CV

Gábor Lugosi
February, 2011.

ICREA research professor
Department of Economics,
Pompeu Fabra University
Ramon Trias Fargas 25–27,
08005 Barcelona, Spain
phone: (34) 93-542-2766
fax: (34) 93-542-1746
email: `lugosi@upf.es`

- **Birth:** July 13, 1964; Budapest, Hungary

- **Home address:** Marti Molins 10.1, Barcelona 08027
  phone: (34)-93-352-6273

- **PREVIOUS OCCUPATION:**
  Associate professor
  Department of Mathematics and Computer Science,
  Technical University of Budapest, Hungary
  1991–1996

- **ADMINISTRATIVE TASK:** Vice dean for academic affairs, Facultat d'Economia
  i Empresa, Universitat Pompeu Farba, 2000-2005

- **EDUCATION:**

  1. Ph.D. (1991) in Electrical Engineering, from the *Hungarian Academy of Sciences.*
     Thesis title: "Statistical Pattern Recognition Under Unreliable Circumstances,"

  2. M.S. (1987) in Electrical Engineering, from the *Technical University of Budapest, Hungary.*
     Thesis title: "Algorithmic Problems of Isolated Word Recognition."

- **VISITING POSITIONS, SCHOLARSHIPS:**

  1. Visiting professor at the Ecole Normale Superieure, Cachan (February, 2011).

  2. Visiting professor at the Ecole Normale Superieure, Cachan (February, 2010).

  3. Visiting professor at the Ecole Normale Superieure, Cachan (February, 2009).

  4. Visiting professor at the Department of Mathematics, Université Paris 7 (February, 2008).

  5. Visiting professor at the Department of Mathematics, Université Paris-Sud, Orsay (February, 2007).

  6. Visiting professor at the School of Computer Science, McGill University, Montreal, Canada (Sept. 2005-Aug.2006).

7. Visiting researcher at the Department of Mathematics, Université Paris X, Nanterre (February, 2004).

8. Visiting lecturer at ENSAE, Paris (February, 2003).

9. Visiting lecturer at "2001, l'Odyssée de la Statistique", Centre Émile Borel, Institut Henri Poincaré, Paris (February-May, 2001)

10. Visiting researcher at the Department of Computer Science, Université Paris-Sud, Orsay, (January, March, 2000).

11. Visiting researcher at the Department of Mathematics, Université Paris-Sud, Orsay, (January, 1999).

12. Visiting researcher at the Coordinated Science Laboratory, University of Illinois at Urbana-Champaign, (April-June, 1995; March-May, 1994; July 1992-May 1993).

13. Post-doctoral fellow at Concordia University, Montreal, Canada, (January-March 1992).

14. Post-doctoral fellow at the University of Manitoba, Winnipeg, Canada (December 1991-January 1992).

15. Visiting researcher at the Technical University of Vienna, Austria (April-June 1991).

16. Visiting research assistant at the Catholic University of Leuven, Belgium, (April-May 1990).

17. Visiting research assistant at the Northeastern University, Boston (October 1989-January 1990).

18. Scholarship awarded by the Hungarian Academy of Sciences; Teaching and Research Assistant at the Technical University of Budapest; Hungary (1987-1990)

- **MAIN RESEARCH INTERESTS:** pattern classification, nonparametric statistics, information theory, computational learning theory, inequalities in probability, learning in repeated games.

- **TEACHING EXPERIENCE:** supervision of Masters and Ph.D. students; graduate and undergraduate courses in Hungarian, English, ans Spanish in Calculus; Data Transmission; Information Theory; Pattern Recognition; Coding Theory; Prediction, Learning, and Games; Probability; Real Analysis; Optimization; Probabilistic Analysis of Algorithms; and Digital Speech Processing.

- **AWARDS:**

  - *"Medallion lecturer."* Award given by the IMS, 2009.
  - *"Le Cam lecturer."* Award given by the French Statistical Society, 2004.
  - *"Distinció de la Generalitat per a la Promoció de la Recerca Universitària"*, Distinction for young researchers of the Government of Catalonia, 2000.

- **EDITORSHIPS:**

  - Associate editor of *Scandinavian Journal of Statistics*, 2010–.
  - Member of the editorial board of *Foundations and Trends in Machine Learning*, 2007–
  - Member of the editorial board of *Machine Learning Journal*, 2006–
  - Member of editorial committee of the *Buttletí de la Societat Catalana de Matemátiques*, 2006–.
  - Member of the advisory board of *International Journal of Statistics and Management Systems*, 2006–
  - Guest editor of *Machine Learning Journal*, Special issue on COLT 2006, published in December, 2007 (with Hans Simon and Avrim Blum).
  - Guest editor of *Constructive Approximation*, Special issue on Mathematical Learning Theory, August, 2007. (with Ronald DeVore).
  - Guest editor of *Theoretical Computer Science*, Special issue on Algorithmic Learning Theory, 2010. (with Sandra Zilles).
  - Action editor of *Journal of Machine Learning Research*, 2005–,
  - Associate editor of *ESAIM:Probability and Statistics*, 2005–.
  - Associate editor of *Statistics and Decisions*, 2002–.
  - Associate editor of *Test*, 2001–.
  - Associate editor of the *IEEE Transactions on Information Theory*, for Nonparametric Estimation, Classification, and Neural Networks, 1999–2002.

- **CONFERENCE ORGANIZATION, PROGRAM COMMITEES:**

  - Member of the program committee of ALT'10: 21st International Conference on Algorithmic Learning Theory, Canberra, Australia, 2010.
  - Member of the program committee of COLT'10: 23nd Annual Conference on Learning Theory, Haifa, Israel, 2010.
  - Session organizer on "Interface between probability and statistics" at XI CLAPEM, Naiguatá, Venezuela, 2009.
  - Co-organizer of meeting on "Advances in Stochastic Inequalities and their Applications" at the Banff International Research Station, Banff, Canada, June 7–12, 2009.
  - Co-chairman of the Program Committee of ALT'09: the 20th International Conference on Algorithmic Learning Theory, Porto, 2009.
  - Member of the program committee of COLT'09: 22nd Annual Conference on Learning Theory, Montral, Canada, 2009.
  - Member of the program committee of ISIT 2009 (International Symposium on Information Theory).

