WETC panel report commissioned by the National Science Foundation.

2. Record Nr.	UNINA9910774826703321
Autore	Galante Andrea
Titolo	Legalita e mutamenti giurisprudenziali nel diritto penale : Fondamento e limiti del divieto di retroattivita dei mutamenti giurisprudenziali sfavorevoli // Andrea Galante
Pubbl/distr/stampa	Florence : , : Firenze University Press, , 2021
Descrizione fisica	1 online resource (284 pages)
Collana	Premio tesi di dottorato
Disciplina	345
Soggetti	Criminal law
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>Prefazione -- Abbreviazioni -- Introduzione -- PARTE I. IL PARADIGMA LEGALISTA DELLA LEGALITA E IL DIRITTO GIURISPRUDENZIALE COME «DEFORMANTE» DELLA LEGALITA -- PARTE II. IL PARADIGMA EFFETTUALE DELLA LEGALITA E IL DIRITTO GIURISPRUDENZIALE COME «FORMANTE» DELLA LEGALITA -- Riflessioni conclusive.</p> <p>Introduction -- Two cases in point -- Part I. The "legalist" paradigm of the legality in criminal law and the judgemade law as a legality's flaw -- Part II. The "effectual" paradigm of the legality in criminal law and the judge-made law as a legality's improvement -- Bibliografia.</p>
Sommario/riassunto	<p>Se il legislatore volesse incriminare nuove condotte o aggravare il trattamento sanzionatorio previsto per tipologie di condotte gia penalmente rilevanti, lo potrebbe fare solo con efficacia per il futuro in virtu del divieto costituzionale di retroattivita. Qualora un comportamento penalmente irrilevante al momento della sua commissione diventi, al contrario, penalmente rilevante a seguito del verificarsi di un cambio di interpretazione giurisprudenziale oppure finisca per essere sanzionato in astratto con pene piu sfavorevoli, quali garanzie sono riconosciute al cittadino? Il lavoro affronta, in prospettiva anche europea e comparata, il tema delle garanzie costituzionali riconosciute al singolo a fronte del verificarsi di un mutamento giurisprudenziale produttivo di conseguenze sfavorevoli.</p> <p>Over the past several years, constitutional, supreme and human rights courts had to deal with the problem of adjudicative retroactivity in</p>

criminal law with ever-greater intensity. Following the case *Contrada c. Italie*, in which the European Court of Human Rights found a violation of the legality principle under Art. 7 due to an unforeseeable retrospective application of a judicially created criminal offence, the issue of citizens' safeguard upon an overruling occurrence is even more in the foreground. What temporal effect is best given to an unfavorable overruling decision? Should its application be limited to acts and conduct occurring after it or should it operate retrospectively and subject to criminal responsibility those who, acting in reliance on an earlier decision, did only what courts declared to be lawful? A limited prohibition of adjudicative retroactivity in criminal law seems to help foster an up-to-date relationship between the individual and the state.
