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5.1 What is a Dynamical System?

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CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): to work on various dynamical realization problems; some of this work appears in [1]. The main results concern the dimension (as a \mathbb{Z} -module) of the space of sequences that are realizable (count periodic points for some map) and are linear recurrence sequences. Theorem: Let Δ denote the discriminant of the ...

Dynamical aspects of linear recurrence sequences: Final report

DAEs contribute to the final evaluation results at varying degrees. ... However, DLCA research is still in its infancy, as demonstrated by the lack of systematic analysis regarding the dynamic aspects that should be considered. By examining the data transformation pathway in accordance with the standard LCA framework, this study formalizes four ...

Dynamic assessment elements and their prospective ...

Journal of Advanced Research in Dynamical and Control Systems examines the entire spectrum of issues related to dynamical systems, focusing on the theory of smooth dynamical systems with analyses of

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measure-theoretical, topological, and bifurcational aspects. It covers all essential branches of the theory--local, semi local, and global--including the theory of foliations.

Journal of Advanced Research in Dynamical and Control ...

The final general characteristic of the dynamic-programming approach is the development of a recursive optimization procedure, which builds to a solution of the overall N-stage problem by first solving a one-stage problem and sequentially including one stage at a time and solving one-stage problems until the overall optimum has been found.

Dynamic Programming 11

Understanding dynamic constraints and balances in nature has facilitated rapid development of knowledge and enabled technology, including aircraft, combustion engines, satellites, and electrical power. This work develops a novel framework to discover governing equations underlying a dynamical system simply from data measurements, leveraging advances in sparsity techniques and machine learning.

Discovering governing equations from data by sparse ...

EXAMPLES OF DYNAMICAL SYSTEMS 1. the trajectory of a planet follows an ellipse admitting the Sun as a focus, 2. equal areas, measured with respect to the Sun, are swept in equal time intervals, 3. when several planets orbit the Sun, the period of the motion squared is proportional to the third power of the semi-major axis of the ellipse.

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Geometrical Theory of Dynamical Systems - arXiv

Exercises See LorenzEquations.m for an example of a continuous-time chaotic dynamical system and LogisticFunction.m for an example of a discrete-time chaotic dynamical systems.. Cellular automata are special cases of dynamical systems corresponding to finite state machines. For more on cellular automata see CellularAutomata.m The notebook TimeSeries.m contains examples of time series generated ...

Introduction to Learning Dynamical Systems

Researchers mistakenly posting final versions to ResearchGate (one study found 52% of papers in a random sample were infringing because they were the wrong version) was likely the trigger for publishers ' actions against the platform. Note that this taxonomy has nothing to do with copyright law; it is a creature of publisher contracts and ...

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Experienced, Knowledgeable, and Friendly ... - Dynamic Aspects

A differential equation is an equation involving an unknown function and its derivatives.. In a dynamical system, a fixed rule describes the time dependence of a point in a geometrical space. The mathematical models used to describe the swinging of a clock pendulum, the flow of water in a pipe, or the number of fish each spring in a lake are examples of dynamical systems.

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This book considers global solutions to the restricted three-body problem from a geometric point of view. The authors seek dynamical channels in the phase space which wind around the planets and moons and naturally connect them. These low energy passageways could slash the amount of fuel spacecraft need to explore and develop our solar system. In order to effectively exploit these passageways, the book addresses the global transport. It goes beyond the traditional scope of libration point mission design, developing tools for the design of trajectories which take full advantage of natural three or more body dynamics, thereby saving precious fuel and gaining flexibility in mission planning. This is the key for the development of some NASA mission trajectories, such as low energy libration point orbit missions (e.g., the sample return Genesis Discovery Mission), low energy lunar missions and low energy tours of outer planet moon systems, such as a mission to tour and explore in detail the icy moons of Jupiter. This book can serve as a valuable resource for graduate students and advanced undergraduates in applied mathematics and aerospace engineering, as well as a manual for practitioners who work on libration point and deep space missions in industry and at government laboratories. The authors include a wealth of background material, but also bring the reader up to a portion of the research frontier.

