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Multiple Classifier Systems

10th International Workshop, MCS 2011
Naples, Italy, June 15-17, 2011
Proceedings

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Preface

This volume contains the papers presented at the Multiple Classifier Systems Workshop, MCS 2011, held in Naples, Italy, during June 15–17, 2011. Being the tenth 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 the diverse communities (neural networks, pattern recognition, machine learning and statistics) working on this research topic.

From more than 50 submissions, the Program Committee selected 36 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, especially in the computer security field. The workshop program and this volume were enriched by two invited talks given by Shai Avidan (Tel Aviv University, Israel), and Nicolò Cesa-Bianchi (University of Milan, Italy).

This 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 2011 Program Committee and to the reviewers, whose expertise was instrumental for selecting contributions that could characterize the progress made in the field over the last years and could aspire to chart its future research. The management of the papers, including the preparation of this proceedings volume, was done by the EasyChair conference management system.

A special thank goes to the members of the Local Organizing Committee, Francesco Gargiulo, Emanuela Marasco, Claudio Mazzariello and Vincenzo Paduano for their valuable contributions to the organization, and their availability to solve the practical problems arising during the preparation of MCS 2011. We also want to thank Giorgio Fumera who managed the MCS website.

This workshop was organized by the Department of Computer and Systems Engineering of the University of Naples Federico II, Italy, the Center for Vision, Speech and Signal Processing, University of Surrey, UK, and the Department of Electrical and Electronic Engineering of the University of Cagliari, Italy.

This MCS edition was included in the list of events celebrating the bicentenary of the School of Engineering of the University of Naples Federico II. We thank the International Association for Pattern Recognition (IAPR) and the Italian group of researchers affiliated to the IAPR (GIRPR) for endorsing MCS 2011.

We finally wish to express our appreciation to our financial sponsors: Nettuno Solutions, Ericsson Telecomunicazioni and the AIRobots European Project – 7FP.

June 2011

Carlo Sansone
Joseph Kittler
Fabio Roli

Organization

MCS 2011 was organized by the Department of Computer Engineering and Systems (DIS) of the University of Naples Federico II (Italy), in association with the Center for Vision, Speech and Signal Processing (CVSSP), University of Surrey, UK and the Department of Electrical and Electronic Engineering (DIEE) of the University of Cagliari, Italy.

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Table of Contents

Invited Papers

Ensemble Methods for Tracking and Segmentation (Abstract) 1
Shai Avidan

Ensembles and Multiple Classifiers: A Game-Theoretic View 2
Nicolò Cesa-Bianchi

Classifier Ensembles I

Anomaly Detection Using Ensembles 6
Larry Shoemaker and Lawrence O. Hall

Learning to Rank with Nonlinear Monotonic Ensemble 16
Nikita Spirin and Konstantin Vorontsov

A Bayesian Approach for Combining Ensembles of GP Classifiers 26
C. De Stefano, F. Fontanella, G. Folino, and A. Scotto di Freca

Classifier Ensembles II

Multiple Classifiers for Graph of Words Embedding 36
Jaume Gibert, Ernest Valveny, Oriol Ramos Terrades, and Horst Bunke

A Dynamic Logistic Multiple Classifier System for Online Classification 46
Amber Tomas

Ensemble Methods for Reinforcement Learning with Function Approximation 56
Stefan Faußer and Friedhelm Schwenker

Trees and Forests

GRASP Forest: A New Ensemble Method for Trees 66
José F. Diez-Pastor, César García-Osorio, Juan J. Rodríguez, and Andrés Bustillo

Ensembles of Decision Trees for Imbalanced Data 76
Juan J. Rodríguez, José F. Díez-Pastor, and César García-Osorio

Compact Ensemble Trees for Imbalanced Data 86
Yubin Park and Joydeep Ghosh

One-Class Classifiers

Pruned Random Subspace Method for One-Class Classifiers 96
Veronika Cheplygina and David M.J. Tax

Approximate Convex Hulls Family for One-Class Classification 106
Pierluigi Casale, Oriol Pujol, and Petia Radeva

