

Generative Social Science Studies In Agent Based Computational Modeling Princeton Studies In Complexity

[#Generative Social Science](#) [#Agent-Based Modeling](#) [#Computational Modeling](#) [#Princeton Studies in Complexity](#) [#Social Simulation](#)

Explore the innovative field of Generative Social Science through Agent-Based Computational Modeling, a key area explored in the Princeton Studies in Complexity series. This approach utilizes computational models to simulate social phenomena, providing insights into complex social systems and emergent behavior, offering a powerful tool for understanding and addressing pressing social challenges.

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Generative Social Science Studies In Agent Based Computational Modeling Princeton Studies In Complexity

Why Agent-Based models are Social Sciences' future=~~Why~~ Why Agent-Based models are Social Sciences' future=~~by~~ Social Complexity / Computational Social Science 1,562 views 3 years ago 9 minutes, 14 seconds - Are **agent-based models**, really the future of the **social sciences**,? Why is that? What makes **agent-based modelling**, so powerful?

Intro

The opinion dynamics example

Using agent-based models

Bounded confidence

Revealing hidden hypotheses

Falsifiability

Science goes further

Simulations of society

Disclaimer

Agent-Based Modeling: What is Agent-Based Modeling? - Agent-Based Modeling: What is

Agent-Based Modeling? by Complexity Explorer 91,372 views 5 years ago 5 minutes, 56 seconds -

These videos are from the Introduction to **Agent Based Modeling course**, on **Complexity**, Explorer (complexityexplorer.org) taught ...

What a Model Is

What Is an Agent-Based Model

Agent-Based Modeling

Complexity and agent-based modelling - Complexity and agent-based modelling by SPHSU University of Glasgow 386 views 1 year ago 1 hour, 2 minutes - Agent,-**based modelling**, is a **computational**, method that can simulate **social**, processes by replicating behaviours of individuals in ...

Introduction

A Model Is a Representation of a Target System and Not the Target System

The Double Pendulum

Agent-Based Models

Autonomy

Model of the English Housing Market

Why Is Abm Good for Modeling Complexity

Agent-Based Model

Agent-Based Modeling

How You Validate an Agent Based Model

Validation

Modeling a Labor Market System

How Do You Incorporate Quality of Data into the Abm Process

Mechanisms That Go into the Agent-Based Model

Social Simulation Conference 2022, "Inverse Generative Social Science", by Joshua M. Epstein -

Social Simulation Conference 2022, "Inverse Generative Social Science", by Joshua M. Epstein by

Flaminio Squazzoni 202 views 1 year ago 1 hour, 3 minutes - Social Simulation Conference 2022,

12 September 2022, **University**, of Milan, "Inverse **Generative Social Science**,: From Intelligent ...

The Future of Generative AI Agents with Joon Sung Park - The Future of Generative AI Agents with

Joon Sung Park by Foundation Capital 5,472 views 1 month ago 48 minutes - Welcome to "AI in the

Real World"! I'm your host, Joanne Chen, a General Partner at Foundation Capital, where I work

closely with ...

Introduction

The impact of LLMs on agent capabilities

Tool use and simulations are the two main focuses of agent R&D

Multi-agent systems and their applications

LLMs represent a new paradigm for agent design

Multimodal models promise step-change improvements in agent performance

Unsolved challenges: grounding, representativeness, and scalability

Soft-edged problems are better bets for AI builders

The future of transformer architectures

Why agents need to solve real user needs

We haven't yet found the "killer app" for LLMs

Classic product principles still apply when building with LLMs

"What's wrong with LLMs and what we should be building instead" - Tom Dietterich - #VSCF2023 -

"What's wrong with LLMs and what we should be building instead" - Tom Dietterich - #VSCF2023

by valgrAI 141,260 views 8 months ago 49 minutes - Thomas G. Dietterich is emeritus professor of

computer science, at Oregon State **University**,. He is one of the pioneers of the field of ...

Introduction to large language models and their capabilities

Problems with large language models: Incorrect and contradictory answers

Problems with large language models: Dangerous and socially unacceptable answers

Problems with large language models: Expensive to train and lack of updateability

Problems with large language models: Lack of attribution and poor non-linguistic knowledge

Benefits and limitations of retrieval augmentation

Challenges of attribution and data poisoning

Strategies to improve consistency in model answers

Reducing dangerous and socially inappropriate outputs

Learning and applying non-linguistic knowledge

Building modular systems to integrate reasoning and planning

Large language models have surprising capabilities but lack knowledge bases.

Building modular systems that separate linguistic skill from world knowledge is important.

Questions and discussions on cognitive architectures and addressing the issue of miscalibration.

Overcoming flaws in large language models through prompting engineering and verification.

Harvard CS50 (2023) – Full Computer Science University Course - Harvard CS50 (2023) – Full

Computer Science University Course by freeCodeCamp.org 2,458,336 views 4 months ago 25 hours

- Learn the basics of **computer science**, from Harvard **University**,. This is CS50, an introduction to the intellectual enterprises of ...

Lecture 0 - Scratch

Lecture 1 - C

Lecture 2 - Arrays

Lecture 3 - Algorithms

Lecture 4 - Memory

Lecture 5 - Data Structures

Lecture 6 - Python

Lecture 7 - SQL

Lecture 8 - HTML, CSS, JavaScript

Lecture 9 - Flask

Lecture 10 - Emoji

Cybersecurity

WSDL 2024: Plenary Talk by Prof. Sergey Levine - WSDL 2024: Plenary Talk by Prof. Sergey Levine by Winter School on Deep Learning 710 views Streamed 1 month ago 1 hour, 22 minutes - Talk on: Reinforcement Learning with Large datasets : A Path to Resourceful Autonomous **Agents**, Meet Prof. Sergey Levine, a ...

The Turing Lectures: The future of generative AI - The Turing Lectures: The future of generative AI by The Alan Turing Institute 471,637 views 3 months ago 1 hour, 37 minutes - With their ability to generate human-like language and complete a variety of tasks, **generative**, AI has the potential to revolutionise ...

IQ TEST - IQ TEST by Mira 004 27,505,635 views 10 months ago 29 seconds – play Short
Elon Musk Laughs at the Idea of Getting a PhD... and Explains How to Actually Be Useful! - Elon Musk Laughs at the Idea of Getting a PhD... and Explains How to Actually Be Useful! by Inspire Greatness 7,169,998 views 1 year ago 39 seconds – play Short

that you're trying to create

makes a big difference

affects a vast amount of people

From the MIT GenAI Summit: A Crash Course in Generative AI - From the MIT GenAI Summit: A Crash Course in Generative AI by MIT AI ML Club 101,073 views 1 year ago 20 minutes - Join Ellie Pavlick, Brown **University**, Professor and Google AI Researcher, for a crash **course**, on **generative**, AI. Presented at the ...

How do generative language models work?

What are the opportunities?

Risks of Generative AI

Summary

Day in My Life as a Quantum Computing Engineer! - Day in My Life as a Quantum Computing Engineer! by Anastasia Marchenkova 368,658 views 1 year ago 46 seconds – play Short - Every day is different so this is just ONE day! This was a no meeting day so I ended up being able to do a lot of heads down work.

Senior Programmers vs Junior Developers #shorts - Senior Programmers vs Junior Developers #shorts by Miso Tech (Michael Song) 18,034,592 views 1 year ago 34 seconds – play Short - If you're new to the channel: welcome ~ I'm Michael and I'm a rising senior at Carnegie Mellon **University studying**, Information ...

Agent-Based Modeling: Introduction to Replication - Agent-Based Modeling: Introduction to Replication by Complexity Explorer 1,466 views 5 years ago 4 minutes, 49 seconds - These videos are from the Introduction to **Agent Based Modeling course**, on **Complexity**, Explorer (complexityexplorer.org) taught ...

Agent-Based Modeling: Social Network Models - Agent-Based Modeling: Social Network Models by Complexity Explorer 12,217 views 5 years ago 6 minutes, 24 seconds - These videos are from the Introduction to **Agent Based Modeling course**, on **Complexity**, Explorer (complexityexplorer.org) taught ...

Viral Marketing

Inferring Social Networks

Decision Support Systems

Agent-Based Modeling: Data and Computational Parallelism - Agent-Based Modeling: Data and Computational Parallelism by Complexity Explorer 1,182 views 5 years ago 11 minutes, 8 seconds - These videos are from the Introduction to **Agent Based Modeling course**, on **Complexity**, Explorer

(complexityexplorer.org) taught ...

Connection Machine

Termites Model

Synthetic Parallelism

Agent-Based Modeling: Teaser Video 2017 - Agent-Based Modeling: Teaser Video 2017 by Complexity Explorer 27,289 views 6 years ago 4 minutes, 10 seconds - These videos are from the Introduction to **Agent Based Modeling course**, on **Complexity**, Explorer (complexityexplorer.org) taught ...

Introduction

Modern Forms

Common Core

AgentBased Modeling

Professor Joshua Epstein introduces a new course called Introduction to Agent-Based Modeling - Professor Joshua Epstein introduces a new course called Introduction to Agent-Based Modeling by NYU School of Global Public Health 1,156 views 6 years ago 1 minute, 33 seconds - Professor of Epidemiology Joshua Epstein introduces a new Public Health **course**, called "Introduction to **Agent,-Based Modeling**," ...

UCCSS Hilbert ABM1: Agent-based Modeling Introduction - UCCSS Hilbert ABM1: Agent-based Modeling Introduction by Martin Hilbert 1,238 views 5 years ago 2 hours, 38 minutes - This lecture is part of the **University**, of California wide online **course**, on **Computational Social Science**, (UCCSS), produced with ...

Computational Scientific Methods

Today's questions

Modeling as Mapping

Richard Feynman 1918 - 1988

Computer models

Virtual models of Reality

Extension of Schelling's segregation model

Agent-Based Modeling: Causal State Modeling - Agent-Based Modeling: Causal State Modeling by Complexity Explorer 1,988 views 5 years ago 7 minutes, 56 seconds - These videos are from the Introduction to **Agent Based Modeling course**, on **Complexity**, Explorer (complexityexplorer.org) taught ...

