

# The Construction and Globalization of the Knowledge Base in Inter-human Communication Systems

Loet Leydesdorff

(Submitted on 7 Dec 2009)

The relationship between the "knowledge base" and the "globalization" of communication systems is discussed from the perspective of communication theory. I argue that inter-human communication takes place at two levels. At the first level information is exchanged and provided with meaning and at the second level meaning can reflexively be communicated. Human language can be considered as the evolutionary achievement which enables us to use these two channels of communication simultaneously. Providing meaning from the perspective of hindsight is a recursive operation: a meaning that makes a difference can be considered as knowledge. If the production of knowledge is socially organized, the perspective of hindsight can further be codified. This adds globalization to the historically stabilized patterns of communications. Globalization can be expected to transform the communications in an evolutionary mode. However, the self-organization of a knowledge-based society remains an expectation with the status of a hypothesis.

Subjects: **Computers and Society (cs.CY)**; Adaptation and Self-Organizing Systems (nlin.AO); Physics and Society (physics.soc-ph)

Cite as: [arXiv:0912.1357v1](#) [cs.CY]

## Submission history

From: Loet Leydesdorff [[view email](#)]

[v1] Mon, 7 Dec 2009 22:09:42 GMT (286kb)

*[Which authors of this paper are endorsers?](#)*

Link back to: [arXiv](#), [form interface](#), [contact](#).

## Download:

- [PDF only](#)

Current browse context:

cs.CY

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [0912](#)

Change to browse by:

[cs](#)

[nlin](#)

[nlin.AO](#)

[physics](#)

[physics.soc-ph](#)

## References & Citations

- [CiteBase](#)

## DBLP - CS Bibliography

[listing](#) | [bibtex](#)

[Loet Leydesdorff](#)

## Bookmark (what is this?)

[CiteULike logo](#)

[Connotea logo](#)

[BibSonomy logo](#)

[Mendeley logo](#)

[Facebook logo](#)

[del.icio.us logo](#)

[Digg logo](#)

[Reddit logo](#)