

The Logical Systems Of Lesniewski

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Explore the profound and intricate logical systems developed by Stanisław Leśniewski, a pioneering figure in Polish logic. His groundbreaking work offers a unique perspective on foundational logic and formal logic, providing essential insights for understanding the philosophical underpinnings of mathematics and language.

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The Logical Systems Of Lesniewski

Stanisław Leśniewski - On the Foundations of Mathematics - Introduction and Chapter I - Stanisław Leśniewski - On the Foundations of Mathematics - Introduction and Chapter I by The Second Number-Class 184 views 2 years ago 27 minutes - This is the first video in a short series of videos on Stanisław Leśniewski's work titled, in English, On the Foundations of ...

Introduction

Background

Translations

The Introduction

Assertion Sign

Subscribe

Material supposition

Assumptions

Disjunction

Stanisław Leśniewski - The Foundations of the General Theory of Aggregates.I - Stanisław Leśniewski - The Foundations of the General Theory of Aggregates.I by The Second Number-Class 84 views 2 years ago 26 minutes - This video goes into some more detail with the contents of the Polish logician Stanisław Leśniewski's 1916 work Foundations of ...

A brief history of logic: Aristotle and deduction | Math Foundations 251 | NJ Wildberger - A brief history of logic: Aristotle and deduction | Math Foundations 251 | NJ Wildberger by Insights into Mathematics 37,393 views 5 years ago 28 minutes - In this video we begin to examine the history of **logic**, from its early beginnings in ancient Greece, with the work of Parmenides, ...

History of logic

What is logic?

Plato the founder of modern philosophy

Aristotle and the birth of logic

Structural statements of Aristotle

Four logical forms (Prepositions)

Syllogism s

Potential and actual infinity

Le[niewski - Foundations of the General Theory of Aggregates (Podstawy ogólnej teorii mnogo[ci] Pt.1
- Le[niewski - Foundations of the General Theory of Aggregates (Podstawy ogólnej teorii mnogo[ci]
Pt.1 by The Second Number-Class 207 views 2 years ago 13 minutes, 28 seconds - This video
presents my translations into English of the axioms, definitions and propositions of sections 1 to 8 of
the Polish logician ...

Section 5

Section Six

Sections Seven and Eight

StanisBaw Le[niewski - On the Foundations of Mathematics - Chapter II - StanisBaw Le[niewski - On the
Foundations of Mathematics - Chapter II by The Second Number-Class 113 views 2 years ago 14
minutes, 8 seconds - This is the second video in a short series of videos on StanisBaw Le[niewski's
work titled, in English, On the Foundations of ...

Crisis in the Foundation of Mathematics | Infinite Series - Crisis in the Foundation of Mathematics |
Infinite Series by PBS Infinite Series 955,139 views 6 years ago 12 minutes, 40 seconds - What if the
foundation that all of mathematics is built upon isn't as firm as we thought it was? Note: The natural
numbers ...

Introduction

Numbers

Dedekind Cut

Lotus ISM

Logic

A Systematic Approach to Logical Deduction & the Boole-Mobius Transform I | MF 277 | N J
Wildberger - A Systematic Approach to Logical Deduction & the Boole-Mobius Transform I | MF 277
| N J Wildberger by Insights into Mathematics 2,862 views 4 years ago 18 minutes - In this video we
explain how the Algebra of Boole allows a systematic framework for evaluating **logical**, deductions
in Propositional ...

Introduction

Convert statements into Boole polynumbers

Algebra of Boole achieves Leibniz's dream

Suitability for computer calculation

Definitions of Two-Placed Connectives in Lesniewski's Protothetic - Definitions of Two-Placed Con-
nectives in Lesniewski's Protothetic by Wolfram Demonstrations Project 44 views 7 years ago 33
seconds - To describe his extended propositional calculus (protothetic), which is **a logical system**,
based on a single axiom, Le?niewski ...

CHIPLETS: Divide and Conquer | The Future of Processors - CHIPLETS: Divide and Conquer | The
Future of Processors by My Computer 10,000 views 7 months ago 14 minutes, 32 seconds - One
die to control everything – this has been the paradigm of processor manufacturers for a long time.
But everything is changing, ...

KARL FRISTON - INTELLIGENCE 3.0 - KARL FRISTON - INTELLIGENCE 3.0 by Machine Learning
Street Talk 120,332 views 1 year ago 2 hours, 59 minutes - Prof. Karl Friston recently proposed a
vision of artificial intelligence that goes beyond machines and algorithms, and embraces ...

