

1. Record Nr.	UNINA9910325457803321
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Titolo	Heliodors "klassische" Ekphrase : die literarische Visualität der "Aithiopika" im Vergleich mit ihren Vorläufern bei Homer und Herodot sowie ihrer Rezeption bei Miguel de Cervantes / Martin Antonius Menze
Pubbl/distr/stampa	Munster : Aschendorff, 2017
ISBN	9783402144572
Descrizione fisica	360 p. ; 21 cm
Collana	Orbis antiquus ; 51
Disciplina	883.01 809
Locazione	FLFBC
Collocazione	P2B 610 HELIOD. EMESEN. 8M.M.A. 2017
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910484600003321
Titolo	Multiple Classifier Systems : 9th International Workshop, MCS 2010, Cairo, Egypt, April 7-9, 2010, Proceedings / / edited by Neamat El Gayar, Josef Kittler, Fabio Roli
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2010
ISBN	1-280-38597-9 9786613563897 3-642-12127-6
Edizione	[1st ed. 2010.]
Descrizione fisica	1 online resource (X, 328 p. 77 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5997
Altri autori (Persone)	El GayarNeamat KittlerJosef <1946-> RoliFabio <1962->
Disciplina	006.3
Soggetti	Artificial intelligence Application software Pattern recognition systems Algorithms Computer science Database management Artificial Intelligence Computer and Information Systems Applications Automated Pattern Recognition Theory of Computation Database Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Classifier Ensembles(I) -- Weighted Bagging for Graph Based One-Class Classifiers -- Improving Multilabel Classification Performance by Using Ensemble of Multi-label Classifiers -- New Feature Splitting Criteria for Co-training Using Genetic Algorithm Optimization -- Incremental Learning of New Classes in Unbalanced Datasets: Learn?+?+?.UDNC -- Tomographic Considerations in Ensemble Bias/Variance Decomposition

-- Choosing Parameters for Random Subspace Ensembles for fMRI Classification -- Classifier Ensembles(II) -- An Experimental Study on Ensembles of Functional Trees -- Multiple Classifier Systems under Attack -- SOCIAL: Self-Organizing Classifier ensemble for Adversarial Learning -- Unsupervised Change-Detection in Retinal Images by a Multiple-Classifier Approach -- A Double Pruning Algorithm for Classification Ensembles -- Estimation of the Number of Clusters Using Multiple Clustering Validity Indices -- Classifier Diversity -- "Good" and "Bad" Diversity in Majority Vote Ensembles -- Multi-information Ensemble Diversity -- Classifier Selection -- Dynamic Selection of Ensembles of Classifiers Using Contextual Information -- Selecting Structural Base Classifiers for Graph-Based Multiple Classifier Systems -- Combining Multiple Kernels -- A Support Kernel Machine for Supervised Selective Combining of Diverse Pattern-Recognition Modalities -- Combining Multiple Kernels by Augmenting the Kernel Matrix -- Boosting and Bootstrapping -- Class-Separability Weighting and Bootstrapping in Error Correcting Output Code Ensembles -- Boosted Geometry-Based Ensembles -- Online Non-stationary Boosting -- Handwriting Recognition -- Combining Neural Networks to Improve Performance of Handwritten Keyword Spotting -- Combining Committee-Based Semi-supervised and Active Learning and Its Application to Handwritten Digits Recognition -- Using Diversity in Classifier Set Selection for Arabic Handwritten Recognition -- Applications -- Forecast Combination Strategies for Handling Structural Breaks for Time Series Forecasting -- A Multiple Classifier System for Classification of LIDAR Remote Sensing Data Using Multi-class SVM -- A Multi-Classifier System for Off-Line Signature Verification Based on Dissimilarity Representation -- A Multi-objective Sequential Ensemble for Cluster Structure Analysis and Visualization and Application to Gene Expression -- Combining 2D and 3D Features to Classify Protein Mutants in HeLa Cells -- An Experimental Comparison of Hierarchical Bayes and True Path Rule Ensembles for Protein Function Prediction -- Recognizing Combinations of Facial Action Units with Different Intensity Using a Mixture of Hidden Markov Models and Neural Network -- Invited Papers -- Some Thoughts at the Interface of Ensemble Methods and Feature Selection -- Multiple Classifier Systems for the Recognition of Human Emotions -- Erratum -- Erratum.

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#### Sommario/riassunto

These proceedings are a record of the Multiple Classifier Systems Workshop, MCS 2010, held at the Nile University, Egypt in April 2010. Being the ninth in a well-established series of meetings providing an international forum for discussion of issues in multiple classifier system design, the workshop achieved its objective of bringing together researchers from diverse communities (neural networks, pattern recognition, machine learning and statistics) concerned with this research topic. From more than 50 submissions, the Program Committee selected 31 papers to create an interesting scientific program. Papers were organized into sessions dealing with classifier combination and classifier selection, diversity, bagging and boosting, combination of multiple kernels, and applications. The workshop program and this volume were enriched by two invited talks given by Gavin Brown (University of Manchester, UK), and Friedhelm Schwenker (University of Ulm, Germany). As usual, the workshop would not have been possible without the help of many individuals and organizations. First of all, our thanks go to the members of the MCS 2010 Program Committee, whose expertise and dedication helped us create an interesting event that marks the progress made in this field over the last year and aspire to chart its future research. The help of James Field

from the University of Surrey, who administered the submitted paper reviews, and of Giorgio Fumera who managed the MCS website deserve a particular mention. Special thanks are due to the members of the Nile University Organizing Committee, Ahmed Salah, Amira El Baroudy, Esraa Aly, Heba Ezzat, Nesrine Sameh, Rana Salah and Mohamed Zahhar for their indispensable contributions to the registration management, local organization, and proceedings preparation.

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