Multiple Kernels

Generalized Augmentation of Multiple Kernels 116
Wan-Jui Lee, Robert P.W. Duin, and Marco Loog

A Modified Neutral Point Method for Kernel-Based Fusion of Pattern-Recognition Modalities with Incomplete Data Sets 126
Maxim Panov, Alexander Tatarchuk, Vadim Mottl, and David Windridge

Two-Stage Augmented Kernel Matrix for Object Recognition 137
Muhammad Awais, Fei Yan, Krystian Mikolajczyk, and Josef Kittler

Multiple Kernel Learning via Distance Metric Learning for Interactive Image Retrieval 147
Fei Yan, Krystian Mikolajczyk, and Josef Kittler

Classifier Selection

Dynamic Ensemble Selection for Off-Line Signature Verification 157
Luana Batista, Eric Granger, and Robert Sabourin

Classifier Selection Approaches for Multi-label Problems 167
Ignazio Pillai, Giorgio Fumera, and Fabio Roli

Selection Strategies for pAUC-Based Combination of Dichotomizers 177
Maria Teresa Ricamato, Mario Molinara, and Francesco Tortorella

Sequential Combination

Sequential Classifier Combination for Pattern Recognition in Wireless Sensor Networks 187
Janos Csirik, Peter Bertholet, and Horst Bunke

Multi-class Multi-scale Stacked Sequential Learning 197
Eloi Puertas, Sergio Escalera, and Oriol Pujol

ECOC

A Comparison of Random Forest with ECOC-Based Classifiers 207
R.S. Smith, M. Bober, and T. Windeatt

Two Stage Reject Rule for ECOC Classification Systems 217
Paolo Simeone, Claudio Marrocco, and Francesco Tortorella

Introducing the Separability Matrix for Error Correcting Output Codes Coding 227
Miguel Ángel Bautista, Oriol Pujol, Xavier Baró, and Sergio Escalera

Diversity

Improving Accuracy and Speed of Optimum-Path Forest Classifier Using Combination of Disjoint Training Subsets 237
Moacir P. Ponti-Jr. and João P. Papa

Analyzing the Relationship between Diversity and Evidential Fusion Accuracy 249
Yaxin Bi

Clustering

Classification by Cluster Analysis: A New Meta-Learning Based Approach 259
Anna Jurek, Yaxin Bi, Shengli Wu, and Chris Nugent

C^3E: A Framework for Combining Ensembles of Classifiers and Clusterers 269
A. Acharya, E.R. Hruschka, J. Ghosh, and S. Acharyya

A Latent Variable Pairwise Classification Model of a Clustering Ensemble 279
Vladimir Berikov

CLOOSTING: CLustering Data with bOOSTING 289
F. Smeraldi, M. Bicego, M. Cristani, and V. Murino

Biometrics

A Geometric Approach to Face Detector Combining 299
Nikolay Degtyarev and Oleg Seredin

Increase the Security of Multibiometric Systems by Incorporating a Spoofing Detection Algorithm in the Fusion Mechanism 309
Emanuela Marasco, Peter Johnson, Carlo Sansone, and Stephanie Schuckers

Cohort Based Approach to Multiexpert Class Verification 319
Josef Kittler, Norman Poh, and Amin Merati

Computer Security

A Modular Architecture for the Analysis of HTTP Payloads Based on Multiple Classifiers 330
Davide Ariu and Giorgio Giacinto

Incremental Boolean Combination of Classifiers 340
Wael Khreich, Eric Granger, Ali Miri, and Robert Sabourin

Bagging Classifiers for Fighting Poisoning Attacks in Adversarial Classification Tasks 350
Battista Biggio, Igino Corona, Giorgio Fumera, Giorgio Giacinto, and Fabio Roli

Using a Behaviour Knowledge Space Approach for Detecting Unknown IP Traffic Flows 360
Alberto Dainotti, Antonio Pescapé, Carlo Sansone, and Antonio Quintavalle

Author Index 371