- Member of the scientific committee of ISNI 2008: International Seminar on Nonparametric Inference, Vigo, Spain, 2008.
- Member of the program committee of ALT'08: Algorithmic Learning Theory, Budapest, Hungary, 2008.
- Workshop organizer (together with N. Cesa-Bianchi) on Learning Theory at the conference Foundations of Computational Mathematics, Hong Kong, China, 2008.
- Session organizer on "Nonparametric learning" at the conference on Probability and Statistics in Science and Technology, Porto, Portugal, 2007.
- Member of the program committee of CCIA 2007: Desè Congrés Internacional de l'Associació Catalana d'Intel.ligència Artificial, Andorra;
- Member of the program committee of COLT'07: Twentienth Annual Conference on Learning Theory, San Diego, California, 2007;
- Co-chairman of the Program Committee of COLT'06: the 19th Annual Conference on Learning Theory, Pittsburgh, 2006.
- Session organizer on "Applications of Concentration Inequalities" at the 2006 International Workshop on Applied Probability, Department of Statistics, University of Connecticut, May 15 - 18, 2006.
- Member of the program committee and special session organizer of the IEEE Information Theory Workshop, Punta del Este, Uruguay, March 13-17, 2006.
- Co-organizer of Oberwolfach workshop "Statistical and probabilistic methods of model selection," October 16th - October 22nd, 2005.
- Member of the program committee of the International seminar on nonparametric inference (ISNI 2005) A Corua, Spain, July 13-15, 2005.
- Main coordinator of the meeting Mathematical Foundations of Learning Theory organized by the Centre de Recerca Matemàtica, Barcelona, 2004.
- Member of the program committee of COLT'97: Tenth Annual Conference on Computational Learning Theory, Nashville, Tennessee, 1997;
- Member of the program committee of COLT'02: Fifteenth Annual Conference on Computational Learning Theory, Sidney, Australia;
- Member of the program committee of COLT'05: Eighteenth Annual Conference on Learning Theory, Bertinoro, Italy;
- Member of the program committee of EUROCOLT'99: 4th European Conference on Computational Learning Theory, Dortmund, Germany, 1999;
- Member of the program committee of COMB'2001: Euroconference on Combinatorics, Graph Theory, and Applications, Barcelona, 2001.
- Member of the program committee of ALT'99: Tenth International Workshop on Algorithmic Learning Theory, Tokyo, Japan, 1999;
- Member of the program committee of ALT'04: The 15th International Conference on Algorithmic Learning Theory Padova University, Padova, Italy, 2004.

- Member of the program committee of SNRFAI'99: 8th Spanish National Symposium on Pattern Recognition and Image Analysis, Bilbao, 1999;

- Member of the program committee of IAPR international workshop on Statistical Pattern Recognition (SPR 2000), Alicante, 2000;

- *Member* of the steering committee of COLT conferences, 2001–2004.

- *Elected member* of the steering committe of EuroCOLT conferences, 1997. *Chair* of the committee 1999-2001.

- Organized an invited session at the 25th European Meeting of Statisticians in Oslo, Norway, 2005.

- Co-organized an invited session on Classification at the IEEE Information Theory Workshop on Detection, Estimation, Classification, and Imaging in Santa Fe, New Mexico, 1999.

- **PRIZE COMMITTEES:**
  - Member of the "Comisión de Evaluación de Proyectos del Plan Nacional de Investigación Científica, Desarrollo e Innovación Tecnológica, Área de Matemáticas", 2002.
  - Member of the Spanish national committee for awarding Ramon y Cajal scholarships in mathematics, September, 2001.
  - Member of the Committee of best paper prize of the IEEE Information Theory Society, 2001

- **REVIEWING FOR JOURNALS:** Algorithmica; Annales de l'Institut Henri Poincaré, Probability and Statistics; Annales de l'ISUP; Annals of Applied Probability; Annals of Mathematics and Artificial Intelligence; Annals of Probability; Annals of the Institute of Statistical Mathematics; Annals of Statistics; Bernoulli; Boletín de la Asociación Matemática Venezolana; Canadian Journal of Statistics; Computational Statistics and Data Analysis; Discrete Applied Mathematics; Discrete Mathematics; Econometrica; Electronic Communications in Probability; Electronic Journal of Statistics; Foundations of Computational Mathematics; IEEE Transactions on Information Theory; IEEE Transactions on Neural Networks; IEEE Transactions on Pattern Analysis and Machine Intelligence; IEEE Transactions on Signal Processing; IEEE Transactions on System, Man, and Cybernetics; Information and Computation; International Journal of Biostatistics; International Journal of Game Theory; JASA (Applications and Case Studies); Journal of the American Mathematical Society; Journal of Complexity; Journal of Computer and System Sciences; Journal of Machine Learning Research; Journal of Multivariate Analysis; Journal of Nonparametric Statistics; Journal of Statistical Planning and Inference; Journal of the Royal Statistical Society, Series B; Knowledge and Information Systems (KAIS): An International Journal; Mathematics of Operations Research; Machine Learning; Neural Computation; Neural Networks; Pattern Recognition Letters; Probability Theory and Related Fields; Proceedings of the AMS; Random Structures and Algorithms; Review of Economic Studies; SIAM Journal of Computing; Systems and Control Letters; Statistics; Statistics and Decisions; Stochastic Processes and Applications; Theoretical Computer Science;

- **REVIEWING FOR SCIENCE FOUNDATIONS:**
  - FONDECYT-Chile;
  - Agence Nationale de la Recherche (France);
  - National Science Foundation;
  - Israel Science Foundation;
  - Spanish Ministry of Science and Technology; (Member of committee for "Ramon y Cajal" scholarships for mathematics, 2001; Member of national committee for assigning scientific projects, 2002.)
  - NWO (Dutch science foundation)
  - Agència de Gestió d'Ajuts Universitaris i de Recerca (Catalan scientific evaluation agency)

- **REVIEWING FOR CONFERENCES:**
    - STOC 2007,2010. Bernoulli 2004, COLT'97, COLT'98, COLT'2000,2002,2003,2004,2005,2006,2007 EUROCOLT'97, EUROCOLT'99, FOCS'02, ICALP'04, IEEE International Symposium on Information Theory, 1997, 1998, 2000, NIPS'97, NIPS'98, NIPS'99, NIPS'2000, NIPS'2001, NIPS'2002, ALT'99, VIII. NSPRIA, Uncertainty in AI 2003,

