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EDAI 2025 Submission 5

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Submission 5

Title	The Role of Information in Shaping Cooperation Under the Risk of Ecological Collapse
Paper	 (Jul 18, 09:52)
SI	
Reviews	
Author keywords	Social Dilemma Tipping Element Collective Risk Information Reciprocity
Topics	Behavioural evolution and learning, Complex dynamics in learning ecosystems, Learning in evolving environments Averting critical climate tipping points depends on the coordinated efforts of geopolitical entities. Yet such cooperation is hindered not only by short-sighted incentives but also uncertainty, both about others' behavior and the true state of the climate. Despite growing research, the role of information in shaping outcomes remains unclear. We present a game-theoretic framework to evaluate how access to social and ecological cues influences long-term cooperation under environmental uncertainty. Preliminary results suggest ecological feedback is crucial for sustaining cooperation, while social transparency is less effective than expected. This work clarifies how different forms of reciprocity operate, with implications for designing monitoring approaches to foster stewardship.
Abstract	
Submitted	Jul 18, 09:52
Last update	
Indicate your submission category	Work in Progress (max. 5 pages not considering refs)
Indicate the following information about your submission	None of the above
Special issue in the Journal of Adaptive Behaviour	no

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