Intro

Numerai (Sponsor segment)

Designing Ecosystems of Intelligence from First Principles (Friston et al)

Information / Infosphere and human agency

Intelligence

Reductionism

Universalism

Emergence

Markov blankets

Whole part relationships / structure learning

Enactivism

Knowledge and Language

ChatGPT

Ethics (is-ought)

Can people be evil?

Ethics in AI, subjectiveness

Final thoughts

How ISPs Violate the Laws of Mathematics - How ISPs Violate the Laws of Mathematics by minutephysics 2,965,572 views 5 years ago 6 minutes, 8 seconds - This joke video is about how Internet Service Providers (aka ISPs, internet companies, telecommunications companies, etc) ...

Intro

The First Axiom

The Second Axiom

The Fourth Axiom

Why These Are The Best Numbers! - Why These Are The Best Numbers! by Artifexian 798,845 views 4 years ago 4 minutes, 11 seconds - The Kaktovik Iñupiaq numerals are great. ————— » SUPPORT ARTIFEXIAN ON PATREON: ...

The Banach–Tarski Paradox - The Banach–Tarski Paradox by Vsauce 43,193,780 views 8 years ago 24 minutes - Support Vsauce, your brain, Alzheimer's research, and other YouTube educators by joining THE CURIOSITY BOX: a seasonal ...
chocolate

Banach=Tarski paradox

whole numbers

Hyperwebster

common

What's so wrong with the Axiom of Choice ? - What's so wrong with the Axiom of Choice ? by MetaMaths 62,564 views 3 years ago 4 minutes, 50 seconds - One of the Zermelo- Fraenkel axioms, called axiom of choice, is remarkably controversial. It links to linear algebra and several ...

Math objects as sets

What axioms we use ?

Understanding axiom of choice

Axiom leads to paradoxes

Copy number variation and the secret of life - with Aoife McLysaght - Copy number variation and the secret of life - with Aoife McLysaght by The Royal Institution 392,022 views 9 years ago 53 minutes - Evolution is powered by variation: the differences in DNA sequences. One hugely important form of difference is copy number ...

Genes are complicated

Evolution of Colour Vision

Colour Vision: New World Monkeys

Globins: oxygen carriers

Hæmoglobin

Human genetic diversity

All healthy people carry many genetic variations

Too much of a good thing

An evolutionary approach to discovering the dosage sensitive genes

Dosage balanced genes

Whole genome duplication copies everything evenly

Evolutionary analysis successfully identifies dosage-sensitive genes

Intel's History of Con-trived Benchmarks - Intel's History of Con-trived Benchmarks by AdoredTV 48,176 views 5 years ago 27 minutes - Unprincipled Benchmarking 101. e Subscribe To AdoredTV - <http://bit.ly/1J7020P> » Support AdoredTV through Patreon ...

CBMM10 Panel: Research on Intelligence in the Age of AI - CBMM10 Panel: Research on Intelligence in the Age of AI by MITCBMM 106,489 views 3 months ago 1 hour, 27 minutes - On which critical problems should Neuroscience, Cognitive Science, and Computer Science focus now? Do we need to ...

How the Axiom of Choice Gives Sizeless Sets | Infinite Series - How the Axiom of Choice Gives Sizeless Sets | Infinite Series by PBS Infinite Series 297,014 views 6 years ago 13 minutes, 20 seconds - Does every set - or collection of numbers - have a size: a length or a width? In other words, is it possible for a set to be sizeless?

Intro

Definition of Size

Creating a Sizeless Set

The Axiom of Choice

Le[niewski - Foundations of the General Theory of Aggregates (Podstawy ogólnej teorii mnogo[ci] Pt.2 - Le[niewski - Foundations of the General Theory of Aggregates (Podstawy ogólnej teorii mnogo[ci] Pt.2 by The Second Number-Class 49 views 2 years ago 8 minutes, 29 seconds - This video presents

my translations into English of the axioms, definitions and propositions of sections 9 to 15 of the Polish ...

Introduction

Section 9 Propositions

Section 10 Propositions

Section 11 Propositions

Section 12 Propositions

Section 13 Propositions

Section 14 Propositions

Closing remarks

The law of logical honesty and the end of infinity | Data structures in Math Foundations 178 - The law of logical honesty and the end of infinity | Data structures in Math Foundations 178 by Insights into Mathematics 9,331 views 7 years ago 25 minutes - It is time to end the delusion which pervades modern 20th century style mathematics, and move towards a true mathematics for ...