This book offers an assessment of the performance, impact, and welfare implications of the world's largest employment guarantee programme, the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA). Launched by the Indian government, the programme covers entire rural area of the country. The book presents various micro-level analyses of the programme and its

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heterogeneous impacts at different scales, almost a decade after its implementation. While there are some doubts over the future of the scheme as well as its magnitude, nature and content, the central government appears committed to it, as a ' convergence scheme ' of various other welfare and rural development programmes being implemented at both national and state level. The book discusses the outcomes of the programme and offers critical insights into the lessons learnt, not only in the context of India, but also for similar schemes in countries in South and South-East Asia as well as in Africa, and Latin America. Adopting inter-disciplinary perspectives in analysing these issues, this unique book uses a judicious mix of methods---integrating quantitative and qualitative tools---and will be an invaluable resource for analysts, NGOs, policymakers and academics alike.

Today ' s leading authority on the subject of this text is the author, MIT Standish Professor of Management and Director of the System Dynamics Group, John D. Sterman. Sterman ' s objective is to explain, in a true textbook format, what system dynamics is, and how it can be successfully applied to solve business and organizational problems. System dynamics is both a currently utilized approach to organizational problem solving at the professional level, and a field of study in business, engineering, and social and physical sciences.

In this provocative and broad-ranging work, the authors argue that the ways in which knowledge - scientific, social and cultural - is produced are undergoing fundamental changes at the end of the twentieth century. They claim that these changes mark a distinct shift into a new mode of knowledge production which is replacing or reforming established institutions, disciplines, practices and policies. Identifying features of the new mode of knowledge production - reflexivity, transdisciplinarity,

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heterogeneity - the authors show how these features connect with the changing role of knowledge in social relations. While the knowledge produced by research and development in science and technology is accorded central concern, the

Digital methodologies, new forms of data visualization and computer-based learning and assessment are creating new challenges as well as opportunities for scholars in educational research. The World Yearbook of Education 2019 explores this highly relevant topic, opening a new discussion about the various conceptual and methodological challenges and opportunities in contemporary educational research. This volume explores contemporary methods of inquiry, with chapters organized around four topics of enduring interest in this field: impacts, patterns, relations and contexts. The World Yearbook of Education 2019 comprises contributions from internationally renowned scholars exploring novel concepts and methodologies in grappling with contemporary empirical phenomena in educational research. Vital questions such as how we understand the technological developments that are creating new possibilities for and demands on education, and how we make sense of complex cases that cut across multiple nations, are discussed. This newest addition to the prestigious World Yearbook of Education series provides a fascinating read for scholars in the fields of education policy and comparative education. It is not only a useful resource for educational researchers and policy makers examining new trends and emerging issues, but would be of interest to graduate students exploring innovative methodologies, particularly in the study of education and education policy.

This book is concerned with helping you improve your approach to decision-making. The author examines judgement in a selection of managerial contexts and provides important understanding that

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can help you make better leadership decisions. The book also pinpoints the in-house politics of organisational decision-making. Drawing on the very latest research, it introduces practical techniques that show you how to analyse and develop your own decision-making style. It will help you to deliver sharp and insightful analyses of your business and develop effective solutions. In addition, it presents simple checklists that will give you vital insights throughout the decision-making process. Students and practitioners of leadership, management, and allied fields will find this book useful in order to understand and implement useful methods.

Dynamic assessment embeds interaction within the framework of a test-intervene-retest approach to psychoeducational assessment. This book offers an introduction to diagnostic assessors in psychology, education, and speech/language pathology to the basic ideas, principles, and practices of dynamic assessment. Most importantly, the book presents an array of specific procedures developed and used by the authors that can be applied to clients of all ages in both clinical and educational settings. The authors discuss their approach to report-writing, with a number of examples to demonstrate how they incorporate dynamic assessment into a comprehensive approach to assessment. The text concludes with a discussion of issues and questions that need to be considered and addressed. Two appendixes include descriptions of additional tests used by the authors that are adapted for dynamic assessment, as well as information about dynamic assessment procedures developed by others and sources for additional information about this approach.

The Millennium Dome, Braveheart and Rolls Royce cars. How do cultural icons reproduce and transform a sense of national identity? How does national identity vary across time and space, how is it

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contested, and what has been the impact of globalization upon national identity and culture? This book examines how national identity is represented, performed, spatialized and materialized through popular culture and in everyday life. National identity is revealed to be inherent in the things we often take for granted - from landscapes and eating habits, to tourism, cinema and music. Our specific experience of car ownership and motoring can enhance a sense of belonging, whilst Hollywood blockbusters and national exhibitions provide contexts for the ongoing, and often contested, process of national identity formation. These and a wealth of other cultural forms and practices are explored, with examples drawn from Scotland, the UK as a whole, India and Mauritius. This book addresses the considerable neglect of popular cultures in recent studies of nationalism and contributes to debates on the relationship between 'high' and 'low' culture.

