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Concepts of Machine Learning and it's Applications in Semiconductor Devices



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Call for Chapters

Concepts of Machine Learning and it's Applications in Semiconductor Devices

Aims and Scope:

The need of an hour in human lives are smart devices. These smart devices used artificial intelligence and integrated circuits for their operation. Even medical devices, IoT devices and military required artificial intelligence and machine learning. This book provides a way to the learner to build and understand the basic mechanism of machine learning and its use in semiconductor devices. Machine Learning mitigates the use of TCAD tools in semiconductor devices. The use of machine learning in semiconductor devices enhance the accuracy. This book provides the various algorithms of machine learning such as regression, decision tree, support vector machine and k-means clustering etc. This book also explores the materials and their applications in various domain of science, technology, and everyday life to further provide research on the subject.

- Machine Learning: Past, Present & Future
- Machine Learning Algorithms
- Semiconductor Materials
- IoT
- Semiconductor Devices
- Image Processing
- Cyber Security
- Healthcare Applications
- Smart City Applications
- Signal Processing

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