Data Science with MATLAB. Classification Techniques (Paperback)



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Reviews

A really great pdf with lucid and perfect information. It is rally fascinating throgh reading through time. I am effortlessly can get a pleasure of reading a published book. (Reyes Lind)

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Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.This book develops Descriptive Classification Techniques (Cluster Analysis) and Predictive Classification Techniques (Decision Trees, Discriminant Analysis and Naive bayes and Neural Networks). In addition, the book also develops Classification Learner an Neural Network Techniques. Use the Classification Learner app to train models to classify data using supervisedmachine learning. The app lets you explore supervised machine learning interactivelyusing various classifiers. Automatically train a selection of models and help you choose the best model. Modeltypes include decision trees, discriminant analysis, support vector machines, logistic regression, nearest neighbors, and ensemble classification. Neural Network Toolbox provides algorithms, pretrained models, and apps to create, train, visualize, and simulate both shallow and deep neural networks. You can perform classification, regression, clustering, dimensionality reduction, time-series forecasting, and dynamic system modeling and control. The most important content in this book is the following: -Hierarchical Clustering -Similarity Measures -Linkages -Dendrograms -Verify the Cluster Tree -Create Clusters -k-Means Clustering -Introduction to k-Means Clustering -Create Clusters and Determine Separation -Determine the Correct Number of Clusters -Clustering Using Gaussian Mixture Models -Cluster Data from Mixture of Gaussian Distributions -Cluster Gaussian Mixture Data Using Soft Clustering -Parametric Segmentation -Evaluation Models -Performance Curves -ROC Curves -Decision Treess -Prediction Using Classification and Regression Trees -Improving Classification Trees and Regression Trees -Cross Validation -Choose Split Predictor Selection Technique -Control Depth or Leafiness -Pruning -Discriminant Analysis Classification -Prediction Using Discriminant Analysis Models - Confusion Matrix and cross valdation - Naive Bayes Segmentation - Data Mining and Machine Learning in MATLAB -Train Classification Models in Classification Learner App -Train Regression Models in Regression Learner App -Train Neural Networks for Deep Learning -Automated Classifier Training -Manual Classifier Training -Parallel Classifier Training -Decision Trees -Discriminant Analysis -Logistic Regression -Support Vector Machines -Nearest Neighbor Classifiers -Ensemble...

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