Introduction

Machine Learning in AgentBased Modeling

New Big Data

Heterogeneity

Machine Learning

Causal State Models

Agent-Based Modelling in Biology and Social Science - Complex Systems Simulation and Artificial Life - Agent-Based Modelling in Biology and Social Science - Complex Systems Simulation and Artificial Life by Chris Marriott - Computer Science 345 views 11 months ago 30 minutes - In this video I introduce how **agent,-based modelling**, is used in **scientific**, fields to test hypotheses that might otherwise be difficult to ...

Joshua Epstein - IGSSS - Raw and Live - 2021 - Joshua Epstein - IGSSS - Raw and Live - 2021 by CSSSA 110 views 2 years ago 47 minutes - Joshua Epstein - Goals of iGSS at Inverse **Generative Social Science**, IGSS Workshop, Washington, DC; June 8-10th, 2021 ...

Intro

Welcome!

Explain vs. Predict

Distinct from Macroeconomic Regression

May Be Many Ways to Grow It: Enter AI . The definition (1999, 2006, 2016) is not claiming uniqueness. . There may be many ways to grow it many agent specifications that suffice to generate the target be it segregation or the ancient Anasazi, or other phenomena

The Set of Generators

Structural Stability

Too Many Answers Actually. Unilluminating metrics

Comprehensibility Constraints

Comprehensibility vs Accuracy

Webinar: Introduction to agent-based modelling for social scientists - Webinar: Introduction to agent-based modelling for social scientists by UK DATA SERVICE 1,608 views 2 years ago 1 hour, 1

minute - Social science, seeks to understand and predict patterns involving human behaviour, many of which are large-scale and **complex**,.

Agent Based Modeling for Social Sciences

Prosthetic Leg

Wind Tunnel

Mentee Quiz

Open Systems

Examples

What Is an Agent

Multi-Agent Systems

Agent-Based Models

What in Theory Would You Use an Agent-Based Model To Explore

Media Discourse

Simulated World

Agents Are Unique and Behave Uniquely

The Difference between States and Variables

Rules

Sample Models

Netlogo

Infection and Recovery Rates

Why Should You Even Worry about an Agent-Based Model

Why You Should Use an Agent-Based Model

Parameter Sweeps

Outcome Probabilities

Pros of Agent-Based Modeling

Cons

Platforms

Summary

Cellular Automata

Tips on How Best To Report Results of Agent-Based Models

Info Tab

Any Recommendations for Resources in Python To Do Agent-Based Modeling

Code Examples

Evaluation

Complexity science and computational modelling | Max Stauffer | EAGxNetherlands 2018 - Complexity science and computational modelling | Max Stauffer | EAGxNetherlands 2018 by Centre for Effective Altruism 376 views 5 years ago 54 minutes - The world is very complicated, and so is improving it. Some things are possible to **research**, directly, but there isn't sufficient data to ...

Introduction

Who am I

Dynamic systems

Problemsolving

Map and territory

Summary

Complexity science

Microlevel dynamics

Selforganization in patterns

Selforganization in birds

Nonlinear effects

Power laws

Multi equilibria dynamics

Emergence

Stochasticity

Complex systems

Complex systems examples

Traditional research

Computational modelling

Modelling process

Modelling steps

Why use computers

The problem

Agentbased models

Networkbased models

System dynamics

Models

Applications

Limitations

Risk modelling

Command our city

Conclusion

Agent-Based Modeling: Stochasticity, Invariant / Variant, and Path Dependency - Agent-Based Modeling: Stochasticity, Invariant / Variant, and Path Dependency by Complexity Explorer 1,589 views 5 years ago 6 minutes, 36 seconds - These videos are from the Introduction to **Agent Based Modeling course**, on **Complexity**, Explorer (complexityexplorer.org) taught ...

Stochasticity and validation

Variant and Invariant Results

Path Dependency

Benefits and Issues of Validation

UCCSS_Smaldino_UCM: Introduction to (agent-based) modeling - UCCSS_Smaldino_UCM: Introduction to (agent-based) modeling by Martin Hilbert 1,552 views 6 years ago 22 minutes - This lecture is part of the **University**, of California wide online **course**, on **Computational Social Science**, (UCCSS), produced with ...

Introduction

No single best decomposition

Models

Why use models

Example model

Assumptions

Representation

Summary

Josh Epstein - "Frontiers of Computational Social Science" (C4 Public Lectures) - Josh Epstein - "Frontiers of Computational Social Science" (C4 Public Lectures) by Santa Fe Institute 2,367 views 5 years ago 1 hour, 16 minutes - Dr. Joshua Epstein is a pioneer of Agent_Based **Modeling**., in which artificial societies of software people interact on simulated ...

Explicit Models

Vaccination

Herd Immunity

Same Goes for Instigation of Good Epidemics Smoking cessation

Smallpox Model

Simplified Progression of Smallpox

Base Case Run

Calibration to Data and Policy

Grow A Civilization

Longhouse Valley

The Mystery

Overall Plan: Tree Ring Circus

Sample Rules for Artificial Anasazi

Published Fit

Generative Explanation

Artificial Anasazi Involved A Natural Environment

Plume-Agent LA Model

GSAM: 6.5 Billion Agents

Homo Sapiens

Motivation

Associative Fear Conditioning Acquisition Phase

Perils of Fitness

Observational Fear Conditioning

Emotion

Neural Drivers of Conformity
Network Weights Agents experience a weed sum of the affective and
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Keyboard shortcuts
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Subtitles and closed captions
Spherical videos

Virtual Worlds Of Precision Computer Based Simulations In Sciences And Social Sciences Methoden

Virtual Simulations as Preparation for Lab Exercises: Assessing Learning of Key Laboratory Skills - Virtual Simulations as Preparation for Lab Exercises: Assessing Learning of Key Laboratory Skills by ScienceVio 1,004 views 7 years ago 2 minutes, 12 seconds - Objective To investigate if a **virtual**, laboratory **simulation**, (vLAB) could be used to replace a face to face tutorial (demonstration) to ... Demo Simulation | Virtual Lab - Demo Simulation | Virtual Lab by Labster 2,731 views 1 year ago 29 seconds - In this demo **virtual**, lab **simulation**,, you will help Dr. One identify a fundamental biological molecule. During your mission, you will ... Labster & MIT Virtual Lab Simulations - Labster & MIT Virtual Lab Simulations by Labster 2,277 views 8 years ago 50 seconds - Join cutting edge research at MIT and design a biological circuit that can sense and destroy cancer cells. The laboratory ... Gateway cloning technique
Gibson assembly technique
Mathematical simulations
Immersive 3D animations
Bacterial selection
Virtual tablet with quiz questions
Available on computer and VR goggles
Enabling labs and simulations across virtual platforms - Enabling labs and simulations across virtual platforms by VWBPE 49 views Streamed 3 years ago 49 minutes - Speakers: newreality explorer (SL); atavarel (SL) For educators in Engineering and **Sciences**,, instruction is highly dependent on ... Enabling Labs and Simulation across Virtual Platforms
Complex Simulations
Collaboration
Add Buttons
Confusion Button
Ert Concierge
What Does the Technology of the Second Life Engine Slash Viewer Add to Your Pre-Existing Set of Technologies for Your Combined Vision
Doing Research in Virtual Worlds - Doing Research in Virtual Worlds by Science Magazine 905 views 15 years ago 5 minutes, 29 seconds - Scientists, are increasingly doing research on human behavior *inside* **virtual worlds**,, and that raises some interesting ... Virtual Worlds Overview Video for a Science Review - Virtual Worlds Overview Video for a Science Review by Eric Hackathorn 496 views 14 years ago 9 minutes, 21 seconds - A short video highlighting the potential power of **virtual worlds**, for the government. Version 1.0 -- I wish YouTube let you *update* ... Second Life
Vision for Virtual Worlds
Augmented Reality
Elon Musk Laughs at the Idea of Getting a PhD... and Explains How to Actually Be Useful! - Elon Musk Laughs at the Idea of Getting a PhD... and Explains How to Actually Be Useful! by Inspire Greatness 7,171,866 views 1 year ago 39 seconds – play Short
that you're trying to create
makes a big difference
affects a vast amount of people
how to download Virtual labs simulator - how to download Virtual labs simulator by Computer_techie 20,099 views 3 years ago 3 minutes, 28 seconds - link for **virtual**, labs: <http://vlabs.iitkgp.ernet.in/coa/> link to download java development kit ... CompBioMed Virtual Humans Film - CompBioMed Virtual Humans Film by Computational Biomed-

cine 17,868 views 6 years ago 6 minutes, 21 seconds - The power of supercomputers is revealed in this film. Rendered on MareNostrum supercomputer at Barcelona Supercomputing ...

Introduction to Simulation: System Modeling and Simulation - Introduction to Simulation: System Modeling and Simulation by ItsNowOrNever 268,285 views 6 years ago 35 minutes - This video introduces the concept of **simulation**, and the entire purpose behind it. I refer to the book "Discrete event system ...

Introduction

What is Simulation

When is Simulation useful

When is Simulation not useful

System Definition

Discrete Systems

Continuous Systems

Models

Problem Formation

Conceptualization

Collecting Data

Validation

Experimental Design

Documenting

Implementation

virtual laboratory application chemistry - virtual laboratory application chemistry by ahmed mohamad 28,961 views 4 years ago 3 minutes, 41 seconds - virtual, lab application is mostly used for doing experiment by students themselves. It can also show environment that we can not ...

What is Monte Carlo? - What is Monte Carlo? by Leios Labs 218,497 views 7 years ago 3 minutes, 36 seconds - Here's a video describing programming magic: Monte Carlo integration! It's a super cool algorithm that is used all the time (in ...

What Is an Integral

Integral

Power of the Monte Carlo Algorithm

CHEMIST - Virtual Chem Lab - CHEMIST - Virtual Chem Lab by RahulSTG5 40,403 views 3 years ago 13 minutes, 11 seconds - CHEMIST - **Virtual**, Chem Lab Subscribe to my channel for more **science**, videos Download (1):- ...

Course Spotlight: Modeling and Simulation of Complex Systems - Course Spotlight: Modeling and Simulation of Complex Systems by Johns Hopkins Engineering for Professionals 4,482 views 7 years ago 1 minute, 31 seconds - Instructor Mike Weisman mentors students throughout this hands-on and practical lab course in which they have the opportunity to ...

Praxilabs The Virtual Labs of Physics, Chemistry and Biology - Praxilabs The Virtual Labs of Physics, Chemistry and Biology by PraxiLabs 38,163 views 5 years ago 2 minutes, 18 seconds - PraxiLabs is a 3D **virtual**, labs that contains a 3D **simulations**, for tens of **science**, experiments, including the experiments of physics, ...

