Review on boosting algorithms

Vu Tuan Hung and Do Quoc Khanh 8 mai 2012

1 Introduction

- 2 Two-class classification
- 2.1 Boosting and optimization in function space
- 2.2 One-degree optimization
- 2.3 Two-degree optimization
- 3 Multi-class classification and some generalizations
- 3.1 A traditional approach
- 3.2 Some generalization of two-class algorithms
- 3.3 Other generalizations
- 4 Experiments
- 4.1 Experiments with simulated data
- 4.2 Experiments with real data
- 5 Conclusion

Références

- [1] Friedman, J., Hastie, T. & Tibshirani, R. Additive Logistic Regression : a Statistical View of Boosting, 1999.
- [2] Friedman, J. Greedy Function Approximation: A Gradient Boosting Machine, IMS 1999 Reitz Lecture, 1999.
- [3] Schapire, R.E. & Singer, Y. Improved Boosting Algorithms: Using Confidence-rated Predictions, 1998.