- **GRADUATE COURSES, SUMMER SCHOOLS:**
    - Short course on Prediction, Learning, and Games, presented at the graduate program of Ecole Normale Superieure, Cachan, February, 2011.
    - Short course on Prediction, Learning, and Games, presented at the graduate program of Ecole Normale Superieure, Cachan, February, 2010.
    - Short course on Prediction, Learning, and Games, presented at the graduate program of Ecole Normale Superieure, Cachan, February, 2009.
    - Short course on Prediction, Learning, and Games, presented at the doctorate program of ENSAE, Paris, February, 2008.
    - Short course on Prediction, Learning, and Games, jointly presented with N. Cesa-Bianchi, at the 8th Max-Planck Advanced Course on the Foundations of Computer Science (ADFOCS), Saarbrücken, Germany, September, 2007.
    - Short course on Prediction, Learning, and Games, jointly presented with N. Cesa-Bianchi, Ecole Normale Superiore Paris, February, 2007.
    - Short course on Statistical Learning Theory presented at the IX Escuela de Probabilidad y Estadística, CIMAT, Guanajuato, Mexico, January 22-26, 2007.
    - Short course on Concentration Inequalities presented at the Workshop de Combinatria e Concentrao de Medida IMPA, Rio de Janeiro, February 23-25, 2005.
    - Short course on Concentration Inequalities presented at the Winter School - Probabilistic Methods in High Dimension Phenomena, Toulouse, January 10-14, 2005.
    - A course on Statistical Learning Theory presented in the Ph.D. program of Statistics at the Universidad de Valladolid, April 2004.
    - Short course on Statistical Learning Theory presented in the "Programa de doctorado interuniversitario: estadística e investigación operativa", Universidade da Coruña, April, 2004.
    - Short course on Statistical Learning Theory presented at the Université Paris X, Nanterre, February, 2003.
    - Short course on Concentration Inequalities presented at the Workshop on Combinatorics, Probability, and Algorithms, CRM, Montreal, May 2003.
    - Short course on Statistical Learning Theory presented in the "Programa de doctorado interuniversitario: estadística e investigación operativa", Universidad de Vigo, April, 2003.
    - Short course on Statistical Learning Theory presented at the doctorate program of ENSAE, Paris, March-April, 2003.

- Short course on Concentration Inequalities presented at the *Machine Learning Summer School 2003*, Australian National University, Canberra, Australia, February 2–14, 2003.
- Short course on Statistical Learning Theory presented in the "Programa de doctorado interuniversitario: estadística e investigación operativa", Universidad de Vigo, April, 2002.
- Short course on Statistical Learning Theory presented at the summer course Principles of Nonparametric Learning held at the CISM International Centre for Mechanical Sciences, Udine, Italy, July 9-13, 2001.
- Short course on Statistical Learning Theory presented in the "Programa de doctorado interuniversitario: estadística e investigación operativa", Universidade da Coruña, June, 2001.
- Course on Prediction of Individual Sequences presented at "2001, l'Odyssée de la Statistique", Centre Émile Borel, Institut Henri Poincaré, Paris, February–May, 2001.
- Short course on Statistical Learning Theory presented at the 23rd Finnish Summer School on Probability Theory, Lahti, Finland, June 5–9, 2000.
- Short course on Statistical Learning Theory presented at the Garchy Seminar on Mathematical Statistics and Applications: Statistical Learning, Mathematical Genetic and Pollution Data, August 27–September 1, 2000.

- **INVITED TALKS AT UNIVERSITIES AND RESEARCH INSTITUTES:**

  - Cambridge University, Statistical Laboratory;
  - Université de Bordeaux I;
  - Technion, Haifa;
  - Université de Montréal;
  - University of Zurich;
  - Seminaire Hypathie, Marseille;
  - INRIA, Lille;
  - Institue Henri Poincaré, Paris; (three times)
  - University of Pennsylvania;
  - Georgia Tech, Atlanta;
  - Carleton University, Ottawa;
  - BCN Jocs, Barcelona game theory seminar;
  - Technical University of Budapest; (twice)
  - Universidad de Santiago de Compostela;
  - Université Paris 6; (twice)
  - CRM, Université de Montréal;
  - Mathematical Research Institute, Budapest;

- McGill University, Montreal; (three times)
- Chinese University of Hong Kong;
- *Stochastics Meeting Lunteren*, Lunteren, Holland;
- École Normale Supérieure, Paris (three times);
- Army Research Laboratory, Adelphi, MD (Distinguished lecturer);
- University of Maryland, College Park;
- Queen's University, Kingston; (three times)
- Université Paris-Sud; (three times)
- Universidade da Coruña;
- Universidad del Pais Vasco, Bilbao;
- University of California, San Diego;
- Universidad de Barcelona (three times);
- Universidad Carlos III; (twice)
- Universitat Politecnica Catalunya (seven times);
- Universitat Autonoma de Barcelona (twice);
- Princeton University (twice);
- University of North Carolina at Chapel Hill,
- University of Illinois at Champaign-Urbana (three times);
- University of Manitoba;
- Concordia University;
- University of Hawaii;
- IBM Thomas Watson Research Institute (twice);
- Boston University;
- Northeastern University.

- **PH.D. COMMITTEES:**
  - Universitat Pompeu Fabra;
  - Université Pierre et Marie Curie, Paris VI;
  - Queen's University, Kingston;
  - Australian National University;
  - Universidade de Santiago de Compostela;
  - Universidad Autonoma de Barcelona;
  - École Normale Supérieure, Paris (twice);
  - Universidad Carlos III (twice);
  - Universitat Politecnica Catalunya (five times);

- – Universite de Paris-Sud, Orsay (five times);
  - – Ecole Polytechnique, Paris (twice)
  - – Universidad Autonoma de Madrid

- **MEMBER OF JURY FOR AN "HABILITATION":**
  - – Université Paris-Sud
  - – Université Montpellier II
  - – Université Pierre et Marie Curie, Paris VI (twice)
  - – Université Paul Sabatier, Toulouse III

- **PH.D. STUDENTS:**
  - – Gilles Stoltz, Universite Paris-Sud, Orsay. May, 2005. Thesis title: "Information incomplète et regret interne en prédiction de suites individuelles."
  - – Márta Pintér, Technical University of Budapest, 2002. Co-supervised with L. Györfi.
  - – András Antos, Technical University of Budapest, 2000. Co-supervised with L. Györfi.

List of publications

Books:

1. R. Gavaldà, G. Lugosi, T. Zeugmann, and S. Zilles (Eds.) *Algorithmic Learning Theory. Proceedings of the 20th International Conference, ALT 2009.* Springer, New York, 2009.

2. N. Cesa-Bianchi and G. Lugosi *Prediction, Learning, and Games.* Cambridge University Press, 2006.

3. G. Lugosi and Hans Ulrich Simon, (Eds.) *Learning Theory. Proceedings of the 19th Annual Conference on Learning Theory, COLT 2006.* Springer, New York, 2006.

4. L. Devroye and G. Lugosi. *Combinatorial Methods in Density Estimation.* Springer-Verlag, New York, 2000.

5. L. Devroye, L. Györfi, and G. Lugosi. *A Probabilistic Theory of Pattern Recognition.* Springer-Verlag, New York, 1996.

6. T. Linder and G. Lugosi. *Introduction to Information Theory.* Technical University of Budapest, in Hungarian, 1990.

Papers in refereed journals:

1. G. Lugosi and S. Zilles. Preface. (An introduction to the special issue on ALT 2009.) *Theoretical Computer Science*, to appear, 2011.