Labster Biology Virtual Labs - Labster Biology Virtual Labs by Labster 32,271 views 3 years ago 2 minutes, 8 seconds - Labster's Biology **simulations**, help students master the core concepts in biology in an interactive, visual, and engaging way. Watch ...

Intro

Overview

Simulations

The Computer Simulation of People - The Computer Simulation of People by Microsoft Research 1,330 views 7 years ago 51 minutes - The **computer simulation**, of people is a grand challenge problem with potentially profound impact across many disciplines. In the ...

Introduction

Motion Capture

Facial Modeling

Facial Tissue Modeling

Muscle Modeling

Neural Network

Biomechanics

Artificial Life

Train Station

Arcade

Planning

Applications

Future Challenges

3 Websites for Science Simulations for Teachers - 3 Websites for Science Simulations for Teachers by digitidea 4,071 views 7 months ago 9 minutes, 30 seconds - 3 Websites for **Science Simulations**, for Teachers In this video, i will show you where to get **Simulations**, of **Science**, subjects for free ... Science Principles Virtual Labs - Labster - Science Principles Virtual Labs - Labster by Labster 11,504 views 4 years ago 2 minutes, 14 seconds - Labster's Principles **simulations**, cover the most essential concepts in biology, chemistry and physics. Ideal for introductory and ...

Chemistry Simulations

Biology Simulations

Physics Simulations

International Baccalaureate

Next Generation Science Standards

Experimental Design | Virtual Lab - Experimental Design | Virtual Lab by Labster 3,458 views 1 year ago 30 seconds - Work as a pharmaceutical detective to identify the link between a new drug and a recent epidemic. Use the **scientific**, method to ...

The Scientific Method | Virtual Lab - The Scientific Method | Virtual Lab by Labster 1,332 views 1 year ago 37 seconds - Work as a pharmaceutical detective to identify the link between a new drug and a recent epidemic. Use the **scientific**, method to ...

The Virtual Lab - The Virtual Lab by Microsoft Research 1,842 views 7 years ago 1 hour, 15 minutes - Crowdsourcing sites like Amazon's Mechanical Turk are increasingly being used by researchers to construct '**virtual**, labs' in which ...

Microsoft Research

Can You Study An Army in a Lab?

Outline

Music Lab Salganik, Dodds, Watts (Science, 2006)

Some Challenges

FINANCIAL INCENTIVES AND PERFORMANCE Mason and Watts (2009)

QUANTITY VS. QUALITY OF WORK

Perceived Value of Work Shows Anchoring Effect

Conclusions

Fast, Cheap, And Relatively Under Control

Networked Experiments Online

Solving the Synchronicity Problem Online

Cooperation on Static Networks Suri and Watts (2011)

Why Should Networks Affect Cooperation?

Networks ($N = 24$, $k = 6$)

Why No Network Effects?

Testing For Conditional Cooperation

Effect of Seed Nodes

Testing for Contagion

From Static To Dynamic Networks

Cooperation on Dynamic Networks Wang, Suri, Watts (2012)

Information View

Large effect for surprising low rate

Rate increases encounter diminishing returns

Overall: rewiring matters, but substrate doesn't

Why the large end-game effect?

When Do Networks Matter?

Virtual Labs of The Future

Introductory Lab | Virtual Lab - Introductory Lab | Virtual Lab by Labster 591 views 1 year ago 45 seconds - Learn about lab safety, **scientific**, methods, diffusion and osmosis, acids, bases and how to prepare buffers. About Labster Inc.

Social Simulation - Social Simulation by USC ICT 2,276 views 7 years ago 2 minutes, 51 seconds - ICT's **social simulation**, research models and simulates human **social**, interaction, at the group level. Our efforts aim to benefit ...

Introduction

Challenges

Software

Labster - Chemistry Virtual Labs - Labster - Chemistry Virtual Labs by Labster 13,425 views 4 years ago 2 minutes, 40 seconds - Engage your students with **science**,. Get started with **virtual**, labs for chemistry today. <https://get.labster.com/ptc>.

Modeling & Simulation 101 - Modeling & Simulation 101 by IITSEC 94,564 views 14 years ago 6 minutes, 18 seconds - The National Training and **Simulation**, Association (NTSA), is dedicated to sparking an interest in students for the modeling and ...

Labster's Science Platform: now available for more languages and devices - Labster's Science Platform: now available for more languages and devices by Labster 310 views 1 year ago 1 minute, 30 seconds - Labster is continuing to expand and improve students' access to our STEM education tools. Starting in the summer and fall of ...

Evolution: Journey of the canids | Virtual Lab - Evolution: Journey of the canids | Virtual Lab by Labster 89 views 1 year ago 44 seconds - Follow the million-year evolutionary journey of a canid colony as you create random mutations in their DNA. About Labster Inc.

Introduction to Virtual Lab and the Materials Square platform for cloud-based atomistic simulations! - Introduction to Virtual Lab and the Materials Square platform for cloud-based atomistic simulations! by Gabriele Moggi 141 views 1 year ago 10 minutes, 43 seconds - Furthermore, feel free to also join our interactive communities on both LinkedIn and Facebook, dedicated to general ...

Intro

Virtual Lab Overview of Virtual Lab

Virtual Lab Overview of the Materials Square Platform

Typical Applications in Industry

Virtual Lab Subscription-based Payment Model

Virtual Lab Overview of the Katalitic platform

Virtual Lab Outreach and Education/Training initiatives

Computer Science Unveiled: Virtual Reality Lab - Computer Science Unveiled: Virtual Reality Lab by UCL Outreach 2,947 views 10 years ago 3 minutes, 18 seconds - For more information see here <http://www.cs.ucl.ac.uk>.

Virtual Reality Lab

Motion Capture Technology

The Bystander Effect

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Deep Complexity and the Social Sciences

This title will become the key reference in the field of complex economic systems. It is a thorough and systematic treatment of complexity.

Capitalism and Democracy

ÔThis is a well-structured book on a complex question that has been relevant for centuries leading up to the actual crisis in the EU and the international financial markets. The book offers a rich picture of empirics, and discusses, explains and criticizes a number of classical theories in the field (Marx, Schumpeter, Polanyi), as well as modern theories (Greif, North et al., Acemoglu, Perez and others). The familiar topics of property rights, technological development and long waves are presented in an illuminating way, whereas a number of new topics including open and limited access societies, hyper globalization, and the European Union are viewed in a broad perspective of Ôpolitical economyÔ and Ôinstitutional economicsÔ. The limitations of neoclassical economics are well presented as are the benefits (and costs) of political economy.Õ Æ John Groenewegen, Delft University of Technology, the Netherlands ÔThis book is a very coherent and up-to-date work. It presents a clear and sophisticated view on the role of economic institutions and aspects of political economy in the process of modern economic growth. The author demonstrates significant originality in combining insights from different sub-fields to successfully understand economic growth and the distribution of income

in the economy. It will be a rich source of ideas for anyone interested in how the modern world, and various countries and regions in particular, attained high levels of economic welfare. Æ Sjak Smulders, Tilburg University, the Netherlands Capitalism is driven by technological revolutions, leading to alternating periods of regulation and deregulation in leading economies. Technologically backward countries face a different situation as they have to catch up with the leaders. Against this backdrop, Theo van de Klundert examines the relationship between capitalism and democracy, combining economic theory and historical description to analyse long-run economic development. Emphasis is placed on the interrelation between economic and political power, and a robust state-of-the-art overview of today's political economy is presented. The author addresses two fundamental questions raised in the analysis of the relationship between capitalism and democracy. Firstly, he explores why capitalism in leading economies is characterized by alternating periods of regulation and deregulation, and secondly, whether developing countries can opt for different types of capitalism once the potential for catching up with developed countries has expired. The consequences of a shift in the balance of power in the global economy are also considered in detail. Broad in scope and employing various methodological approaches, this book will prove a fascinating read for academics, students and researchers in the fields of economics and heterodox economics.

Time, Space and Capital

In this challenging book, the authors demonstrate that economists tend to misunderstand capital. Frank Knight was an exception, as he argued that because all resources are more or less durable and have uncertain future uses they can consequently be classed as capital. Thus, capital rather than labor is the real source of creativity, innovation, and accumulation. But capital is also a phenomenon in time and in space. Offering a new and path-breaking theory, they show how durable capital with large spatial domains — infrastructural capital such as institutions, public knowledge, and networks — can help explain the long-term development of cities and nations.

Law and Economics from an Evolutionary Perspective

Law and economics are interdependent. Using a historical case analysis approach, this book demonstrates how the legal process relates to and is affected by economic circumstances. Glen Atkinson and Stephen P. Paschall examine this co-evolution in the context of the economic development that occurred in the nineteenth and early twentieth centuries as well as the impact of the law on that development. Specifically, the authors explore the development of a national market, the transformation of the corporation, and the conflict between state and federal control over businesses. Their focus on dynamic, integrated systems presents an alternative to mainstream law and economics.

Creative Industries and Economic Evolution

This insightful book offers a new way of looking at the arts, culture and the creative industries from the perspective of evolutionary economics. The creative industries are key drivers of modern economies. While economic analysis has traditionally advanced a market-failure model of arts and culture, this book argues for an evolutionary market dynamics or innovation-based approach. Jason Potts explores theoretical and conceptual aspects of an evolutionary economic approach to the study of the creative economy. Topics include creative businesses and labour markets, social networks, innovation processes and systems, institutions, and the role of creative industries in market dynamics and economic growth.

Institutional Variety in East Asia

This illuminating book broadly addresses the emerging field of 'diversity of Capitalism' from a comparative institutional approach. It explores the varied patterns for achieving coordination in different economic systems, applying them specifically to China, Japan and South Korea. These countries are of particular interest due to the fact that they are often considered to have developed their own peculiar blend of models of capitalism. The expert contributors take a common institutional approach, focusing on institutions at the macro level. They present case studies to demonstrate the diversity of institutional patterns at the advent of the 21st century, both within the East Asian region and elsewhere. Examples of stability within existing institutions are illustrated alongside examples of comprehensive institutional change. Underpinning the case studies are a set of theoretical and empirical challenges for researchers concerned with national institutional settings, path dependence and endogenous dynamics.

