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Theory, Methodology, Techniques,
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Introduction to pattern classification 1 1 Pattern classification 1 2 Induction algorithms 1 3 Rule induction 1 4 Decision trees 1 5 Bayesian methods 1 6 Other induction methods 2 Introduction to ensemble learning 2 1 Back to the roots 2 2 The wisdom of crowds 2 3 The bagging algorithm 2 4 The boosting algorithm 2 5 The AdaBoost algorithm 2 6 No free lunch theorem and ensemble learning 2 7 Bias variance decomposition and ensemble learning 2 8 Occam's razor and ensemble learning 2 9 Classifier dependency 2 10 Ensemble methods for advanced classification tasks 3 Ensemble classification 3 1 Fusions methods 3 2 Selecting classification 3 3 Mixture of experts and meta learning 4 Ensemble diversity 4 1 Overview 4 2 Manipulating the inducer 4 3 Manipulating the training samples 4 4 Manipulating the target attribute representation 4 5 Partitioning the search space 4 6 Multi inducers 4 7 Measuring the diversity 5 Ensemble selection 5 1 Ensemble selection 5 2 Pre selection of the ensemble size 5 3 Selection of the ensemble size while training 5 4 Pruning post selection of the ensemble size 6 Error correcting output codes 6 1 Code matrix decomposition of multiclass problems 6 2 Type I training an ensemble given a code matrix 6 3 Type II adapting code matrices to the multiclass problems 7 Evaluating ensembles of classifiers 7 1 Generalization error 7 2 Computational complexity 7 3 Interpretability of the resulting ensemble 7 4 Scalability to large datasets 7 5 Robustness 7 6 Stability 7 7 Flexibility 7 8 Usability 7 9 Software availability 7 10 Which ensemble method should be used Granular, Fuzzy, and Soft Computing Tsau-Young Lin, Churn-Jung Liao, Janusz

Kacprzyk, 2023-03-29 The first edition of the Encyclopedia of Complexity and Systems Science ECSS 2009 presented a comprehensive overview of granular computing GrC broadly divided into several categories Granular computing from rough set theory Granular Computing in Database Theory Granular Computing in Social Networks Granular Computing and Fuzzy Set Theory Grid Cloud Computing as well as general issues in granular computing In 2011 the formal theory of GrC was established providing an adequate infrastructure to support revolutionary new approaches to computer data science including the challenges presented by so called big data For this volume of ECSS Second Edition many entries have been updated to capture these new developments together with new chapters on such topics as data clustering outliers in data

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