2. I. Benjamini, S. Boucheron, G. Lugosi, and R. Rossignol. Sharp threshold for percolation on expanders. *Annals of Probability*, to appear, 2010.

3. G. Lugosi. Comment on: 1-penalization for mixture regression models. *Test*, 19:259-263, 2010.

4. G. Lugosi. Desigualtats de concentració. *Butlletí de la Societat Catalana de Matemàtiques*, 24:85-96, 2010.

5. L. Addario-Berry, N. Broutin, L. Devroye, and G. Lugosi. On combinatorial testing problems. *Annals of Statistics*, 38:30633092, 2010.

6. L. Addario-Berry, N. Broutin, and G. Lugosi. The longest minimum weight path in a complete graph. *Combinatorics, Probability, and Computing*, 19:1-19, 2010.

7. A. György, G. Lugosi, and Gy. Ottucsák. On-line sequential bin packing. *Journal of Machine Learning Research*, 11:89–109, 2010.

8. S. Boucheron, G. Lugosi, and P. Massart. On concentration of self-bounding functions. *Electronic Journal of Probability*, 14:18841899, 2009.

9. L. Devroye, G. Lugosi, and G. Park, and W. Szpankowski. Multiple choice tries. *Random Structures and Algorithms*, 34:337-367, 2009.

10. L. Addario-Berry, N. Broutin, and G. Lugosi. Effective resistance of random trees. *Annals of Applied Probability*, 19:1092-1107, 2009.

11. G. Biau, L. Devroye, and G. Lugosi. Consistency of random forests and other averaging classifiers. *Journal of Machine Learning Research*, 9:2015–2033, 2008.

12. G. Lugosi, S. Mannor, and G. Stoltz. Strategies for prediction under imperfect monitoring. *Mathematics of Operations Research*, 33:513–528, 2008.

13. A. György, T. Linder, and G. Lugosi. Tracking the best quantizer. *IEEE Transactions on Information Theory*, 54:1604–1625, 2008.

14. S. Clémençon, G. Lugosi, and N. Vayatis. Ranking and empirical minimization of U-statistics. *The Annals of Statistics*, 36:844–874, 2008.

15. L. Devroye and G. Lugosi. Local tail bounds for functions of independent random variables. *The Annals of Probability*, 36:143–159, 2008.

16. G. Biau, L. Devroye, and G. Lugosi. On the Performance of Clustering in Hilbert Spaces. *IEEE Transactions on Information Theory*, 54:781–790, 2008.

17. A. Blum, G. Lugosi, and H.U. Simon. Introduction to the special issue on COLT 2006. *Machine Learning*, 69:75–77, 2007.

18. A. György, T. Linder, G. Lugosi, and Gy. Ottucsák. The on-line shortest path problem under partial monitoring. *Journal of Machine Learning Research*, 8:2369–2403, 2007.

19. F. Germano and G. Lugosi, Global Nash convergence of Foster and Young's regret testing. *Games and Economic Behavior*, 60:135-154, 2007.

20. G. Stoltz and G. Lugosi, Learning correlated equilibria in games with compact sets of strategies. *Games and Economic Behavior*, 59:187-208, 2007.

21. F. Germano and G. Lugosi, Existence of sparsely supported correlated equilibria. *Economic Theory*, 32:575–578, 2007.

22. G. Lugosi. Prédiction randomisée de suites individuelles. *Journal de la Société Française de Statistique*, 147:5–37, 2006.

23. S. Clémençon, G. Lugosi, and N. Vayatis. Some comments on "Local Rademacher complexities and oracle inequalities in risk minimization" by Vladimir Koltchinskii. *The Annals of Statistics*, 2006, 34:2672–2676, 2006.

24. N. Cesa-Bianchi, G. Lugosi, and G. Stoltz, Regret minimization under partial monitoring. *Mathematics of Operations Research*, 31:562–580, 2006.

25. L. Györfi, G. Lugosi, and F. Udina. Nonparametric kernel-based sequential investment strategies. *Mathematical Finance*, 16:337–358, 2006.

26. S. Boucheron, O. Bousquet, and G. Lugosi. Theory of classification: a survey of recent advances. *ESAIM: Probability and Statistics*, 9:323–375, 2005.

27. R. Cao and G. Lugosi. Goodness-of-fit tests based on the kernel density estimate. *Scandinavian Journal of Statistics*, 32:599–617, 2005.

28. N. Cesa-Bianchi, G. Lugosi, and G. Stoltz. Minimizing regret with label efficient prediction. *IEEE Transactions on Information Theory*, 51:2152–2162, 2005.

29. S. Boucheron, O. Bousquet, G. Lugosi, and P. Massart. Moment inequalities for functions of independent random variables. *Annals of Probability*, 33:514–560, 2005.

30. G. Stoltz and G. Lugosi. Internal regret in on-line portfolio selection. *Machine Learning*, 59:125-159, 2005.

31. A. György, T. Linder, and G. Lugosi. Efficient Algorithms and Minimax Bounds for Zero-Delay Lossy Source Coding. *IEEE Transactions on Signal Processing*, 52:2337-2347, 2004.

32. L. Devroye and G. Lugosi. Bin width selection in multivariate histograms by the combinatorial method. *Test*, 13:1–17, 2004.

33. G. Lugosi and M. Wegkamp. Complexity regularization via localized random penalties. *Annals of Statistics*, 32:1679–1697, 2004.

34. G. Lugosi and N. Vayatis. On the Bayes-risk consistency of regularized boosting methods. *Annals of Statistics*, 32:30–55, 2004.

35. G. Lugosi, S. Mendelson, and V. Koltchinskii. A note on the richness of convex hulls of VC classes. *Electronic Communications in Probability*, 8:167–169, 2003.

36. G. Blanchard, G. Lugosi, and N. Vayatis. On the rate of convergence of regularized boosting classifiers. *Journal of Machine Learning Research*, 4:861-894, 2003.

37. S. Boucheron, G. Lugosi, and P. Massart. Concentration inequalities using the entropy method. *Annals of Probability*, 31:1583-1614, 2003.

38. N. Cesa-Bianchi and G. Lugosi. Potential-based algorithms in on-line prediction and game theory. *Machine Learning*, 51:239–261, 2003.

39. A. Antos, B. Kégl, T. Linder, and G. Lugosi. Data-dependent margin-based generalization bounds for classification. *Journal of Machine Learning Research*, 3:73–98, 2002.

40. P. Bartlett, S. Boucheron, and G. Lugosi. Model selection and error estimation. *Machine Learning*, 48:85–113, 2002.

41. L. Devroye, L. Györfi, and G. Lugosi. A note on robust hypothesis testing. *IEEE Transactions on Information Theory*, 48:2111–2114, 2002.

42. L. Devroye and G. Lugosi. Almost sure classification of densities. *Journal of Nonparametric Statistics*, 14:675–698, 2002.