How Markets Work and Fail, and What to Make of Them

In this thought-provoking book, Bart Nooteboom offers a radical critique of the principal intellectual and moral assumptions underlying economic science, unravelling the notion of markets: how they work and fail, and how they may be redirected to better

Foundations of Economic Evolution

This book is an ambitious intellectual enterprise to build a naturalistic foundation for economics, with amazingly vast knowledge of physical, biological, social sciences and philosophy. Readers will discover that approaches and insights emergent in institutional studies, (social)-neuroscience, network theory, ecological economics, bio-culture dualistic evolution, etc. are persuasively placed in a grand unified frame. It is written in a good Hayekian tradition. I recommend this book particularly to young readers who aspire to go beyond a narrowly specified discipline in the age of expanding communicability of knowledge and ideas.

— Masahiko Aoki, Stanford University, US

Carsten Herrmann-Pillath's new book is an in-depth application of natural philosophy to economics that draws up an entirely new framework for economic analysis. It offers path-breaking insights on the interactions between human economic activity and nature and outlines a convincing solution to the long-standing reductionism controversy. A must-read for everyone interested in the philosophical underpinnings of economics as a science.

— Ulrich Witt, Max Planck Institute of Economics, Jena, Germany

Big picture philosophy of economics drifted into a dull cul-de-sac as it became obsessively focused on falsifiability and rationality. In this book Carsten Herrmann-Pillath pushes the field back onto the open highway by locating economics in the larger frameworks of metaphysics, evolutionary dynamics and information theory. This is large-scale, ambitious synthesis of ideas of the kind we expect from time to time to see devoted to physics and biology. Why should economics merit anything less? But of course this kind of intellectual tapestry must await the appearance of an unusually devoted scholar with special patience and eccentric independence from the pressure for quick returns that characterizes academic life. In the person of Herrmann-Pillath this scholar has appeared. No one who wants to examine economics whole and in its richest context should miss his virtuoso performance in this book.

— Don Ross, University of Cape Town, South Africa and Georgia State University, US

Herrmann-Pillath's work attempts to bring to bear upon the discipline of economics perspectives from other discourses which have been burgeoning recently — namely, thermodynamics, evolutionary biology, and semiotics, aiming at a consilience contextualized by economic activity and problems. This marks the work as a contemporary example of natural philosophy, which is now at the doorstep of a revival. The overall perspective is that human economic activity is an aspect of the ecology of the earth's surface, viewing it as an evolving physical system mediated through distributed mentality as expressed in technology evolution. Knowledge is taken to be physical with a performative function, as in Peirce's pragmatism. Thus, the social meanings of expectations, prices, and credit are found to be rooted in energy flows. The work draws its foundation from Hegel and C.S. Peirce and its immediate guidance from Hayek, Veblen and Georescu-Roegen. The author generates an energetic theory of economic growth, guided by Odum's maximum power principle. Economic discourse itself is reworked in the final chapter, in light of the examinations of the previous chapters, naturalizing economics within an extremely powerful contemporary framework.

— Stanley N. Salthe, Binghamton University, US

An Oscar-winning performance in the theatre of consilience. It's hard to know which to praise first: Carsten Herrmann-Pillath's humility or his ambition. He says his book is not a great intellectual feat because he pursues the humble task of putting together the ideas of others. When he finally gets to economics he tries to be as simple as possible and to conceive of economics in terms of the basics, at undergraduate level, so to say. On the other hand, the scale of his ambition is to rethink the foundations of economics from first principles, while, at the same time, holding a running dialogue between contemporary sciences and classic philosophy. He's much too modest, of course, because Foundations is a major achievement, but his modesty points to what makes it such a powerful treatise: the book is not about his preferences or prejudices; it is a scientific approach that aims at establishing truthful propositions about reality. That is much harder to achieve than grand theories or complicated mathematics, because it amounts to a new modern synthesis of the field — an achievement on a par with Julian Huxley's, whose own modern synthesis of evolutionary theories in the 1940s allowed for the explosive growth of the biosciences over the next decades. The structure of the book is simple enough, providing a framework for the naturalistic turn in economics. Starting from material existence, causation and evolution, Herrmann-Pillath takes us through four fundamental concepts — individuals, networks, institutions and technology — before coming finally to the realm of economics proper, i.e. markets. However, Herrmann-Pillath believes that the foundations of

economics cannot be found within economics – but only in dialogue with other sciences, or what he calls the ‘theatre of consilience.’ It’s a theatre in which various characters come and go, where dialogue ebbs and flows, conflicts arise and are resolved, and where individual actions can be seen as concepts as, leading to higher levels of meaning as the plot unfolds. The magic of theatre, of course, is that the point of intelligibility, where the characters, actions and narrative resolve into meaningfulness, is projected out of the drama itself, into the spectator. That’s you, dear reader. So it is with economics as a discipline. Economics is a player in a much larger performance about what constitutes knowledge, and how we know that. It is also a player in the economy it seeks to explain. To understand why money, firms, growth, prices, markets and other staples of economic thought emerge and function the way they do, it is necessary situate the analysis beyond economics (and the economy), and to engage with developments across the human, evolutionary and complexity sciences. This is what Herrmann-Pillath does, analyzing a breathtaking range of illuminating and sometimes challenging work along the way. We are treated to new ideas about the externalized brain, the evolution of knowledge in the Earth System (i.e. not just among humans), the role of signs and performativity in these processes, as well as that of energetic transformations. But Herrmann-Pillath is not satisfied with the ‘modest’ task of bringing the best of modern scientific thought to bear on economic concepts and performances; he really does harbor a deeper purpose. The clue is in his apparently quixotic desire to hang on to philosophical insights associated with pre-evolutionary thinkers like Aristotle and Hegel, and his apparently eccentric desire to place the semiotic philosophy of C.S. Pierce at center stage. But the patient observer will see that he is not seeking to change the facts by imposing idealist notions on them after the event. Instead, he is arguing for a change in the way we perform ourselves in the face of these facts. He is looking for a modern-day equivalent of Confucius or Socrates: one who can imagine values and beliefs that ‘define the human species in a new way.’ For those who have eyes to see, as the drama unfolds, it may be that we have found such a figure in Carsten Herrmann-Pillath himself, modesty, ambition and all. This is ‘Cultural Science’ as it should be done. Ð John Hartley, Curtin University, Australia and Cardiff University, UK

An Autecological Theory of the Firm and its Environment

The process of firm-level adaptation and survival have historically been of great interest to researchers of firms. However, these researchers have previously been denied an ecological framework within which to study the processes through which individual firms respond to and indeed, modify their individual environments. This book remedies this situation, providing the first comprehensive introduction to organisational autecology, or, the study of individual firms and the environments they interact with and typically modify to ensure their survival. In addition to establishing the theoretical and philosophical foundations of organisational autecology, the empirical application of this new approach is demonstrated and its future application to the domain of organisational studies is contemplated.

Understanding the Blockchain Economy

Blockchains are the distributed ledger technology that powers Bitcoin and other cryptocurrencies. But blockchains can be used for more than the transfer of tokens – they are a significant new economic infrastructure. This book offers the first scholarly analysis of the economic nature of blockchains and the shape of the blockchain economy. By applying the institutional economics of Ronald Coase and Oliver Williamson, this book shows how blockchains are poised to reshape the nature of firms, governments, markets, and civil society.

Bulletin of the Atomic Scientists

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

Integrated Approaches to Health: Concepts and Experiences in Framing, Integration and Evaluation of One Health and EcoHealth

Integrated approaches to health address health challenges arising from the intertwined spheres of humans, animals and ecosystems. This eBook is the product of an interdisciplinary effort to establish how One Health, EcoHealth and other integrated approaches to health are conceptualized, framed, implemented and evaluated today. It supplements the handbook for the evaluation of One Health, published by the COST Action “Network for Evaluation of One Health (NEOH)” with in depth reflections

on the theory behind integrated approaches to health and One Health more specifically, a brief version of the NEOH evaluation framework, a supplementary evaluation approach, and eight case studies in which the NEOH framework was applied. The eBook is intended for practitioners, researchers, evaluators as well as funders of integrated approaches to health and beyond. Without the outstanding support and leadership from the management committee, this work would not have been achieved. Our gratitude goes to Maria-Eleni Filippitzi (BE), Véronique Renault (BE), Nihad Fejzic (BA), Sabina Seric-Haracic (BA), Nenad Turk (HR), Relia Beck (HR), Luca Guardabassi (DK), Liza Rosenbaum Nielsen (DK), Flavie Goutard (FR), Vladimir Grosbois (FR), Brigitte Petersen (DE), Martin Hamer (DE), Elias Papadopoulos (GR), Ilias Chaligiannis (GR), Gábor Földvári (HU), Anthony Staines (IE), Helen O'Shea (IE), Shimon Harrus (IL), Gad Baneth (IL), Valeria Grieco (IT), Maurizio Aragrande (vice chair, IT), Jovita Mažeikienė (LT), Sandra Buttigieg (MT), Elaine Lautier (MT), Helmut Saatkamp (NL), Kitty Maassen (NL), Vlatko Ileski (MK), Mijalce Santa (MK), Merete Hofshagen (NO), Yngvild Wasteson (NO), Paulo Roriz (PT), Jorge Torgal (PT), Andrei D. Mihalca (RO), Razvan Chereches (RO), Dragan Milićević (RS), Sara Savic (RS), Joze Staric (SI), Mojca Jurišić (SI), Pedro Soto-Acosta (ES), Francisco Giménez Sánchez (ES), Ann Lindberg (SE), Josef Järhult (SE), Jakob Zinsstag (CH), Simon Rüegg (CH), Barbara Häsler (chair, UK), K. Marie McIntyre (UK), Martha Betson (UK), Marieta Braks (NL), Chinwe Ifejika Speranza (DE), Spela Sinigoj (SI), Martijn Bouwknegt (NL), Andras Lakos (HU) and their substitutes Merel Postma (BE), Semra Cavaljuga (BA), Estella Prukner Radovic (HR), Maria Vang Johansen (DK), Elena Boriani (DK), Ricarda Schmithausen (DE), Maryla Hanna Obszarski (DE), Smaragda Sotiraki (GR), Theofilos Papadopoulos (GR), Barry McMahon (IE), Massimo Canali (IT), Fabrizio Cecilian (IT), Daniele De Meneghi (IT), Dalia Jurevičiūtė (LT), Miroslav Radeski (MK), Toni Vekov (MK); Manuela Vilhena (PT), Carla Maia (PT), Alexandru Coman (RO), Branka Vidic (RS), Gospava Lazi (RS), Ksenija Sinigoj Gacnik (SI), Juan Gabriel Cegarra Navarro (ES), Asta Tvarijonaviciute (ES), José Cerón (ES), Helene Wahlström (SE), Karin Artursson (SE), Laura Cornelsen (UK), Jonathan Rushton (UK). We also would like to thank the 240+ researchers that have engaged with the COST Action throughout and participated actively. Our gratitude also goes to the Royal Veterinary College in London, who acted as a grant holder. Acknowledgments This publication is based upon work from COST Action (TD1404) "Network for Evaluation of One Health" (NEOH), supported by COST (European Cooperation in Science and Technology). COST (European Cooperation in Science and Technology) is a funding agency for research and innovation networks. Our Actions help connect research initiatives across Europe and enable scientists to grow their ideas by sharing them with their peers. This boosts their research, career and innovation. www.cost.eu

