The responsibility-gap in self-organized social systems Can empirical approaches in modeling social

science and neuroeconomics help to close it?

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Overview

Roadmap:

- Definition: responsibility / responsibility gaps
- Observations
- Which responsibility gap?
- Setting the framework: "social network", "social space", "space of reasons", "self-organization"
- Integrating responsibility as a "moralization function"
- Limits of responsibility (but nor morality)

Responsibility

Assumption: The minimal conceptual structure of "moral responsibility" involves three entities (that may coincide in their physical realization on a certain level of resolution):

- Responsibility subject ("who?")
- Responsibility object ("for what?")
- Responsibility instance (Instanz; "to whom?")

Using the word "responsibility" in a specific social context can then be understood as an *act of creation* (or an *act of unveiling*) of these three entities.



Responsibility gap

Responsibility gap (1): One of the entities in a responsibility relation is unqualified to do its job (i.e. misses certain criteria in order to become a subject, object or instance of responsibility).

Ways out:

- 1) Change the criteria
- 2) Find a new entity that qualifies
- 3) Understand the problem as a (moral) problem that has nothing to do with responsibility.

Responsibility gap (2): We have a "compliance problem" regarding the responsibility subject/instance toward its responsibility object (maybe caused by the first interpretation of a responsibility gap).

- 4) Enhance the capacity of the entity (mostly S)
- 5) Reduce the number of Os

Three observations (mostly Switzerland-based)





2) Addressing "Responsibility" on the legal level



3) Claiming a "lack of responsibility"

Zeitzeichen

Rede und Antwort stehen

Die Finanzkrise lässt sich auch als Verantwortungskrise begreifen

A responsibility gap?

These observations show conflicting opinions on the size of the set of "responsibility objects" (there I would localize a "gap").

However: there are two different kinds of "gaps" possible:



Setting the framework (1)

Social networks:

(spatio-temporal dynamics)

- Setting system boundaries
- Individual agent as node
- Choose type of interaction (edge)
- Choose timescale
- differ between descriptive/normative networks



Setting the framework (2)

Social space:

- (at least) three types of nodes
- nodes (partly) emerge from clustering of data gained on the social network level
- descriptive and normative "entanglement" in the measurement process (in particular when determining edges)



Setting the framework (3)

"Space of reason":

- (infinite) number of propositions that could serve as reasons in a given context
- Agent has access to some part of this space
- Justification-needs turn proposition in reasons



Setting the framework (4)

Some notes on "self-organization" (a tricky concept):

- It was defined in a (more or less) precise way in nonequilibrium thermodynamics
- It turned into a "buzzword" with low explanatory power ("Selbstorganisation des Universums")
- But has now become (at least in agent-based modeling and the like) a more or less "stable concept" describing the emergence of "large-scale patterns" (structures, dynamics) out of the interaction of many single agents.
- And is in social science probably best expressed as the process that may emerge when liberty-rights are used (e.g. founding companies)

Integrating Responsibility (1)

Responsibility as a "moralization function":

- f: {N x E x P} \rightarrow {S, O, I}
- Psychology of responsibility: local character (an important help to deal with `hidden normativity')



Integrating Responsibility (2)

Possible contributions of (modeling) social science towards the problem of responsibility (non-exhaustive list):

 Gap 1: Understand the formation of candidates for "large-scale" S/O (entities in a social space) using (e.g.) a clustering framework.

But: Problem of `hidden normativity' in this measurement process AND normative status of the fact that these entities form as a result of a `self-organization process'.

2. Gap 2: Evaluation the effect of causal embedding of single agents in a multitude of activities towards agent's capacity. *But:* Definition of the capacities in the model is a normative act itself.

Limits of responsibility (speculative)

