Medicinal Chemistry Case Study

#medicinal chemistry #case studies #drug discovery #chemical synthesis #molecular targets

Explore real-world medicinal chemistry case studies highlighting drug discovery and development processes. Analyze the strategies and challenges involved in designing, synthesizing, and optimizing drug candidates targeting specific molecular targets, gaining valuable insights into the application of medicinal chemistry principles in solving complex health problems and advancing therapeutic interventions.

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

Why Agent-Based models are Social Sciences' future=é Why Agent-Based models are Social Sciences' future=íy 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 Avm 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 Leraning 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 Al
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 Complex-

ity 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 Al . 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 segregationor 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
Search filters
Keyboard shortcuts
Playback

General
Subtitles and closed captions
Spherical videos