

Risque garanti pour les modèles de discrimination multi-classes

André Elisseeff, Hélène Paugam-Moisy, Yann Guermeur

► **To cite this version:**

André Elisseeff, Hélène Paugam-Moisy, Yann Guermeur. Risque garanti pour les modèles de discrimination multi-classes. Septième journées de la Société Francophone de Classification - SFC'99, Loria, Sep 1999, Nancy, France, pp.111-118. inria-00098773

HAL Id: inria-00098773

<https://hal.inria.fr/inria-00098773>

Submitted on 26 Sep 2006

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

- [Haussler et Long, 1995] D. Haussler et P.M. Long. A Generalization of Sauer's Lemma. *Journal of Combinatorial Theory, Series A*, 71:219–240, 1995.
- [Haussler, 1992] D. Haussler. Decision theoretic generalizations of the PAC model for neural net and other learning applications. *Information and Computation*, 100:78–150, 1992.
- [Lee et al., 1995] W.S. Lee, P.L. Bartlett et R.C. Williamson. Lower bounds on the VC dimension of smoothly parameterized function classes. *Neural Computation*, 7:1040–1053, 1995.
- [Natarajan, 1989] B.K. Natarajan. On learning sets and functions. *Machine Learning*, 4:67–97, 1989.
- [Pollard, 1984] D. Pollard. *Convergence of stochastic processes*. Springer-Verlag, N.Y., 1984.
- [Pollard, 1990] D. Pollard. Empirical processes: Theory and applications. Dans *NFS-CBMS Regional Conference Series in Probability and Statistics*, volume 2. Institute of Math. Stat. and Am. Stat. Assoc., 1990.
- [Sakurai, 1993] A. Sakurai. Tighter bounds of the VC-dimension of three-layer networks. Dans *WCNN'93*, pages 540–543, 1993.
- [Shawe-Taylor et Anthony, 1991] J. Shawe-Taylor et M. Anthony. Sample sizes for multiple-output threshold networks. *Network: Computation in Neural Systems*, 2:107–117, 1991.
- [Vapnik et Chervonenki, 1981] V.N. Vapnik et A.Ya. Chervonenki. Necessary and sufficient conditions for the uniform convergence of the means to their expectations. *Theory of Probability and its Applications*, 26:532–553, 1981.
- [Vapnik et Chervonenkis, 1971] V.N. Vapnik et A.Ya. Chervonenkis. On the uniform convergence of relative frequencies of events to their probabilities. *Theory of Probability and its Applications*, 16:264–280, 1971.
- [Vapnik, 1982] V.N. Vapnik. *Estimation of dependences based on empirical data*. Springer-Verlag, N.Y., 1982.
- [Vapnik, 1998] V.N. Vapnik. *Statistical learning theory*. John Wiley & Sons, Inc., N.Y., 1998.
- [Weston et Watkins, 1998] J. Weston et C. Watkins. Multi-class Support Vector Machines. Rapport Technique CSD-TR-98-04, Royal Holloway, University of London, Department of Computer Science, 1998.