43. N. Cesa-Bianchi and G. Lugosi. Worst-case bounds for the logarithmic loss of predictors. *Machine Learning*, 43(3):247-264, 2001.

44. T. Linder and G. Lugosi. A Zero-Delay Sequential Scheme for Lossy Coding of Individual Sequences. *IEEE Transactions on Information Theory*, 47:2533–2538, 2001.

45. S. Boucheron, G. Lugosi, and P. Massart. A sharp concentration inequality with applications. *Random Structures and Algorithms*, 16:277-292, 2000.

46. S. Kulkarni and G. Lugosi. Minimax lower bounds for the two-armed bandit problem." *IEEE Transactions on Automatic Control*, 45:711–714, 2000.

47. P. Bartlett and G. Lugosi. An inequality for uniform deviations of sample averages from their means. *Statistics and Probability Letters*, 44:55–62, 1999.

48. N. Cesa-Bianchi and G. Lugosi. On prediction of individual sequences. *Annals of Statistics*, 27(6):1865–1895, 1999.

49. L. Györfi, G. Lugosi, and G. Morvai. A simple randomized algorithm for consistent sequential prediction of ergodic time series. *IEEE Transactions on Information Theory*, 45:2642–2650, 1999.

50. G. Lugosi, A. Nobel. Adaptive Model Selection Using Empirical Complexities. *Annals of Statistics*, 27(6):1830-1864, 1999.

51. A. Antos and G. Lugosi. Strong minimax lower bounds for learning. *Machine Learning*, 30:31–56, 1998.

52. P. Bartlett and T. Linder and G. Lugosi. The minimax distortion redundancy in empirical quantizer design. *IEEE Transactions on Information Theory*, 44:1802–1813, 1998.

53. M. Horváth and G. Lugosi. A data-dependent skeleton estimate and a scale-sensitive dimension for classification. *Discrete Applied Mathematics*, Special Issue on the Vapnik-Chervonenkis dimension, 86:37–61, 1998.

54. S. Kulkarni, G. Lugosi, and S. Venkatesh. Learning Pattern Classification—A Survey. *IEEE Transactions on Information Theory*, 1948–1998 Special Commemorative Issue, 44:2178–2206, 1998.

55. L. Devroye and G. Lugosi. Nonasymptotic universal smoothing factors, kernel complexity, and Yatracos classes. *Annals of Statistics*, 25:2626-2635, 1997.

56. T. Linder, G. Lugosi, and K. Zeger. Empirical quantizer design in the presence of source noise or channel noise. *IEEE Transactions on Information Theory*, 43:612–623, 1997.

57. G. Lugosi. Comments to "Universal smoothing factor selection in density estimation: theory and practice" by Luc Devroye. *Test*, 6:291–296, 1997.

58. L. Devroye and G. Lugosi. A universally acceptable smoothing factor for kernel density estimates. *Annals of Statistics*, 24:2499–2512, 1996.

59. A. Krzyżak, T. Linder, and G. Lugosi. Nonparametric estimation and classification using radial basis function nets and empirical risk minimization. *IEEE Transactions on Neural Networks*, 7:475–487, 1996.

60. G. Lugosi and A. Nobel. Consistency of data-driven histogram methods for density estimation and classification. *Annals of Statistics*, 24:687–706, 1996.

61. G. Lugosi and K. Zeger. Concept learning using complexity regularization. *IEEE Transactions on Information Theory*, 42:48–54, 1996.

62. L. Devroye and G. Lugosi. Lower bounds in pattern recognition and learning. *Pattern Recognition*, 28:1011–1018, 1995.

63. T. Linder, G. Lugosi, and K. Zeger. Fixed-rate universal lossy source coding and rates of convergence for memoryless sources. *IEEE Transactions on Information Theory*, 41:665–676, 1995.

64. G. Lugosi. Improved upper bounds for probabilities of uniform deviations. *Statistics and Probability Letters*, 25:71–77, 1995.

65. G. Lugosi and K. Zeger. Nonparametric estimation via empirical risk minimization. *IEEE Transactions on Information Theory*, 41:677–678, 1995.

66. J. Beirlant, L. Györfi, and G. Lugosi. On the asymptotic normality of the l_1- and l_2-errors in histogram density estimation. *Canadian Journal of Statistics*, 22:309–318, 1994.

67. L. Devroye, L. Györfi, A. Krzyżak, and G. Lugosi. On the strong universal consistency of nearest neighbor regression function estimates. *Annals of Statistics*, 22:1371–1385, 1994.

68. T. Linder, G. Lugosi, and K. Zeger. Rates of convergence in the source coding theorem, empirical quantizer design, and universal lossy source coding. *IEEE Transactions on Information Theory*, 40:1728–1740, 1994.

69. T. Linder, G. Lugosi, and K. Zeger. Recent Trends in Lossy Source Coding. *Journal on Communications (Hungary)*, vol. XLV:16-22, 1994.

70. G. Lugosi and M. Pawlak. On the posterior-probability estimate of the error rate of nonparametric classification rules. *IEEE Transactions on Information Theory*, 40:475–481, 1994.

71. A. Faragó, T. Linder, and G. Lugosi. Fast nearest neighbor search in dissimilarity spaces. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 15:957–962, 1993.

72. A. Faragó and G. Lugosi. Strong universal consistency of neural network classifiers. *IEEE Transactions on Information Theory*, 39:1146–1151, 1993.

73. L. Györfi and G. Lugosi. Kernel density estimation from ergodic sample is not universally consistent. *Computational Statistics and Data Analysis*, 14:437–442, 1992.

74. G. Lugosi. Learning with an unreliable teacher. *Pattern Recognition*, 25:79–87, 1992.

75. A. Faragó, T. Linder, and G. Lugosi. Nearest neighbor search and classification in O(1) time. *Problems of Control and Information Theory*, 20:383–395, 1991.

76. G. Lugosi. Pattern classification from distorted sample. *Problems of Control and Information Theory*, 20:465–473, 1991.

77. A. Faragó and G. Lugosi. An algorithm to find the global opimum of Hidden Markov Model parameters. *Problems of Control and Information Theory*, 18:435–444, 1989.

Parts of books:

1. S. Boucheron, O. Bousquet, and G. Lugosi, Introduction to statistical learning theory. in O. Bousquet, U.v. Luxburg, and G. Rätsch (editors), *Advanced Lectures in Machine Learning*, Springer, pp. 169–207, 2004.

2. S. Boucheron, O. Bousquet, and G. Lugosi, Concentration inequalities. in O. Bousquet, U.v. Luxburg, and G. Rätsch (editors), *Advanced Lectures in Machine Learning*, Springer, pp. 208–240, 2004.