Introduction to Anticipation Studies

This book presents the theory of anticipation, and establishes anticipation of the future as a legitimate topic of research. It examines anticipatory behavior, i.e. a behavior that 'uses' the future in its actual decisional process. The book shows that anticipation violates neither the ontological order of time nor causation. It explores the question of how different kinds of systems anticipate, and examines the risks and uses of such anticipatory practices. The book first summarizes the research on anticipation conducted within a range of different disciplines, and describes the connection between the anticipatory point of view and futures studies. Following that, its chapters on Wholes, Time and Emergence, make explicit the ontological framework within which anticipation finds its place. It then goes on to discuss Systems, Complexity, and the Modeling Relation, and provides the scientific background supporting anticipation. It restricts formal technicalities to one chapter, and presents those technicalities twice, in formal and plain words to advance understanding. The final chapter shows that all the threads presented in the previous chapters naturally converge toward what has come to be called "Discipline of Anticipation"

Bulletin of the Atomic Scientists

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The Green Book

This new edition incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically robust approach to the appraisal and evaluation of public service projects before significant funds are committed. It is the first edition to have been aided by a consultation process in order to ensure the guidance is clearer and more closely tailored to suit the needs of users.

Dissertation Abstracts International

In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. *Communities in Action: Pathways to Health Equity* seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

Library & Information Science Abstracts

The Developmental Science of Adolescence: History Through Autobiography is the most authoritative account of the leading developmental scientists from around the world. Written by the scholars who shaped the history they are recounting, each chapter is an engaging and personal account of the past, present, and future direction of the field. No other reference work has this degree of authenticity in presenting the best developmental science of adolescence. The book includes a Foreword by Saths Cooper, President of the International Union of Psychological Science and autobiographical chapters by the following leading developmental scientists: Jeffrey Jensen Arnett, Robert Wm. Blum, Jeanne Brooks-Gunn, B. Bradford Brown, Marlis Buchmann, John Bynner, John Coleman, Rand D. Conger, James E. Côté, William Damon, Sanford M. Dornbusch, Nancy Eisenberg, Glen H. Elder, Jr., David P. Farrington, Helmut Fend, Andrew J. Fuligni, Frank F. Furstenberg, Beatrix A. Hamburg, Stephen F. Hamilton, Karen Hein, Klaus Hurrelmann, Richard Jessor, Daniel P. Keating, Reed W. Larson, Richard M. Lerner, Iris F. Litt, David Magnusson, Rolf Oerter, Daniel Offer, Augusto Palmonari, Anne C. Petersen, Lea Pulkkinen, Jean E. Rhodes, Linda M. Richter, Hans-Dieter Rösler, Michael Rutter, Ritch C. Savin-Williams, John Schulenberg, Lonnie R. Sherrod, Rainer K. Silbereisen, Judith G. Smetana, Margaret Beale Spencer, Laurence Steinberg, Elizabeth J. Susman, Richard E. Tremblay, Suman Verma, and Bruna Zani.

Communities in Action

Research and innovation in the life sciences is driving rapid growth in agriculture, biomedical science, information science and computing, energy, and other sectors of the U.S. economy. This economic activity, conceptually referred to as the bioeconomy, presents many opportunities to create jobs, improve the quality of life, and continue to drive economic growth. While the United States has been a leader in advancements in the biological sciences, other countries are also actively investing in and expanding their capabilities in this area. Maintaining competitiveness in the bioeconomy is key to

maintaining the economic health and security of the United States and other nations. Safeguarding the Bioeconomy evaluates preexisting and potential approaches for assessing the value of the bioeconomy and identifies intangible assets not sufficiently captured or that are missing from U.S. assessments. This study considers strategies for safeguarding and sustaining the economic activity driven by research and innovation in the life sciences. It also presents ideas for horizon scanning mechanisms to identify new technologies, markets, and data sources that have the potential to drive future development of the bioeconomy.

Caribbean Studies Newsletter

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

The Developmental Science of Adolescence

EBONY is the flagship magazine of Johnson Publishing. Founded in 1945 by John H. Johnson, it still maintains the highest global circulation of any African American-focused magazine.

Safeguarding the Bioeconomy

In this very short introduction, John Holland presents an introduction to the science of complexity. Using examples from biology and economics, he shows how complexity science models the behaviour of complex systems.

Bulletin of the Atomic Scientists

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Ebony

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

Complexity

Entrepreneurship is changing. Technology and social networks create a smaller world, but widen the opportunity horizon. Today's entrepreneurs build organisations and create value in entirely new ways and with entirely new tools. Rather than just exploit new ideas, innovative entrepreneurs design organisations to make sense of unlikely opportunities. The time has come to overhaul what we know about entrepreneurship and business models. Models of Opportunity links scholarly research on business models and organisational design to the reality of building entrepreneurial firms. It provides actionable advice based on a deeper understanding of how business models function and change. The six insights extend corporate strategy and entrepreneurship in a completely new direction. Case studies of innovative companies across industries demonstrate how visionary entrepreneurs achieve unexpected results. The insights, tools and cases, provide a fresh perspective on emerging trends in entrepreneurship, organisational change and high-growth firms.

Bulletin of the Atomic Scientists

In Complexity and Postmodernism, Paul Cilliers explores the idea of complexity in the light of contemporary perspectives from philosophy and science. Cilliers offers us a unique approach to understanding complexity and computational theory by integrating postmodern theory (like that of Derrida and Lyotard) into his discussion. Complexity and Postmodernism is an exciting and an original book that should be read by anyone interested in gaining a fresh understanding of complexity, postmodernism and connectionism.

Bulletin of the Atomic Scientists

This is an open access book. Meaning in Life (MIL) International Conference 2022, “Cultivating, Promoting, and Enhancing Meaning in Life Across Cultures and Life Span” will be held On 22-25 June 2022, Onsite & Live Online, at The Hong Kong Shue Yan University, Hong Kong, China. The concept of meaning in life (MIL) has recently earned a renaissance of interest. Although MIL has always been framed as significant for human survival, it has simultaneously been portrayed as chronically lacking in people’s lives. Furthermore, though MIL has been seen as a universal need, it is also highly idiosyncratic. These paradoxes of MIL being a basic necessity but also a rare commodity, and as being universal yet idiosyncratic, have driven the quest for meaning throughout history and across disciplines. The COVID-19 pandemic has not only been changing and impacting the ways we live, but also initiates us to quest more about what still makes life meaningful in this chaotic, challenging, and uncertain world? The increasing quest for MIL provides the driver for meaning-enhancing interventions and meaning-centered practices, but the efficacy of these interventions is influenced by cultural and developmental moderators. Thus, the MIL International Conference 2022 will focus on the theme of cultivating, promoting, and enhancing meaning in life across cultures and life span, and welcomes paper presentations that share and discuss empirical-based and evidence-based MIL research, practice, and applications.

Models of Opportunity

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

Complexity and Postmodernism

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

Proceedings of the Meaning in Life International Conference 2022 - Cultivating, Promoting, and Enhancing Meaning in Life Across Cultures and Life Span (MIL 2022)

This book examines issues and implications of digital and social media marketing for emerging markets. These markets necessitate substantial adaptations of developed theories and approaches employed in the Western world. The book investigates problems specific to emerging markets, while identifying new theoretical constructs and practical applications of digital marketing. It addresses topics such as electronic word of mouth (eWOM), demographic differences in digital marketing, mobile marketing, search engine advertising, among others. A radical increase in both temporal and geographical reach is empowering consumers to exert influence on brands, products, and services. Information and Communication Technologies (ICTs) and digital media are having a significant impact on the way people communicate and fulfil their socio-economic, emotional and material needs. These technologies are also being harnessed by businesses for various purposes including distribution and selling of goods, retailing of consumer services, customer relationship management, and influencing consumer behaviour by employing digital marketing practices. This book considers this, as it examines the practice and research related to digital and social media marketing.

Bulletin of the Atomic Scientists

A practical framework for thinking about the future... and an exploration of 'future consciousness' and how to develop it

Bulletin of the Atomic Scientists

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Digital and Social Media Marketing

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Three Horizons

Bulletin of the Atomic Scientists

[Agent Based Computational Modelling Applications In Demography Social Economic And Environmental Sciences Contributions To Economics](#)

Agent Based Modelling and Application in the Social Sciences - Agent Based Modelling and Application in the Social Sciences by UCD School of Sociology 13,534 views 9 years ago 58 minutes - The theme for this seminar series was '**Agent Based Modelling**, for **Social**, Innovation'. There were two speakers, this footage ...

Introduction

Asian Based Models

Hierarchy of Models

Statistical Models

Markov Models

System Systems Dynamics

Systems Dynamics

Wealth Distribution

Agents

Synthetic Population

Advantages of Agent Based Modelling

Examples

Challenges

Sources

Checklist

Applying agent-based modelling (ABM) to evaluation - Professor Nigel Gilbert - Applying agent-based modelling (ABM) to evaluation - Professor Nigel Gilbert by National Centre for Research Methods (NCRM) 13,552 views 5 years ago 21 minutes - Professor Nigel Gilbert was presenting at the 8th ESRC Research Methods Festival, 3rd - 5th July 2018 at the University of Bath.

