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Normalized Online Learning

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(Submitted on 28 May 2013)

We introduce online learning algorithms which are independent of feature scales, proving regret bounds dependent on the ratio of scales existent in the data rather than the absolute scale. This has several useful effects: there is no need to pre-normalize data, the test-time and test-space complexity are reduced, and the algorithms are more robust.

Comments:	Appears in Proceedings of the Twenty-Ninth Conference on Uncertainty in Artificial Intelligence (UAI2013)
Subjects:	**Learning (cs.LG)**; Machine Learning (stat.ML)
Cite as:	**arXiv:1305.6646** [cs.LG]
	(or **arXiv:1305.6646v1** [cs.LG] for this version)

Submission history

From: Paul Mineiro [view email]

[v1] Tue, 28 May 2013 22:12:59 GMT (46kb,D)

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