3. G. Lugosi. Pattern classification and learning theory. in. L. Györfi (editor), *Principles of Nonparametric Learning*, Springer-Verlag, Wien, pp. 1–56, 2002.

4. L. Devroye and G. Lugosi. Variable kernel estimates: on the impossibility of tuning the parameters. in: E. Giné, D. Mason, and J. Wellner (editors), *High-Dimensional Probability*, Springer-Verlag, New York, 2000.

5. L. Devroye, G. Lugosi, and F. Udina. Inequalities for a new data-based method for selecting nonparametric density estimates. in M.L. Puri (ed.), *Asymptotics in Statistics and Probability, Papers in Honor of George Gregory Roussas*, VSP International Science Publishers, The Netherlands, 2000.

6. L. Györfi and G. Lugosi. Strategies for sequential prediction of stationary time series. in M. Dror, P. L'Ecuyer, and F. Szidarovszky (eds), *Modeling Uncertainty: An examination of its theory, methods, and applications*, Kluwer Academic Publishers, 2001.

7. S. Kulkarni, G. Lugosi, and S. Venkatesh. Learning Pattern Classification—A Survey. in S. Verdú, S. W. McLaughlin (eds.), *Information Theory: 50 Years of Discovery*, IEEE Press, New York, 1999.

Book review:

1. G. Lugosi. "Review of 'Maximum Penalized Likelihood Estimation. Volume I: Density Estimation' by P. P. B. Eggermont and V. N. LaRiccia", *SIAM Review*, 45:127–164, 2003.

Selected conference papers and presentations:

1. G. Lugosi. "Adversarial bandit problems: the power of randomization." European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, Barcelona, September 20-24, 2010. (tutorial talk)

2. G. Lugosi. "The clique number of high-dimensional random geometric graphs." 34th Conference on Stochastic Processes and Their Applications, Osaka, Japan, September 5–11, 2010. (invited talk)

3. G. Lugosi. "Combinatorial testing problems." Prague Stochastics 2010, Aug 30–Sept. 4, 2010. (invited talk)

4. G. Lugosi. "Combinatorial testing problems." ICM Satellite Conference on Probability and Stochastic Processes, Bangalore, India, August, 2010. (invited talk)

5. G. Lugosi. "Combinatorial testing problems." XI CLAPEM, Naiguatá, Venezuela, November 1–6, 2009. (invited talk)

6. G. Lugosi. "The Longest Minimum-weight Path in a Complete Graph." Workshop on"Techniques and Challenges from Statistical Physics," CRM, Bellaterra, October 14–16, 2009. (invited talk)

7. Sharp threshold for percolation on expanders, Conference on Probabilistic Techniques in Computer Science, CRM, Bellaterra, September 14–18, 2009. (invited talk)

8. Combinatorial Problems in Randomized Sequential Prediction, Joint Statistical Meetings, Whashington DC, August 1–6, 2009. (Medallion lecture)

9. Performance bounds and algorithms in randomized sequential prediction. European Meeting of Statisticians, Toulouse, France, June 20-24, 2009. (special invited lecture)

10. G. Lugosi. "Strategies for prediction under imperfect monitoring". Workshop on On-line Learning with Limited Feedback, Montreal, Canada, June 18, 2009. (invited talk)

11. N. Cesa-Bianchi and G. Lugosi. "Combinatorial Bandits." 22nd Annual Conference on Learning Theory (COLT 2009), Montreal, Canada, June 19–21, 2009.

12. G. Lugosi, O. Papaspiliopoulos, and G. Stoltz. "Online Multi-task Learning with Hard Constraints." 22nd Annual Conference on Learning Theory (COLT 2009), Montreal, Canada, June 19–21, 2009.

13. G. Lugosi. "The Longest Minimum-weight Path in a Complete Graph." Workshop "Combinatorics, Randomization, Algorithms and Probability," Montreal, Canada, May 4-8, 2009. (invited talk)

14. G. Lugosi. "Randomized sequential prediction: performance and algorithms." ISNI 2008: International Seminar on Nonparametric Inference, Vigo, Spain, November 7-9, 2008. (invited talk)

15. G. Lugosi. "Consistency of random forests and related classifiers." Workshop On Current Trends And Challenges In Model Selection And Related Areas, Vienna, Austria, July 24–26, 2008. (invited talk)

16. G. Lugosi. "Concentration inequalities." 21st Annual Conference on Learning Theory (COLT'08), Helsinki, Finland, 9-12 July, 2008. (keynote talk)

17. A. György, G. Lugosi, Gy. Ottucsák. On-line sequential bin packing. Proceedings of the 21st Annual Conference on Learning Theory (COLT'08), Helsinki, Finland, 9-12 July, 2008.

18. G. Lugosi. "Desigualdades de concentración." Onzena Trobada Matemàtica de la Societat Catalana de Matemàtiques, Barcelona, June 6, 2008. (invited talk)

19. G. Lugosi. "The resistance of random trees." 2008 International Conference on the Analysis of Algorithms (AofA'08), Maresias, Brasil, April, 2008. (invited talk)

20. G. Lugosi. "Sequential prediction under partial monitoring." Desè Congrés Internacional de l'Associació Catalana d'Intel.ligència Artificial, Andorra, October 25-26, 2007. (plenary talk)

21. G. Lugosi. "Predicción secuencial bajo información incompleta." XXX Congreso Nacional de Estadística e Investigación Operativa, Valladolid, September 25–28, 2007. (plenary talk)

22. G. Lugosi. "Local tail bounds for functions of independent random variables." Tools in High Dimensional Phenomena, Jaca, September 17-21, 2007. (invited talk)

23. G. Lugosi. "The performance of clustering in Hilbert spaces." Probability and Statistics in Science and Technology, Porto, Portugal, August 30-September 1, 2007.

24. G. Lugosi. "On the consistency of random forests for classification." 56th Session of the ISI, August 22-29, Lisboa, 2007. (invited talk)

25. G. Lugosi. "Sequential prediction under imperfect monitoring." 7th Annual INFORMS Revenue Management and Pricing Section Conference, Barcelona, June 28-29, 2007. (invited talk)

26. G. Lugosi. "Local tail bounds for functions of independent random variables." Conférence internationale en probabilités et statistique, Journées ESAIM P&S, Toulouse, June 14-15, 2007. (invited talk)

27. G. Lugosi. "Consistency of random forests for classification." Premières Journées Statistiques du Sud, Nice, April 11-14, 2007. (invited talk)

28. G. Lugosi. "Ranking and empirical minimization of U-statistics." Journées de Statistiques, Rennes 2006 Estimation non-paramétrique, Oct. 26-27, 2006. (invited talk)

29. S. Clemencon, G. Lugosi, and N. Vayatis. "Ranking and Empirical Minimization of U-Statistics." 2006 International Workshop on Applied Probability, Department of Statistics, University of Connecticut, May 15 - 18, 2006. (invited talk)

30. G. Lugosi. "Concentration and moment inequalities for functions of independent random variables." Colloquium talk at the Carleton Applied Probability Day, Ottawa, Canada, Sept. 17, 2005.