Introduction

Simulation

Agentbased model

What is evaluation

The problem with evaluation

Path dependence

Agentbased models

Stochastic models

Further resources

Introduction To Agent-Based Models by Andrew Crooks and Sara Metcalf - Introduction To Agent-Based Models by Andrew Crooks and Sara Metcalf by UBuffalo Engineering and Applied Sciences 7,152 views 2 years ago 2 hours, 3 minutes - Introduction To **Agent,-Based Models**, by Andrew Crooks and Sara Metcalf | CDSE Days 2021.

Tutorial Outline

What is Agent-based Modeling?

Types of Problems Agent-Based Models can Explore

Modeling Process

Building an Agent-based Model

A Simple Agent-based Model Example: -Models the movement of cars on

Shockwave Traffic Jam in Reality

ABM Example: Residential Segregation

Schelling Segregation Model: 75 % Similar Wameu

Real World Segregation

Install NetLogo

Typical NetLogo Model Architecture

NetLogo Agents

NetLogo Data Structures

The Main Components of the NetLogo Interface

Open Up Wolf Sheep Predation

The Observer and the "ask" Command

Using the Command Center

Segregation Modeling

Seminar: Using agent-based models to simulate social systems - Seminar: Using agent-based models to simulate social systems by SPHSU University of Glasgow 2,980 views 2 years ago 59 minutes - Seminar delivered by Prof Alison Heppenstall.

Using agent-based models to simulate social systems

ESRC-Turing Fellowship

Population synthesis

Uncertainty Quantification

Introduction to Spatial Agent-Based Models Part 2 - Introduction to Spatial Agent-Based Models

Part 2 by The National Socio-Environmental Synthesis Center 2,534 views 3 years ago 22 minutes

- How Do **Agent,-Based Models**, Work? – In the second video of this two-part series, Dr. Nicholas R. Magliocca continues with his ...

UCCSS Hilbert ABM1: Agent-based Modeling Introduction - UCCSS Hilbert ABM1: Agent-based Modeling Introduction by Martin Hilbert 1,237 views 5 years ago 2 hours, 38 minutes - This lecture is part of the University of California wide online course on **Computational Social Science**, (UCCSS), produced with ...

Computational Scientific Methods

Today's questions

Modeling as Mapping

Richard Feynman 1918 - 1988

Computer models

Virtual models of Reality

Extension of Schelling's segregation model

Cloning a Cute Girl in a DNA Laboratory>ìCloning a Cute Girl in a DNA Laboratory>by Coby Persin 9,583,280 views 9 months ago 58 seconds – play Short - Business Inquiries: cobypersinshow@yahoo.com **Model**, from video: @sophiacamillecollier.

Simulating Green Beard Altruism - Simulating Green Beard Altruism by Primer 3,925,860 views 2 years ago 13 minutes, 23 seconds - Music by Mathieu Keith. For business inquiries: mathieu.keith@gmail.com Several other inputs into the graphics are from public ...

Artificial Intelligence Full Course | Artificial Intelligence Tutorial for Beginners | Edureka - Artificial Intelligence Full Course | Artificial Intelligence Tutorial for Beginners | Edureka by edureka! 3,516,519 views 4 years ago 4 hours, 52 minutes - 00:00 Introduction to Artificial Intelligence Course 02:27

History Of AI 06:45 Demand For AI 08:46 What Is Artificial Intelligence?

Introduction to Artificial Intelligence Course

History Of AI

Demand For AI

What Is Artificial Intelligence?

AI Applications

Types Of AI

Programming Languages For AI

Introduction To Machine Learning

Need For Machine Learning

What Is Machine Learning?

Machine Learning Definitions

Machine Learning Process

Types Of Machine Learning

Supervised Learning

Unsupervised Learning

Reinforcement Learning

Supervised vs Unsupervised vs Reinforcement Learning

Types Of Problems Solved Using Machine Learning

Supervised Learning Algorithms

Linear Regression
Linear Regression Demo
Logistic Regression
Decision Tree
Random Forest
Naive Bayes
K Nearest Neighbour (KNN)
Support Vector Machine (SVM)
Demo (Classification Algorithms)
Unsupervised Learning Algorithms
K-means Clustering
Demo (Unsupervised Learning)
Reinforcement Learning
Demo (Reinforcement Learning)
AI vs Machine Learning vs Deep Learning
Limitations Of Machine Learning
Introduction To Deep Learning
How Deep Learning Works?
What Is Deep Learning?
Deep Learning Use Case
Single Layer Perceptron
Multi Layer Perceptron (ANN)
Backpropagation
Training A Neural Network
Limitations Of Feed Forward Network
Recurrent Neural Networks
Convolutional Neural Networks
Demo (Deep Learning)
Natural Language Processing
What Is Text Mining?
What Is NLP?
Applications Of NLP
Terminologies In NLP
NLP Demo
Machine Learning Masters Program
Elon Musk Laughs at the Idea of Getting a PhD... and Explains How to Actually Be Useful! - Elon Musk Laughs at the Idea of Getting a PhD... and Explains How to Actually Be Useful! by Inspire Greatness 7,140,435 views 1 year ago 39 seconds – play Short
that you're trying to create
makes a big difference
affects a vast amount of people
What is Demography? - What is Demography? by Marketing Business Network 33,278 views 2 years ago 1 minute, 56 seconds - This video presentation explains what **demography**, is. Put simply, **demography**, is is statistical study of populations; specifically, ...
Data Science Full Course - Learn Data Science in 10 Hours | Data Science For Beginners | Edureka - Data Science Full Course - Learn Data Science in 10 Hours | Data Science For Beginners | Edureka by edureka! 3,599,388 views 4 years ago 10 hours, 23 minutes - Edureka Data **Science**, Training & Certifications Data **Science**, Training using Python: <http://bit.ly/2P2Qbl8> Python ...
Agenda
Data Sources
Data Analysis At Walmart
What is Data Science?
Who Is A Data Scientist?
Data Science - Skill Set
Data Science Job Roles
Data Life Cycle
Research Grants | Funding Bodies, Application types, Preparation and more | E15 - Research Grants | Funding Bodies, Application types, Preparation and more | E15 by Konstantinos Daniel Tsavdaridis, PhD 14,908 views 1 year ago 19 minutes - **Social**, Media Monitor: ¶Facebook:

<http://www.facebook.com/KDTsavdaridis/> LinkedIn: ...

Social Ecological Model - Social Ecological Model by Michael Stellefson 24,322 views 4 years ago 1 minute, 51 seconds - Description.

Building Agent-based Models with GPT 4 and Netlogo - Building Agent-based Models with GPT 4 and Netlogo by Germination 2,575 views 10 months ago 12 minutes, 16 seconds - This video walks you through a process for using GPT-4 to build **agent-based models**, in Netlogo.

Introduction to Ethnography - Introduction to Ethnography by Shane Sharp 10,333 views 3 years ago 34 minutes - So now we begin the second part of our course by discussing another popular qualitative research method in the **social sciences**, ...

Agent-Based Modelling by Bruce Edmonds - Agent-Based Modelling by Bruce Edmonds by method-sMcr 6,591 views 11 years ago 4 minutes, 49 seconds - Agent, **-Based**, Simulation allows the explicit representation and exploration of the complex relationship between individual ...

What are agent based models?

Introduction to Spatial Agent-Based Models Part 1 - Introduction to Spatial Agent-Based Models Part 1 by The National Socio-Environmental Synthesis Center 4,799 views 3 years ago 14 minutes, 43 seconds - Introduction to Spatial **Agent-Based Models**, of **Socio,-Environmental**, Systems – In the first video of this two-part series, Dr. Nicholas ...

Introduction

Social Environmental Systems

Heterogeneity

Selforganization

BottomUp Models

ProcessBased Models

generative social science

~~This videogame is about Game Theory and Agent-based Modeling!~~ This videogame is about Game Theory and Agent-based Modeling! by Social Complexity / Computational Social Science 1,156 views 3 years ago 12 minutes, 29 seconds - In this video we look at Nicky Case's videogame "the evolution of trust." In this game we will see the basics of game theory, as well ...

Game theory and videogames

The prisoner dilemma

Utility is not (just) money

Repeated interactions

Characters explained

The best strategy

Evolutionary framework

Explanation

Summary

Seasonal School: Agent based models in Economics: theory, toolkit, and policy laboratories (ENG) - Seasonal School: Agent based models in Economics: theory, toolkit, and policy laboratories (ENG) by ScuolaSantAnna 275 views 1 year ago 2 minutes, 45 seconds - ApplyNow #SeasonalSchool "**Agent based models**, in **Economics**,: theory, toolkit, and policy laboratories" is the Seasonal ...

The Contribution of Agent based Modelling - ESRC-OMS International Macro Symposium Oct 1-2, 2012 - The Contribution of Agent based Modelling - ESRC-OMS International Macro Symposium Oct 1-2, 2012 by Oxford Martin School 197 views 10 years ago 1 hour, 1 minute - ESRC-OMS International Macro Symposium Oct 1-2, 2012 Oxford Martin School, University of Oxford www.oxfordmartin.ox.ac.uk.

Complex Systems

Agent-Based Models

Self-Organization

The Santa Fe Stock Market Model

Origin Based Models

Strength of Asian Based Model

Casting the Agent-Based Modeling to Network Terms

Agent based modelling (part 1): What is agent based modelling? - Agent based modelling (part 1): What is agent based modelling? by Stylianos Kampakis 8,742 views 5 years ago 5 minutes, 13 seconds - Agent based modelling, (part 1): What is **agent based modelling**,? To Subscribe!!

<https://bit.ly/3xiivHg> **Agent based modelling**, is a ...

Systems Dynamics & Agent Based Modeling - Systems Dynamics & Agent Based Modeling by The National Socio-Environmental Synthesis Center 5,835 views 5 years ago 2 minutes, 48 seconds -

While Systems Dynamics **modeling**, assumes a systems structure upfront, **Agent Based Modeling**, begins by focusing on the ...

Agent-Based Modeling: What is Agent-Based Modeling? - Agent-Based Modeling: What is Agent-Based Modeling? by Complexity Explorer 91,182 views 5 years ago 5 minutes, 56 seconds - These videos are from the Introduction to **Agent Based Modeling**, course on Complexity Explorer (complexityexplorer.org) taught ...

What a Model Is

What Is an Agent-Based Model

Agent-Based Modeling

Webinar: Introduction to agent-based modelling for social scientists - Webinar: Introduction to agent-based modelling for social scientists by UK DATA SERVICE 1,605 views 2 years ago 1 hour, 1 minute - Social science, seeks to understand and predict patterns involving human behaviour, many of which are large-scale and complex.