Introduction

Complexity

Infinite Sets

Defending infinity

Implications for modern mathematics

Modern "Set Theory" - is it a religious belief system? | Set Theory Math Foundations 250 - Modern "Set Theory" - is it a religious belief system? | Set Theory Math Foundations 250 by Insights into Mathematics 45,963 views 5 years ago 18 minutes - Modern pure mathematics suffers from a uniform disinterest in examining the foundations of the subject carefully and objectively.

Does modern set theory really work as a logical foundation?

Modern set theory

Arithmetic with natural numbers as the mathematical foundation

How to model the continuum in mathematics

Ancient Greeks, 17th and 18th century, analysis

19th century mathematical analysis

20th century mathematical analysis

What is Logical Positivism? (See link below for Ludwig Wittgenstein Philosophy of Language) -

What is Logical Positivism? (See link below for Ludwig Wittgenstein Philosophy of Language) by PHILO-notes 34,827 views 3 years ago 3 minutes, 7 seconds - Logical, positivism is the direct result of the revision of positivism through the years. As we may already know, the positivism of ...

This man builds intelligent machines - This man builds intelligent machines by Machine Learning

Street Talk 21,936 views 3 months ago 2 hours, 27 minutes - Bert de Vries is Professor in the Signal Processing **Systems**, group at Eindhoven University. His research focuses on the ...

Principle of Least Action

Patreon Teaser

On Friston

Capm Peterson (VERSES)

Variational Methods

Dan Mapes (VERSES)

Engineering with Active Inference

Jason Fox (VERSES)

Riddhi Jain Pitliya

Hearing Aids as Adaptive Agents

Steven Swanson (VERSES)

Main Interview Kick Off, Engineering and Active Inference

Actor / Streaming / Message Passing

Do Agents Lose Flexibility with Maturity?

Language Compression

Marginalisation to Abstraction

Online Structural Learning

Efficiency in Active Inference

SEs become Neuroscientists

Building an Automated Engineer

Robustness and Design vs Grow

RXInfer

Resistance to Active Inference?

Diffusion of Responsibility in a System

Chauvinism in "Understanding"

On Becoming a Bayesian

Structuring Mathematics in Higher-Order Logic by Clemens Ballarin (aicas GmbH Karlsruhe, Germany) - Structuring Mathematics in Higher-Order Logic by Clemens Ballarin (aicas GmbH Karlsruhe, Germany) by FOMUS 2016 2,747 views 6 years ago 1 hour, 35 minutes - The Isabelle proof assistant is based on an intuitionist fragment of higher-order logic, in which **logical systems**, of discourse such as ...

The History of Logic: The Logic of Aristotle - The History of Logic: The Logic of Aristotle by Philosophy Overdose 23,705 views 2 years ago 8 minutes, 9 seconds - #philosophy #aristotle.

Sets, logic and computability | Math History | NJ Wildberger - Sets, logic and computability | Math History | NJ Wildberger by Insights into Mathematics 46,175 views 8 years ago 53 minutes - In this video we give a very quick overview of a highly controversial period in the development of modern mathematics: the rise of ...

Intro

Fourier series

Cantor

Functions

Ordinals

Cardinals

Collapse

Sub paradox

Logic

School of Formalism

A Systematic Approach to Logical Deduction, & the Boole-Mobius transform II | MF278 | N J

Wildberger - A Systematic Approach to Logical Deduction, & the Boole-Mobius transform II | MF278 |

N J Wildberger by Insights into Mathematics 3,308 views 4 years ago 26 minutes - In our last video, we set out a purely mechanical way of applying the Algebra of Boole to check the validity of classical ...

Introduction

An alternative technology for deriving deductions

Example: Truth table for Y

Converting Y

Example: Truth table for Z

Converting Z

Implication and 16 logical operations | Math Foundations 258 | N J Wildberger - Implication and 16 logical operations | Math Foundations 258 | N J Wildberger by Insights into Mathematics 8,372 views 5 years ago 36 minutes - Given two binary inputs p and q, there are four possible assignments of 0's and 1's to them, and correspondingly 16 different ...

Introduction

The 16 Logical Connectives / Operations

The 8 even Connectives / Operations

The 8 Odd Connectives / Operations

The 4 Implication Connectives / Operations

Modus Ponens

Using the Algebra of Boole

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