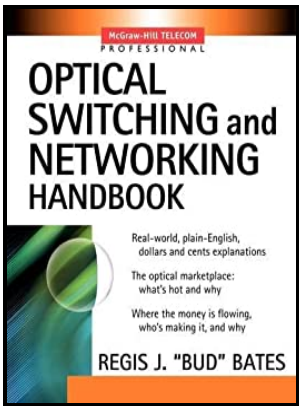
Learning from data streams - processing techniques in sensor networks

Springer - Machine learning and data analytics for the IoT



Description: -
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Coding theory
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Tags: #Learning #from #Data #Streams: #Processing #Techniques #in #Sensor #Networks: #Gama, #JoÃ£o, #Gaber, #Mohamed #Medhat: #9783540736783: #perssongroup.materialsproject.org: #Books

Stream Model for Data

Query dimensionality: We can distinguish between one-dimensional and multi-dimensional queries depending on how many different attributes are contained in the query.

Stream Model for Data

In general, there are two required components for handling failures: monitoring the stream processing pipeline and checkpointing the last successfully processed timestamp per machine. The Delta Tables are regularly optimized for peak performance. More details on micro-batch trigger intervals are provided in the Spark user guide.

Machine learning and data analytics for the IoT

In particular, we demonstrate the possibility of early fault detection in the optical system based on sensor data.

Deep Learning for Signal Processing: What You Need to Know

In contrast, Figure c, d show the sensor signal and the health indicator for a faulty machine.

Learning from Data Streams

In this paper we present an example for the design of such an end-to-end intelligent maintenance system, which has been developed for industrial laser cutting machines.

Related Books

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