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Networks

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(Submitted on 2 Jun 2011 (v1), last revised 7 Nov 2011 (this version, v2)) We study a networked version of the minority game in which agents can choose to follow the choices made by a neighbouring agent in a social network. We show that for a wide variety of networks a leadership structure always emerges, with most agents following the choice made by a few agents. We find a suitable parameterisation which highlights the universal aspects of the behaviour and

The Emergence of Leadership in Social

which also indicates where results depend on the type of social network.

Comments:22 pages (as in Physica A but with a few extra references to supplementary
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(cs.SI); General Finance (q-fin.GN)Journal reference:Physica A 391 (2012) 1434-1444DOI:10.1016/j.physa.2011.11.011Report number:Imperial/TP/11/TSE/3Cite as:arXiv:1106.0296 [physics.soc-ph]for this version)

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