



FINAL PROGRAM

<http://www.diee.unica.it/mcs>

E-mail: mcs2011.naples@gmail.com

June 15, Wednesday

8.30-9.15 Registration

9.15-9.30 Openings

9.30-10.30 Invited Talk (chair: J. Kittler)

- S. Avidan, *Ensemble Methods for Tracking and Segmentation*

10.30-10.55 Coffee Break

10.55-12.10 Classifier Ensembles (chair: L.O. Hall)

- C. De Stefano, F. Fontanella, G. Folino and A. Scotto Di Freca, *A Bayesian Approach for combining ensembles of GP classifiers*

- J. Gibert, E. Valveny, O. Ramos Terrades and H. Bunke, *Multiple Classifiers for Graph of Words Embedding*

- A. Tomas, *A Dynamic Logistic Multiple Classifier System for Online Classification*

12.10-13.00 One-class classifiers (chair: H. Bunke)

- V. Cheplygina and D.M.J. Tax, *Pruned Random Subspace Method for One-Class Classifiers*

- P. Casale, O. Pujol and P. Radeva, *Approximate Convex Hulls Family for One-Class Classification*

13.00-14.30 Lunch

14.30-15.45 Trees and Forests (chair D.M.J. Tax)

- J.F. Díez-Pastor, C. García-Osorio, J.J. Rodríguez and A. Bustillo, *GRASP Forest:*

A New Ensemble Method for Trees

- J.J. Rodríguez, J.F. Díez-Pastor and C.

García-Osorio, *Ensembles of Decision Trees for Imbalanced Data*

- Y. Park and J. Ghosh, *Compact Ensemble Trees for Imbalanced Data*

15.45-16.10 Coffee Break

16.10-18.10 Poster session

- L. Shoemaker and L.O.Hall, *Anomaly Detection using Ensembles*

- N. Spirin and K. Vorontsov, *Learning to Rank with Nonlinear Monotonic Ensemble*

- S. Faußer and F. Schwenker, *Ensemble Methods for Reinforcement Learning with Function Approximation*

- M.P. Ponti-Jr. and J.P. Papa, *Improving accuracy and speed of Optimum-Path Forest classifier using combination of disjoint training subsets*

- Y. Bi, *Analyzing the Relationship between Diversity and Evidential Fusion Accuracy*

- W.-J. Lee, R.P.W. Duin and M. Loog, *Generalized Augmentation of Multiple Kernels*

- V. Berikov, *A latent variable pairwise classification model of a clustering ensemble*

- N. Degtyarev and O. Seredin, *A Geometric Approach to Face Detector Combining*

- A. Dainotti, A. Pescapè, C. Sansone and A. Quintavalle, *Using a Behaviour Knowledge Space Approach for Detecting Unknown IP Traffic Flows*

18.30 Welcome Cocktail@Congress Centre



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June 16, Thursday

9.30-10.30 Invited Talk (chair: F. Roli)

- N. Cesa-Bianchi, *Ensembles and Multiple Classifiers: A Game-Theoretic View*

10.30-10.55 Coffee Break

10.55-12.10 Multiple Kernels (chair: T. Windeatt)

- M. Panov, A. Tatarchuk, V. Mottl and D. Windridge, *A modified neutral point method for kernel-based fusion of pattern-recognition modalities with incomplete data sets*

- M. Awais, F. Yan, K. Mikolajczyk and J. Kittler, *Two-stage Augmented Kernel Matrix for Object Recognition*
- F. Yan, K. Mikolajczyk and J. Kittler, *Multiple Kernel Learning via Distance Metric Learning for Interactive Image Retrieval*

12.10-13.00 Sequential Combination (chair: F. Tortorella)

- J. Csirik, P. Bertholet and H. Bunke, *Sequential Classifier Combination for Pattern Recognition in Wireless Sensor Networks*
- E. Puertas, S. Escalera and O. Pujol, *Multi-class Multi-scale Stacked Sequential Learning*

13.00-14.30 Lunch

14.30-15.45 Classifier Selection (chair: P. Kegelmeyer)

- L. Batista, E. Granger and R. Sabourin, *Dynamic Ensemble Selection for Off-Line Signature Verification*
- I. Pillai, G. Fumera and F. Roli, *Classifier Selection Approaches for Multi-label Problems*
- M.T. Ricamato, M. Molinara and F. Tortorella, *Selection Strategies for pAUC-based Combination of Dichotomizers*

15.45-16.10 Coffee Break

16.10-17.25 ECOC (chair: D. Windridge)

- R.S. Smith, M. Bober and T. Windeatt, *A Comparison of Random Forest with ECOC-Based Classifiers*
- P. Simeone, C. Marrocco and F. Tortorella, *Two Stage Reject Rule for ECOC Classification Systems*
- M.A. Bautista, O. Pujol, X. Barò and S. Escalera, *Introducing the Separability Matrix for Error Correcting Output Codes coding*

18.00 Guided Tour to Castel dell'Ovo

19.30 Social Dinner @ La Bersagliera Restaurant





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June 17, Friday

9.15-10.30 Clustering (chair: G. Brown)

- A. Jurek, Y. Bi, S. Wu and C. Nugent, *Classification by Cluster Analysis: A New Meta-Learning Based Approach*
- A. Acharya, E.R. Hruschka, J. Ghosh and S. Acharyya, *C3E: A Framework for Combining Ensembles of Classifiers and Clusterers*
- F. Smeraldi, M. Bicego, M. Cristani and V. Murino, *CLOOSTING: CLustering data with BOOSTING*

10.30-10.55 Coffee Break

10.55-11.45 Biometrics (chair: J. Ghosh)

- E. Marasco, P. Johnson, C. Sansone and S. Schuckers, *Increase the security of multibiometric systems by incorporating a spoofing detection algorithm in the fusion mechanism*
- J. Kittler, N. Poh and A. Merati, *Cohort based approach to multiexpert class verification*

11.45-13.00 MCS Quiz

13.00-14.30 Lunch

14.30-15.45 Computer Security (chair J.J. Rodriguez)

- D. Ariu and G. Giacinto, *A modular architecture for the analysis of HTTP payloads based on Multiple Classifiers*
- W. Khreich, E. Granger, A. Miri and R. Sabourin, *Incremental Boolean Combination of Classifiers*
- B. Biggio, I. Corona, G. Fumera, G. Giacinto and F. Roli, *Bagging Classifiers for Fighting Poisoning Attacks in Adversarial Classification Tasks*

15.45-16.10 Coffee Break

16.10 Closing



Department of Computer Engineering and Systems
Univ. of Naples Federico II



Center for Vision, Speech and Signal Processing
University of Surrey



Department of Electrical and Electronic Engineering
University of Cagliari