The concept of effectuation is as subtle as it is profound. On the one hand, it challenges long held beliefs about the nature of cause and effect in social science. On the other hand, it generates a host of new insights about social phenomena. This concept is particularly well suited to analyzing entrepreneurial behavior behaviors undertaken in settings where the relationship between cause and effect is understood, at best, very poorly. Jay B. Barney, The Ohio State University, US Things rarely turn out as we expected or intended. Neither rational choice between well-defined prospects nor commitment to a vision, which can be realised by will power or persuasion, offers a credible representation of much human activity even the activities of entrepreneurs. But although uncertainty (or unknowledge) is inescapable it may be productively managed. If we understand our present circumstances and some of its possibilities, build constructive relationships with others, and be ready to adjust both our objectives and the means of achieving them in order to take advantage of new contingencies, then we can at least

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participate in shaping our own future. By taking this perspective Saras Sarasvathy makes entrepreneurship a natural human activity, expressing the limitations and potential of human motivation and human intelligence. Brian J. Loasby, University of Stirling, UK In *Effectuation* Saras Sarasvathy presents a carefully researched and reasoned view of entrepreneurial behavior that both challenges and extends prevailing wisdom in the field. There is little doubt that these ideas will serve as an important foundation for anyone desirous of stimulating positive action in the world. With *Effectuation* we are equipped to provide a generation of students and managers with the methods to make and find opportunities that create value. . . everywhere. Leonard A. Schlesinger, President, Babson College, US To effectuate is to engage in a specific type of entrepreneurial action. It has special importance for situations where the future is truly unknowable or human agency is of primary importance. In *Effectuation*, Saras Sarasvathy explores the theory and techniques of non-predictive control for creating new firms, markets and economic opportunities. Using empirical and theoretical work done in collaboration with Nobel Laureate Herbert A. Simon, the author employs methods from cognitive science and behavioral economics to develop the notion of entrepreneurial expertise and effectuation. Supportive empirical evidence is provided by the author's study of 27 entrepreneurs as well as other independent studies. The book then traces the consequences of effectuation for business management, economics and social philosophy. The author finds that effectuators generate constraint-satisfying solutions rather than searching for optimal ones, make rather than find opportunities, and in a deep sense, convert as-if propositions into even-if ones. The way they accomplish this is the central discussion of the book. Students and scholars of entrepreneurship will find this path-breaking research of great value. The book's conclusions will also be of interest to those in the fields of behavioral and evolutionary economics, cognitive science and management.

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The Book The behaviour of helicopters and tiltrotor aircraft is so complex that understanding the physical mechanisms at work in trim, stability and response, and thus the prediction of Flying Qualities, requires a framework of analytical and numerical modelling and simulation. Good Flying Qualities are vital for ensuring that mission performance is achievable with safety and, in the first and second editions of Helicopter Flight Dynamics, a comprehensive treatment of design criteria was presented, relating to both normal and degraded Flying Qualities. Fully embracing the consequences of Degraded Flying Qualities during the design phase will contribute positively to safety. In this third edition, two new Chapters are included. Chapter 9 takes the reader on a journey from the origins of the story of Flying Qualities, tracing key contributions to the developing maturity and to the current position. Chapter 10 provides a comprehensive treatment of the Flight Dynamics of tiltrotor aircraft; informed by research activities and the limited data on operational aircraft. Many of the unique behavioural characteristics of tiltrotors are revealed for the first time in this book. The accurate prediction and assessment of Flying Qualities draws on the modelling and simulation discipline on the one hand and testing practice on the other. Checking predictions in flight requires clearly defined mission tasks, derived from realistic performance requirements. High fidelity simulations also form the basis for the design of stability and control augmentation systems, essential for conferring Level 1 Flying Qualities. The integrated description of flight dynamic modelling, simulation and flying qualities of rotorcraft forms the subject of this book, which will be of interest to engineers practising and honing their skills in research laboratories, academia and manufacturing industries, test pilots and flight test engineers, and as a reference for graduate and postgraduate students in aerospace engineering.

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