31. G. Lugosi. "Empirical risk minimization for ranking problems" ISNI 2005, International Seminar on Nonparametric Inference, A Coruña, July 13–15, 2005. (invited talk)

32. G. Lugosi. "Efficient algorithms for on-line prediction" 2005 International Conference on the Analysis of Algorithms (AofA'05), Barcelona, June 6–10, 2005. (invited keynote talk)

33. G. Lugosi. "Algoritmos eficientes para la codificación de fuentes sin retraso" Jornada Científica de Telecomunicaciones y Matemáticas de la Real Sociedad de Matamáticas, Universitat Politècnica de Catalunya, 8 de junio de 2005. (invited talk)

34. G. Lugosi. "The rate of convergence of regularized boosting classifiers." *Notions of complexity: information-theoretic, computational, and statistical approaches*, EU-RANDOM, Eindhoven, October 7–9, 2004. (invited talk)

35. G. Lugosi. "On the rate of convergence of regularized boosting classifiers." *6th World Congress of the Bernoulli Society*, Barcelona, July 26–31, 2004. (invited talk)

36. G. Lugosi. "Sequential prediction under limited feedback". PASCAL Workshop on Learning Theoretic and Bayesian Inductive Principles, London, 19–21 July 2004. (invited talk)

37. G. Lugosi. "Moment inequalities for functions of independent random variables". First Joint Canada-France meeting of the mathematical sciences. Toulouse, July 12–15, 2004. (plenary talk)

38. N. Cesa-Bianchi, G. Lugosi, and Gilles Stoltz. "Minimizing regret with label efficient prediction." *17th Annual Conference on Learning Theory*, pages 77–92. Springer, 2004.

39. G. Lugosi. "Prediction, learning, and games." XXXVIèmes Journées de Statistique, Montpellier, May 24–28, 2004. "Le Cam lecture".

40. G. Lugosi. "Moment inequalities for functions of independent random variables." IX CLAPEM, Congreso Latinoamericano de Probabilidad y Estadística Matemática, Punta del Este, Uruguay, March 22-26, 2004. (invited talk)

41. G. Lugosi. "On the rate of convergence of regularized boosting classifiers." 11th ANNUAL MEETING OF THE Belgian Statistical Society, Centre Nature de Borzée, La Roche-en-Ardenne, October, 2003. (invited talk)

42. G. Stoltz and G. Lugosi. "Internal regret in on-line portfolio selection" Proceedings of the *16th Annual Conference on Learning Theory*, pages 403–417. Springer, 2003.

43. G. Lugosi. "Applications of concentration inequalities in learning theory" Workshop on Asymptotic Geometric Analysis and Machine Learning, Universit de Marne-la-Vallée, March 24–26, 2003. (invited talk)

44. G. Lugosi. "Complexity regularization via localized random penalties" Workshop on Statistical Learning in Classification and Model Selection, EURANDOM, Eindhoven, The Netherlands, January 15-18, 2003. (invited talk)

45. G. Lugosi. "The performance of boosting in classification" *LEARNING'02*, Leganés, October 23–25, 2002. (invited talk)

46. G. Lugosi and N. Vayatis. "Bayes-risk consistency of boosting" *Foundations of Computational Mathematics, FoCM '02 Conference*, Minneapolis, August 5–14, 2002. (invited talk)

47. G. Lugosi. "Some new concentration inequalities based on the entropy method" *Stochastic Inequalities and their Applications. A EuroConference*, CRM, Bellaterra, June 17–21, 2002. (invited talk)

48. G. Lugosi. "Bayes-risk consistency of boosting methods in classification" *Statistical Modelling and Inference3 for Complex Data Structures*, Louvain-la-Neuve, Belgium, May 21–23, 2002. (invited talk)

49. G. Lugosi "Model selection via localized random penalties" *XXXIVèmes Journées de Statistique*, Bruxelles, 13-17 may 2002. (invited talk)

50. G. Lugosi. "Bayes-risk consistency of boosting methods in classification" *SMOOTHING 2002, A workshop of nonparametric smoothing in complex statistical models*, Ascona, Switzerland, April 28-May 3, 2002. (invited talk)

51. G. Lugosi. "Desigualdades de concentración" *Congreso de la Real Sociedad Española de Matemáticas*, Tenerife, Jan. 26–Feb.1, 2002. (invited plenary talk)

52. N. Cesa-Bianchi and G. Lugosi. "Potential-based algorithms in on-line prediction and game theory" Proceedings of the *14th Annual Conference on Computational Learning Theory*, pages 48–64. Springer, 2001.

53. B. Kégl, T. Linder, and G. Lugosi. "Data-dependent margin-based generalization bounds for classification" Proceedings of the *14th Annual Conference on Computational Learning Theory*, pages 368–384. Springer, 2001.

54. G. Lugosi. Model selection based on estimated penalties. *Joint AMS-HKMS Conference*, Hong Kong, 2000. (invited talk)

55. G. Lugosi. Two lectures on prediction of individual sequences. *Stochastics Meeting Lunteren*, Lunteren, Holland, 2000. (two invited talks)

56. G. Lugosi. Concentration and error estimation. *Bernoulli-RIKEN BSI 2000 Symposium on Neural Networks and Learning*, Tokyo, Japan, 2000. (invited talk)

57. G. Lugosi. Desigualdades de concentración. *II Jornades de Matemàtica Discreta i Algorísmica*, p. 65, Palma de Mallorca, 2000. (invited talk)

58. P. Bartlett, S. Boucheron, and G. Lugosi. Model selection and error estimation. *Thirteenth Annual Conference on Computational Learning Theory*, ACM Press, pp.286–297, 2000.

59. N. Cesa-Bianchi and G. Lugosi. Worst-case bounds for the redundancy of sequential lossless codes and for the logarithmic loss of predictors. *Proceedings of the 2000 IEEE International Symposium on Information Theory*, Sorrento, Italy, p.98, 2000.

60. T. Linder and G. Lugosi. A zero-delay sequential quantizer for individual sequences. *Proceedings of the 2000 IEEE International Symposium on Information Theory*, Sorrento, Italy, p.125, 2000.

61. G. Lugosi. A zero-delay sequential scheme for lossy coding of individual sequences *Neurocolt Workshop on Applications of Learning Theory*, Bellaterra, 2000. (self-invited talk)

62. G. Lugosi. Model Selection Based on Estimated Complexity. *5th World Congress of the Bernoulli Society*, Guanajuato, Mexico, 2000. (invited talk)

63. N. Cesa-Bianchi and G. Lugosi. Minimax regret bounds under log loss for general classes of experts. *12th Conference on Computational Learning Theory*, pages 12-18. ACM Press, 1999.

