Preface

This volume contains papers presented at the joint 16th Annual Conference on Learning Theory (COLT) and the 7th Annual Workshop on Kernel Machines, held in Washington, DC, USA, during August 24–27, 2003. COLT, which recently merged with EuroCOLT, has traditionally been a meeting place for learning theorists. We hope that COLT will benefit from the collocation with the annual workshop on kernel machines, formerly held as a NIPS postconference workshop.

The technical program contained 47 papers selected from 92 submissions. All 47 papers were presented as posters; 22 of the papers were additionally presented as talks. There were also two target areas with invited contributions. In computational game theory, a tutorial entitled “Learning Topics in Game-Theoretic Decision Making” was given by Michael Littman, and an invited paper on “A General Class of No-Regret Learning Algorithms and Game-Theoretic Equilibria” was contributed by Amy Greenwald. In natural language processing, a tutorial on “Machine Learning Methods in Natural Language Processing” was presented by Michael Collins, followed by two invited talks, “Learning from Uncertain Data” by Mehryar Mohri and “Learning and Parsing Stochastic Unification-Based Grammars” by Mark Johnson.

In addition to the accepted papers and invited presentations, we solicited short open problems that were reviewed and included in the proceedings. We hope that reviewed open problems might become a new tradition for COLT. Our goal was to select simple signature problems whose solutions are likely to inspire further research. For some of the problems the authors offered monetary rewards. Yoav Freund acted as the open problem area chair. The open problems were presented as posters at the conference.

The Mark Fulk award is presented annually for the best paper contributed by a student. This year’s award was won by Ulrike von Luxburg for the paper “Distance-Based Classification with Lipschitz Functions” (co-authored with Olivier Bousquet). Owing to generous support from the Journal of Machine Learning, we were able to award two second prizes for the best student paper. They went to Gilles Stoltz, “Internal Regret in On-line Portfolio Selection” (co-authored with Gabor Lugosi), and Petra Philips, “Random Subclass Bounds” (co-authored with Shahar Mendelson).

We thank all the people and organizations who helped make this conference successful. We are especially grateful to the program committee for their efforts in evaluating and selecting the papers in this volume:
The program committee solicited the help of the following reviewers. We obtained at least two independent reviews for each paper in addition to the reviews and discussions carried out by the program committee:

Naoki Abe
Dana Angluin
Peter Auer
Peter Bartlett
Satinder Baveja
Jonathan Baxter
Amos Beimel
Shai Ben-David
Yoshua Bengio
Gilles Blanchard
Stephane Boucheron
Olivier Bousquet
Nader Bshouty
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Philip Long
Fernando Lozano
Gabor Lugosi
Ulrike von Luxburg
Olvi Mangasarian
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