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Scikit TDA: Topological Tools for the Python Ecosystem | SciPy 2019 | Nathaniel Saul

Topology for Data Analysis

Peter Bubenik (6/2/20): Topological data analysis for biological images*Prof. Gunnar Carlsson - Topological Data Analysis and Deep Learning* Stanford Seminar - Topological Data Analysis: How Ayasdi used TDA to Solve Complex Problems **Kelin Xia (6/23/21): Topological data analysis (TDA) based machine learning models for drug design** *Topological Data Ysis And Machine*

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*Fujitsu and France's Inria Develop New Time-Series AI Technology to Identify Causes of Data Anomalies*

SymphonyAI, a leader in high-value enterprise AI solutions for key vertical sectors, announced today the expansion of a partnership with Semmelweis University Heart and Vascular Center, a leading ...

*SymphonyAI Announces Enterprise AI Research Partnership with Semmelweis University Heart and Vascular Center to Predict Healthcare Outcomes*

It has connections to manifold learning and provides the mathematical and algorithmic foundations of the rapidly evolving field of topological data analysis. Building on a rigorous treatment of ...

*Geometric and Topological Inference*

The researchers predicted a 5.35-fold increase in associations between wild and semi-domesticated mammalian hosts and known zoonotic viruses.

*How Machine Learning Predicts The Host Range Of Known Viruses*

Anodot, the autonomous business monitoring company, announced that it had been granted the US patent US10891558B2 for its Heuristic Inference of Topological Representation of Metric Relationships. The ...

*Anodot Receives U.S. Patent for Its Machine Learning-Based Correlation Analysis Engine*

One of the most remarkable and exotic properties of those materials is the emergence of exotic superconducting states, and particularly the superconducting states required to build future topological ...

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Topological defects' are formed when the symmetry of a magnetic material is disrupted. Domain walls (DWs) are a type of topological defect that separates regions of different magnetic orientations.

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This unexpected observation offers a new avenue for the production of materials with topological properties that are useful in spintronics applications and quantum computing. The discovery was made by ...

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In a new study, Nagoya University scientists used Lorentz transmission electron microscopy (LTEM) to visualize topological defects. They were able to do so by passing electrons and observing their ...

*News by Subject Technology & Engineering*
In the first phase of this mass analysis, the researchers compared the topological structure of these thousands of proteins available in the Protein Data Bank with the 23 proteins of the SARS-CoV ...

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*Four MIT faculty members receive 2021 US Department of Energy early career awards*
The EurekaAI enterprise platform finds patterns and delivers insights through a unique combination of topological data analysis (TDA ... and semi-supervised machine learning capabilities ...