

Luca Tummolini

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Brief CV

I am Senior Researcher at the Institute of Cognitive Sciences and Technologies (CNR) and at the Institute for Future Studies in Sweden. I study social interaction and the cognitive mechanisms that enable humans to flexibly coordinate. Adopting an embodied approach to cognition, I am also interested in how interaction grounds the mental representation of abstract categories. These two strands converge on the study of ownership of property, from how ownership is mentally represented to how norms regulating conflicts around resources arise and persist. In my work I develop formal models (computational modelling, game theory) and use experimental methods spanning from cognitive psychology to experimental economics and sociology. I have published in psychology, philosophy, computer science, and sociology (e.g. *Nature Communications*, *Synthese*, *Psychological Bulletin*, *Social Psychology Quarterly*, *Philosophical Transactions of the Royal Society B*, *Socius*).

Aims and vision

I strongly believe (and identify with) cognitive science as an interdisciplinary approach to understanding the mind, brain and behavior. Given its naturalistic aims, I believe that cognitive science should be a bridge between the life sciences on the one hand and the social sciences and humanities on the other. Given its constitutive reliance on computational methods, I also believe that it can inspire the design and help the governance of innovations in artificial intelligence and machine learning. Since its second meeting in Ivrea in 2004, I have been regularly attending and presenting at AISC meetings and have had the chance to witness the potential of the Italian community to contribute to this vision. While the vision is old -- more than 60 years I'd say -- I think that such an integrative scientific project is still a major challenge with vast social and economic consequences. A scientific association can fulfil different objectives, but I think AISC can also be an important means to realize this overarching vision. My aim is to contribute to this effect by bringing my experience working across different scientific disciplines and by proposing new initiatives to further this vision.

