

Lecture 14: Mercer's theorem, RKHS on Unbounded Domains, Frames

Tomaso Poggio and Sayan Mukherjee

Description

We introduce an alternate perspective of RKHS via integral operators and Mercer's theorem. Formulate the problem of RKHS on unbounded domains. Construct RKHS from frames.

Suggested Reading

- Rifkin. **Everything Old Is New Again: A Fresh Look at Historical Approaches in Machine Learning**. MIT Ph.D. Thesis, 2002. <
 - Evgeniou, Pontil and Poggio. **Regularization Networks and Support Vector Machines** Advances in Computational Mathematics, 2000.
 - V. N. Vapnik. **The Nature of Statistical Learning Theory**. Springer, 1995.
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