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Diverse Consequences of Algorithmic Probability

Eray Özkural

(Submitted on 14 Jul 2011 (v1), last revised 7 Nov 2011 (this version, v2))

We reminisce and discuss applications of algorithmic probability to a wide range of problems in artificial intelligence, philosophy and technological society. We propose that Solomonoff has effectively axiomatized the field of artificial intelligence, therefore establishing it as a rigorous scientific discipline. We also relate to our own work in incremental machine learning and philosophy of complexity.

Subjects:	**Information Theory (cs.IT)**; Artificial Intelligence (cs.AI)
Cite as:	**arXiv:1107.2788** [cs.IT]
	(or **arXiv:1107.2788v2** [cs.IT] for this version)

Submission history

From: Eray Ozkural [view email]

[v1] Thu, 14 Jul 2011 11:23:03 GMT (20kb)

[v2] Mon, 7 Nov 2011 20:01:37 GMT (30kb)

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