Agent Based Modeling for Social Sciences

Prosthetic Leg

Wind Tunnel

Mentee Quiz

Open Systems

Examples

What Is an Agent

Multi-Agent Systems

Agent-Based Models

What in Theory Would You Use an Agent-Based Model To Explore

Media Discourse

Simulated World

Agents Are Unique and Behave Uniquely

The Difference between States and Variables

Rules

Sample Models

Netlogo

Infection and Recovery Rates

Why Should You Even Worry about an Agent-Based Model

Why You Should Use an Agent-Based Model

Parameter Sweeps

Outcome Probabilities

Pros of Agent-Based Modeling

Cons

Platforms

Summary

Cellular Automata

Tips on How Best To Report Results of Agent-Based Models

Info Tab

Any Recommendations for Resources in Python To Do Agent-Based Modeling

Code Examples

Evaluation

Guest lecture: Agent-based modelling for exploring decentralised water management - Guest lecture: Agent-based modelling for exploring decentralised water management by UK DATA SERVICE 419 views 2 years ago 49 minutes - In this free seminar, Kavin will talk about their **agent,-based model**, called WATER user associations at the Interface of Nexus ...

Introduction

Differences in water management

Challenges in implementing decentralised water management

Fieldwork

System overview

Agentbased model

Watering model

Crop water demand

Livestock water demand

Membership water allocation

Water agents actions
 Water users
 Water users behaviour
 Netlogo model demo
 Netlogo model results
 Results
 Validation
 Participatory Systems Mapping
 Flowcharts
 Watering Stories
 Stakeholder Feedback
 Open Source
 Summary
 Beale Lecture 2019: Dr Itamar Megiddo - Agent-based modelling - Beale Lecture 2019: Dr Itamar Megiddo - Agent-based modelling by The OR Society 381 views 4 years ago 25 minutes - Title: **Agent,-based modelling**, for healthcare policy decisions in low and middle-income countries: analyses using data from India.
 Modelling for Healthcare Policy
 Health economic evaluations have not typically considered the complexity of the health system
 Economic evaluations used for decision- support and prioritization should consider context
 Agent-based modelling
 India Sim, an agent-based model to prioritize policies and interventions in India
 IndiaSim models a patch-based environment representing e.g., rural and urban areas of Indian states
 Patches comprise different healthcare facilities
 Introducing vaccines in India's Universal Immunization Programme (UIP)
 Rotavirus introduction: evaluating targeting rural poor areas
 Rotavirus model Under-five deaths averted
 PCV model panel
~~Agent Based Modelling - Simply explained - 646~~ Agent Based Modelling - Simply explained - 646
 Complexity / Computational Social Science 20,468 views 3 years ago 9 minutes, 32 seconds - In this video, we are going to explain what **agent,-based modelling**, (or **agent,-based**, simulation) is. We are also going to explain ...
 Intro
 Limits of mathematical modelling
 Definition of agent-based modelling
 What are cellular automata
 Classic agent-based modelling
 Artificial intelligence
 Demographic transition model| Human populations| AP Environmental science| Khan Academy - Demographic transition model| Human populations| AP Environmental science| Khan Academy by Khan Academy 9,409 views 2 years ago 7 minutes, 19 seconds - Learn to apply the **demographic**, transition **model**, to populations. Khan Academy is a nonprofit organization with the mission of ...
 Introduction
 Transition state
 Industrial
 Search filters
 Keyboard shortcuts
 Playback
 General
 Subtitles and closed captions
 Spherical videos

Modelling In Natural Sciences Design Validation And Case Studies 1st Edition

Applied and efficient modeling in natural resources case studies of mining and oil and gas - Applied and efficient modeling in natural resources case studies of mining and oil and gas by atRISK 669 views 9 years ago 59 minutes - Commercial interests in **natural**, resources present particular challenges to the modeler, such as price volatility, ...

Why do we build models

Purpose and content

Case 1: Portfolio Optimization

Variables affecting production

Complexity on this project

Technical challenge: adding uncertainty in regression parameters

How does centering work?

Why does this matter?

Conclusions

Lecture - Requirements, Models, and Properties: Their Relationship and Validation. - Lecture - Requirements, Models, and Properties: Their Relationship and Validation. by IEEE Southern MN Section 81 views Streamed 5 years ago 1 hour, 8 minutes - Lecture by Mats Heimdahl, Ph.D. of University of Minnesota. Getting the system requirements right in a development project is ...

Tonight's Feature Presentation

Being an Engineer

How We Develop Software

Rockwell Collins Capture Requirements as Shalls...

Model Checking Process

Over Many Years, Experience

Requirements 3 Ways

The 3 are Related

Property and Model Relationship

Verification and Testing

Iterative Verification

Property or Model: Which is Right?

Requirements Collective

Research Needs

Use Cases in UML

Scenarios for the Use-Cases

Business Case-Studies, Models and Design Principles - Business Case-Studies, Models and Design Principles by CITRIS 99,988 views 16 years ago 54 minutes - Dr. J. Sairamesh (Ramesh), Managing Partner at 360Fresh Inc. In this talk I will **cover**, Service ValueNetworks that have emerged ...

Introduction

Background

IBM

Service Valley Network

Supply Base

IBM Case Study

BMW Case Study

Working to Solve

Modeling the Environment

Root Cause Analysis

External Factors

Conclusion

Tools of Science: Modeling - Tools of Science: Modeling by Tools of Science 91,501 views 5 years ago 6 minutes, 11 seconds - Scientists, use mathematical **models**, in **science**, to help explain and predict fundamental aspects of the real world. Mathematical ...

MODELING IN SCIENTIFIC INVESTIGATIONS

INTUITION

MAKING CONNECTIONS

Case Studies 1 - Case Studies 1 by Landward Research 9 views 1 year ago 2 hours, 2 minutes

Test Design and Model Validation for DoD Weapon Systems - Test Design and Model Validation for DoD Weapon Systems by IDA 262 views 3 years ago 1 hour, 25 minutes - In this video you will hear from three speakers on the topics of test **design**, and **model validation**, for DoD Weapon Systems:

- J.

Purpose

Developmental Test vs. Operational Test

AFOTEC Adaptive Relevant Testing Overview

Employment Concepts

KC-46A OT Test Design
Test Methodology (Effectiveness)
Test Methodology (Suitability)
Identify Issues Early (Performance)
Reduce Cost Through Optimized Testing (Cost)
ART Principles in Action
Old vs New Locks
Lessons Learned
Questions
Change in Mechanism
Single Mechanism vs. Two Mechanisms
Test Design Considerations
Simulation Study Setup
Parameter Median Bias
Example with Unknown Mechanism
Parameter RMSE
Conclusions
Future Work
References
Study Design 1 Overview Draft 072715 - Study Design 1 Overview Draft 072715 by Dr. Jessica Uriarte Wright 18,901 views 8 years ago 4 minutes, 54 seconds - ... **case**, reports cross-sectional **studies case**, control **studies**, cohort **studies**, and controlled trials the five C's but which **design**, is right ...
17 Most in-demand jobs for the next 10 year (and jobs that have no future) - 17 Most in-demand jobs for the next 10 year (and jobs that have no future) by Silicon Valley Girl 544,440 views 1 year ago 16 minutes - This video is sponsored by Renderforest Timestamps: 00:00 Top 17 professions of the future 01:10 #17 Lawyer (online) 01:33 #16 ...
Top 17 professions of the future
17 Lawyer (online)
16 Managers of individual healthcare programs
15 ESG specialists
14 Data journalist
13 QA Testing
Thank you Renderforest for sponsoring this video
12 Market analytics
11 Cooks
10 Cyber security specialist
9 Home health and personal care aides
8 Fitness trainers
7 Nurses
6 Agents and business managers of celebrities
5 Solar panel installer
4 Ushers, lobby attendants, and ticket takers
3 Wind turbine service technicians
2 Motion designers and VR professionals
1 Machine learning engineers and artificial intelligence specialist
Top 7 jobs that have no future
10 Ways To Use ChatGPT To Write Research Papers (ETHICALLY) In 2023 - 10 Ways To Use ChatGPT To Write Research Papers (ETHICALLY) In 2023 by Academic English Now 493,762 views 9 months ago 25 minutes - 00:00 - Intro 03:53 - #1, Research paper titles using ChatGPT 07:04 - #2 Writing an abstract using ChatGPT 08:51 - #3 Writing a ...
Intro
1 Research paper titles using ChatGPT
2 Writing an abstract using ChatGPT
3 Writing a research gap using ChatGPT
4 Writing a research question using ChatGPT
5 Making a research question more specific
6 Writing a literature review using ChatGPT
7 Structure of a literature review using ChatGPT

8 Writing an introduction using ChatGPT

9 Writing an introduction on a topic that hasn't been published yet using ChatGPT

10 Writing an introduction from the abstract using ChatGPT

Book in a free call

The Complete Project Management Body of Knowledge in One Video (PMBOK 7th Edition) - The Complete Project Management Body of Knowledge in One Video (PMBOK 7th Edition) by David McLachlan 706,367 views 1 year ago 1 hour, 1 minute - The complete PMBOK Guide 7th **Edition**, (Project Management Body of Knowledge), in one video, 60 minutes, one sitting.

PMBOK 7th Edition Introduction

Twelve Principles of project management

Three PMBOK Sections

SECTION I - Project Performance Domains

Stakeholder Performance

Team Performance

Development approach and life cycle

Planning

Project Work

Delivery

Measurement

Uncertainty and Risk

SECTION II - Tailoring

Why Tailor?

What to Tailor

The Tailoring process

Tailoring the Performance Domains

SECTION III - Models, Methods and Artifacts

Models

Methods

Artefacts

Well done!

Natasha Jaques PhD Thesis Defense - Natasha Jaques PhD Thesis Defense by Natasha Jaques 635,926 views 2 years ago 1 hour, 30 minutes - Presentation of my thesis "Towards Social and Affective Machine Learning" ...

Introduction

Machine Learning

Intrinsic Motivation

Conclusion

Clarification

Hypothesis

Example

Extra Papers

Thank You

QA

How to Build a Product that Scales into a Company - How to Build a Product that Scales into a Company by Harvard Innovation Labs 1,416,079 views 11 months ago 1 hour, 5 minutes - Build it, and they will come" is a dangerous mindset in the startup world. Even if you create a great product, building a successful ...

