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Professor Gunnar
Carlsson

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~~Analysis~~ **Who**

cares about

topology?

(Inscribed

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Analyzing and
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~~important? An~~

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for the Working

Data Scientist \ "

- Anthony Bak @

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*III: Topological
Descriptors*

*\u0026 How to
Use Them*

**Topological Data
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Nathaniel Saul1,

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Data Analysis

L. Dustin Arendt¹.
¹Visual Analytics Group,
Pacific

Northwest

National

Laboratory.

²Department of
Mathematics and
Statistics,
Washington State
University
Vancouver.

Introduction.

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provides an alternative perspective from traditional tools for understanding shape and structure of an object. With modern advances of the computational aspects of

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topology, these rich theories of shape can be applied to sparse and high dimensional data ...

**Machine Learning
Explanations
with Topological
Data Analysis**

Topological data analysis is

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arguably at the
vanguard of
machine learning
trends because
of its fine-
grained pattern
analysis that
supersedes that
of traditional
supervised or
unsupervised
learning.

Although
technically part

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Data Unsupervised

Learning,

topological data

analysis “is a

clustering

technique where

you get way

better results,”

Aasman

explained.

Tomorrow's

Machine Learning

Today:

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• • •
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The topological data analysis (TDA) algorithm extracts connected regions from the snapshots of global images on the grid. The algorithm maintains the connected

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Data Analysis
regions by
varying IWV
(referred to as
TMQ in CAM5.1)
values and
dynamically
keeps track of
the regions in
the grid.

GMD -

**Topological data
analysis and
machine learning**

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In the case of this data set we can't really tell, since we don't know anything more about the groups. Still, we have used the Random Forest metric on customer data to analyze possible

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failure modes

for thousands of
complex devices

based on data

collected during

device burn-in.

Topological

Analysis and

Machine

Learning:

Friends or ...

Topological data

analysis would

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data be possible
without this
tool. Since
then,

persistence has
been developed
and understood
quite
extensively.

Cohen-Steiner,
Edelsbrunner and
Harer proved the
important (and
nontrivial)

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theorem that the persistence diagram is stable under perturbations of the initial data.

Topological Data Analysis and Machine Learning Theory

The goal of TDA is to compute

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Learning
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and encode the topology of your data, which means recording the various connected components, loops, cavities, and higher-dimensional structures within your datasets. This can be extremely

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Data, mostly

because this

type of

information

cannot be

computed by

other

descriptors, so

TDA really

stores a unique

set of data

features that

you cannot find

everywhere else.

Read Book Topological Data Analysis

**The Holy Trinity
of Topological
Machine**

Learning: Gudhi

...

The newly-
emerging domain
comprising
topology-based
techniques is
often referred
to as
topological data

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Data Analysis (TDA).

Next to their applications in the

aforementioned areas, TDA

methods have also proven to be effective in supporting,

enhancing, and augmenting both classical

machine learning

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Overview |

Topological Data Analysis and Beyond

Topological Data Analysis, also abbreviated TDA, is a recent field that emerged from various works in

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Topological

applied topology

and

And Machine

computational

Learning
geometry. It

Theory
aims at

providing well-

founded

mathematical,

statistical and

algorithmic

methods to

exploit the

topological and

underlying

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Topological
geometric
structures in
data.
And Machine
Learning

**From Topological
Data Analysis to
Deep Learning:
No Pain ...**

In applied
mathematics,
topological data
analysis (TDA)
is an approach
to the analysis

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Topological Data Analysis

using techniques
from topology.

And Machine
Learning
Theory

Extraction of
information from
datasets that
are high-
dimensional,
incomplete and
noisy is
generally
challenging. TDA
provides a
general

Read Book
Topological
Data Analysis
framework to
analyze such
And Machine
data in a manner
Learning
that is
Theory
insensitive to
the particular
metric chosen
and provides
dimensionality
reduction and
robustness to
noise.

Topological data

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Topological Data Analysis – Wikipedia

Topological Data
Analysis and
Machine

Learning. Our
approach to
quantifying
patterns relies
on topological
data analysis
and machine
learning. TDA is
an emerging

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Data Analysis

mathematics and statistics that aims to extract

quantifiable

shape invariants from complex and often large data

(43 ↓ ↓ ↓ -47) .

One of the main tools in TDA is known as

persistent

homology, which

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we review now
briefly.

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Learning

**Topological data
analysis of
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Such statistical problems occur in the fields of functional data analysis (FDA), in which the data are viewed as realizations of random

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functions, as

well as

topological data

analysis (TDA),

in which e.g.

data from

topological

groups are

considered.

Statistics

special issue:

Functional and

Topological Data

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••• An introduction
to Topological
Data Analysis:
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practical
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scientists 11
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/TDA-tutorial •
Topological Data
Analysis (tda)
is a recent and
fast growing eld

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Data Analysis

providing a set
of new

And Machine
Learning
Theory
topological and
geometric tools

to infer

relevant

features for

possibly complex

data.

Topological Data

Analysis |

Papers With Code

“ Optimal

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Data Analysis

Topological Data
Analysis and

Applications to

Shape and

Machine

Learning”

Description: The

last few years

have seen the

rapid

development of

mathematical

methods for the

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of shape data
arising in
biology and
computer vision
applications.

**OT-TDA workshop
- TGDA@OSU**

Topological Data
Analysis is is a
sound family of
techniques that
is gaining an

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increasing
importance for
the interactive
analysis and
visualization of
data in imaging
and machine
learning
applications.

Julien Tierny -
Topological Data
Analysis Class

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And Machine
Learning
Theory
Manufacturing &
Semiconductor
sectors are
experiencing a
paradigm shift
in productivity
& product
quality with the
adoption of new
AI Machine
Learning
applications.

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Azima AI
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Performance
Management
approach draws
on the power of
Topological Data
Analysis (TDA)
to reliably
predict complex
outcomes, gain
deeper insights,
optimize

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operational
processes as
well as
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Learning
understand
Theory
probable root
causes while
diagnosing
failures.

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Symphony AzimaAI

The Symphony
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Ayasdi AI Analysis

platform
intelligence
combines

topological data
analysis,
machine
learning, and
statistical and
geometric
algorithms to
find patterns
automatically
that elude other

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Learning
approach
Theory
provides
exceptional
expandability
and
justification
for its
selections.

Platform -

AyasdiAI

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Ayasdi uses

topological data
analysis, a
powerful

mathematical
science

breakthrough
that integrates
the value of
supervised and
unsupervised
learning to
discover hidden
behaviors in

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