64. G. Lugosi. Aspectos geométricos de la clasificación estadística. in the proceedings of *VIII Encuentros de Geometría Computacional*, Castelló, pp.103–108, 1999. (invited talk)

65. G. Lugosi. A new concentration inequality. *The Fifth International Seminar on the Mathematical Analysis of Algorithms*, CRM, Bellaterra, 1999. (invited talk)

66. S. Boucheron, G. Lugosi, P. Massart. The random VC dimension and VC entropy are concdentrated around their mean. *Proceedings of the 1999 IEEE Information Theory Workshop on Detection, Estimation, Classification, and Imaging*, Santa Fe, N.M., p.38, 1999.

67. N. Cesa-Bianchi, G. Lugosi. On prediction of individual sequences relative to a set of experts. *Proceedings of the 1998 IEEE International Symposium on Information Theory*, Cambridge, Massachusetts, p.334, 1998.

68. N. Cesa-Bianchi, G. Lugosi. On optimal prediction of a binary sequence relative to a set of experts. *Proceedings of the Winter 1998 Information Theory Workshop*, San Diego, California, p.74, 1998.

69. G. Lugosi, L. Devroye. Universal smoothing in density estimation. *Symposium on Nonparametric Functional Estimation*, Montreal, Canada, 1997. (invited talk)

70. P. Bartlett, T. Linder, and G. Lugosi. The minimax distortion redundancy in empirical quantizer design. Proceedings of the *IEEE International Symposium on Information Theory*, Ulm, Germany, p.511, 1997.

71. T. Linder, G. Lugosi, and K. Zeger. Empirical quantizer design in the presence of source noise or channel noise. Proceedings of the *IEEE International Symposium on Information Theory*, Ulm, Germany, p.514, 1997.

72. P. Bartlett and T. Linder and G. Lugosi. A minimax lower bounds for empirical quantizer design. in: *Computational Learning Theory: Proceedings of the Third European Conference, EuroCOLT'97, Lecture Notes in Artificial Intelligence 1208*, Springer, Berlin, editor Shai Ben-David, pp.210–222, 1997.

73. S. Kulkarni, G. Lugosi. Minimax lower bounds for the two-armed bandit problem," Dagstuhl Seminar on *Theory and Practice of Machine Learning*, 1997.

74. G. Lugosi, A. Nobel. Adaptive Model Selection Using Empirical Complexities. *4th World Congress of the Bernoulli Society*, Vienna, Austria, August 26–31. 1996. (invited talk)

75. A. Antos, G. Lugosi. Strong minimax lower bounds for learning. In: *Proceedings of the Nineth Annual ACM Conference on Computational Learning Theory*, Association for Computing Machinery, New York, pp.303–309, 1996.

76. G. Lugosi, M. Pintér. A data-dependent skeleton estimate for learning. In: *Proceedings of the Nineth Annual ACM Conference on Computational Learning Theory*, Association for Computing Machinery, New York, pp.51–56, 1996.

77. T. Linder, G. Lugosi, and K. Zeger. Empirical quantizer design in the presence of source noise and channel noise. *Proceedings of Data Compression Conference*, IEEE Computer Society Press, Los Alamitos, California, 1996.

78. G. Lugosi, A. Nobel. Complexity regularization using data-dependent penalties," *IEEE International Symposium on Information Theory*, Whsitler, Canada, 1995.

79. G. Lugosi, K. Zeger. Concept learning using complexity regularization" *IEEE International Symposium on Information Theory*, Whsitler, Canada, 1995.

80. A. Krzyżak, T. Linder, G. Lugosi. Nonparametric classification and estimation using radial basis function nets and empirical risk minimization, *IEEE International Symposium on Information Theory*, Whsitler, Canada, 1995.

81. G. Lugosi, K. Zeger. Concept learning using complexity regularization" *IEEE Information Theory Workshop*, Rydzyna, Poland, 1995.

82. G. Lugosi, K. Zeger. Nonparametric estimation using neural networks. *IEEE International Symposium on Information Theory*, Trondheim, Norway, 1994.

83. A. Nobel, G. Lugosi. Histogram classification using vector quantization," *IEEE International Symposium on Information Theory*, Trondheim, Norway, 1994.

84. T. Linder, G. Lugosi, K. Zeger. Fixed rate universal lossy source coding for memoryless sources and rates of convergence," *IEEE International Symposium on Information Theory*, Trondheim, Norway, 1994.

85. T. Linder, G. Lugosi, K. Zeger. Rates of convergence in the source coding theorem, in empirical quantizer design, and in universal lossy source coding," *IEEE International Symposium on Information Theory*, Trondheim, Norway, 1994.

86. A. Nobel, G. Lugosi. Histogram density estimation using data-dependent partitions", *Proceedings of CISS*, Princeton, NJ, 1994.

87. T. Linder, G. Lugosi, and A. Krzyzak. Nonparametric Classification using Radial Basis Function Nets and Empirical Risk Minimization. *12th International Conference, on Pattern Recognition*, Jerusalem, 1994.

88. T. Linder, G. Lugosi, K. Zeger. Universality and rates of convergence in lossy source coding. In: *Proceedings of Data Compression Conference*, Snowbird, Utah 1993.

89. G. Lugosi. Empirical risk minimization for neural network estimates," *ORSA-TIMS 36th Joint National Meeting*, Phoenix, Arizona, 1993. (invited talk)

90. A. Faragó, G. Lugosi. Strong universal consistency of neural network classifiers. *IEEE International Symposium on Information Theory*, San Antonio, Texas, 1993.

91. G. Lugosi, M. Pawlak. On the posterior probability estimate of the error rate of nonparametric classification rules. *IEEE International Symposium on Information Theory*, San Antonio, Texas, 1993.

92. G. Lugosi. Imperfectly supervised training in statistical pattern recognition. *IEEE International Symposium on Information Theory*, Budapest, Hungary, 1991.

93. T. Linder, G. Lugosi. Classification with a low complexity nearest neighbor algorithm", *IEEE International Symposium on Information Theory*, San Diego, CA, 1990.

94. G. Lugosi, A. Faragó. A parameter estimation algorithm for speech recognition to maximize state optimized joint likelihood" *IEEE International Symposium on Information Theory*, San Diego, CA, 1990.

95. A. Faragó, G. Lugosi. An optimal algorithm for a speech recognition and segmentation model. In: *Proceedings of the VDE International Conference on Digital Speech Processing* Bad Nauheim, Germany, 1988.

96. K. Vicsi, T. Linder, G. Lugosi. Search for fast dynamic time warping algorithms", *11th International Conference of Acoustics*, Tallin, USSR, 1987.