5 Best Design Systems and How to Learn (and Steal) From Them - 5 Best Design Systems and How to Learn (and Steal) From Them by DesignerUp 100,610 views 3 years ago 11 minutes, 15 seconds - Design, systems (like Material **Design**., and Lightning **Design**,) are all the rage and while most articles talk about what a **design**, ...

Intro

What is a design system?

Learning from design systems

1. Google Material Design System

2. Atlassian Design System

3. Apple Human Interface Guidelines

4. Mailchimp Design System

5. HelpScout Design System

Worth checking out

The design portfolio that got me hired at Wealthsimple - The design portfolio that got me hired at Wealthsimple by femke.design 156,246 views 2 years ago 15 minutes - At some point during your **design**, interview process, you'll probably be asked to share your portfolio presentation. I recently did ...

Intro

Chapter 1: About Me

Chapter 2: The Work — First case study

Framer

Second case study

Third case study

Wrapping up with the final pitch

Understanding CRISPR-Cas9 - Understanding CRISPR-Cas9 by Andrew Douch 136,388 views 2 years ago 35 minutes - This video is a deep-dive into CRISPR-Cas9, but it takes the time to explain terms and concepts carefully, so that students who are ...

Introduction

How CRISPRCas9 works

Cas9 Enzyme

Guide RNA

SG RNA

Adaptive immune response

CRISPRCas9 editing

Nonhomologous end joining

Homologous directed repair

Resection to a chi site

Inserting a foreign gene

Double strand break repair

Why doesnt CRISPRCas9 cut the bacterias own DNA

Artificial Intelligence Full Course | Artificial Intelligence Tutorial for Beginners | Edureka - Artificial Intelligence Full Course | Artificial Intelligence Tutorial for Beginners | Edureka by edureka! 3,515,403 views 4 years ago 4 hours, 52 minutes - 00:00 Introduction to Artificial Intelligence Course 02:27

History Of AI 06:45 Demand For AI 08:46 What Is Artificial Intelligence?

Introduction to Artificial Intelligence Course

History Of AI

Demand For AI

What Is Artificial Intelligence?

AI Applications

Types Of AI

Programming Languages For AI

Introduction To Machine Learning

Need For Machine Learning

What Is Machine Learning?

Machine Learning Definitions

Machine Learning Process

Types Of Machine Learning

Supervised Learning

Unsupervised Learning

Reinforcement Learning

Supervised vs Unsupervised vs Reinforcement Learning

Types Of Problems Solved Using Machine Learning

Supervised Learning Algorithms

Linear Regression

Linear Regression Demo

Logistic Regression

Decision Tree

Random Forest

Naive Bayes

K Nearest Neighbour (KNN)

Support Vector Machine (SVM)

Demo (Classification Algorithms)
Unsupervised Learning Algorithms
K-means Clustering
Demo (Unsupervised Learning)
Reinforcement Learning
Demo (Reinforcement Learning)
AI vs Machine Learning vs Deep Learning
Limitations Of Machine Learning
Introduction To Deep Learning
How Deep Learning Works?
What Is Deep Learning?
Deep Learning Use Case
Single Layer Perceptron
Multi Layer Perceptron (ANN)
Backpropagation
Training A Neural Network
Limitations Of Feed Forward Network
Recurrent Neural Networks
Convolutional Neural Networks
Demo (Deep Learning)
Natural Language Processing
What Is Text Mining?
What Is NLP?
Applications Of NLP
Terminologies In NLP
NLP Demo

Machine Learning Masters Program

The difference between Concepts Models and Theories - The difference between Concepts Models and Theories by NurseKillam 171,925 views 10 years ago 4 minutes, 23 seconds - Check out the links below and SUBSCRIBE for more youtube.com/user/NurseKillam Related Videos: ...

Intro

Concepts

Frameworks

Methods

Models

ASEC 2020 Good Practice in MBSE Model Verification and Validation by Alex Hazle and James Towers - ASEC 2020 Good Practice in MBSE Model Verification and Validation by Alex Hazle and James Towers by INCOSE UK 432 views 3 years ago 44 minutes - This paper reviews some of the literature on verification and **validation**, for Systems, Software and Requirements Engineering and ...

Introduction

Literature Review

Round Table

Mind Map

Use Case Diagram

Purpose of Verification

Why Verification

Generic Verification Process

Purpose of Validation

Types of Validation

Types of Model Review

Model Review Challenges

Review

Questions

Scientific and Regulatory Considerations Analytical Validation Qualification of Biomarkers - DAY 1 - Scientific and Regulatory Considerations Analytical Validation Qualification of Biomarkers - DAY 1 by Duke Margolis 869 views Streamed 6 years ago 8 hours, 21 minutes - And as the end, **case studies**, that we would like. I already mentioned the kidney safety biomarker clinical **validation**, which is a ...
GWF2021 - From Modelling to Management, Policy & Practice – Case Studies from Global Water

Futures - GWF2021 - From Modelling to Management, Policy & Practice – Case Studies from Global Water Futures by Global Water Futures 89 views 2 years ago 1 hour, 31 minutes - May 17, 2021.
Introduction to SIMULIAworks for Design Validation - Introduction to SIMULIAworks for Design Validation by CADimensions, Inc. 318 views 2 years ago 44 minutes - Hardware bottlenecks and collaboration issues are often found when trying to create a virtual prototype or **validate**, designs, which ...

Introduction

What is SIMULIAworks

Agenda

SIMULIAworks Overview

Structural Designer

Structural Engineer

Structural Performance Engineer

Structural Mechanics Engineer

Material Calibration

Explicit Solver

Durability

Structures Fatigue

Plastic Injection

Guided Assistant Walkthrough

Fluid Dynamics Engineer

Simulation Collaborator

QA

video 1 what is design science - video 1 what is design science by Roel Wieringa 5,511 views 3 years ago 13 minutes, 58 seconds - And if we look at the social **sciences**, we see a lot more qualitative methods. Interviews, questionnaires, **case studies**, maybe even ...

Validation 4.0 Objectives, Working Model, & the Relation to QbD & Pharma 4.0 - Validation 4.0 Objectives, Working Model, & the Relation to QbD & Pharma 4.0 by Pharma Best Practices

Webinars 3,132 views 2 years ago 1 hour, 27 minutes - About the Webinar The ISPE's Special Interest Group (SIG) on **Validation**, 4.0 has been meeting since late 2019 to work on new ...

Introduction

Objectives

Agenda

Questions

Why do we validate

Cost of validation

Duration of validation

Frequency of validation

Nonvalueadded activities

What needs to change

Mindset

Validation 4.0 Overview

What have we done so far

Quality by Design Control Strategy

Challenges

Validation 4.0 Model

Summary

Case Studies

Managing User Requirements

Analogy

Process Map Example

Risk Management

Agent-based modelling for policy design // Adam Formica - Agent-based modelling for policy design // Adam Formica by School of Geography and the Environment, Oxford 373 views 6 years ago 46 minutes - Technology Empowered Conservation Series // 8 February 2018 Agent-based **modelling**, for policy **design**, // Adam Formica, ...

Introduction

Overview

Why

Simulations
Agentbased models
Emergent behavior
Demo
Presenter mode
Indicators
Follow Agent
Map
Risk
Scheduling
Anonymous voices
Watch what happens
Changing the model
Reverse the model
Timing parameter sensitivity
Why plan in advance
Web version
Other models
Fisheries
Quotas
Tradeable quotas
Protected areas
Elephant poaching
Individual base models
Resources
Modeling Commons
Contact details
Data Science Methodology 101 - Modeling Case Study - Data Science Methodology 101 - Modeling Case Study by Cognitive Class 7,712 views 7 years ago 4 minutes, 3 seconds - Data **Science**, Methodology Grab you lab coat, beakers, and pocket calculator...wait what? wrong path! Fast forward and get in ...
Introduction
Modeling
Parameter Tuning
Yes No Outcomes
Relative Cost Outcomes
Conclusion
Promoting Higher-Order Thinking through Case Studies - Promoting Higher-Order Thinking through Case Studies by Academic Assessment & Evaluation Division 1,508 views Streamed 2 years ago 1 hour, 43 minutes - Speaker: Professor Dr Faizah Abdul Majid (Director of Academic Development, Curriculum Affairs and Academic Collaborations, ...
Introduction
Thank you
Deliberate Outcomes
Sharing Session
What is Case Study
Variables of Case Study
Units of Analysis
Assess
Assessment
Job Prospects
Case Study
KSA
Active Learning Environment
Case Study: CBT Architects - Building Performance Modeling - Case Study: CBT Architects - Building Performance Modeling by Integrated Environmental Solutions (IES) 7,886 views 12 years ago 43 minutes - CBT Architects present how they are integrating IES building performance analysis into their **design**, process using the Fitchburg ...
Map of the University

3d Visualization
Exterior Building Insulation
Btu Loads
Vertical and Horizontal Shades
Vertical Shades
Architectural Lighting
Output
Continuous Experimentation
WWC Single Case Design Training, Module 2, Part 1: Single-Case Designs – Introduction - WWC
Single Case Design Training, Module 2, Part 1: Single-Case Designs – Introduction by Institute
of Education Sciences 578 views 11 months ago 15 minutes - Module 2 provides an overview of
Single-**Case**, Designs (SCDs). Chapter **1**, describes SCDs and discusses common variations of ...
Intro
Module 2: Single-Case Designs
Overview of Single-Case Designs
Single-Case Design Variations
Treatment Reversal/ Withdrawal
Changing Criterion
Multiple Baseline
Multiple Probe
Alternating Treatment
Other Single-Case Designs Eligible for WWC Review
CRISPR Explained - CRISPR Explained by Mayo Clinic 1,275,609 views 5 years ago 1 minute, 39
seconds - This video is an explanation of CRISPR-Cas 9. FOR THE PUBLIC: More health and medical
news on the Mayo Clinic News ...
Design systems case study: messaging components [Part 1] - Design systems case study: messag-
ing components [Part 1] by femke.design 26,867 views 1 year ago 16 minutes - I've been working at
Wealthsimple as a Senior Product Designer, and during my time there, I have been on the **design**,
platform ...
Intro
About the project
Case study walk-through
Outro & what's next
Search filters
Keyboard shortcuts
Playback
General
Subtitles and closed captions
Spherical videos