

How to identify and measure interdisciplinarity in (academic) technology transfer processes?



Idea:

While interdisciplinary research (IDR) has attracted much attention, this has not yet resulted in a coherent body of knowledge of interdisciplinarity. One of the impediments is a lack of consensus on its conceptualization and measurement. Some of the proposed measures have shown to misalign empirically, meaning that conclusions about IDR can differ across measures. With a systematic literature review it is the goal to create an overview of scientific literature on how to identify interdisciplinarity in (academic) technology transfer processes and how to then measure it.

Study design:

Systematic Literature Review with publication data

Relevant Literature:

- Borge, L., Wustmans, M., & Bröring, S. (2024). Assessing Interdisciplinary Research within an Emerging Technology Network: A Novel Approach Based on Patents in the Field of Bioplastics. *IEEE Transactions on Engineering Management*, 71:1452-1469.
- Bengoa, A., Maseda, A., Iturralde, T., & Aparicio, G. (2021). A bibliometric review of the technology transfer literature. *The Journal of Technology Transfer*, 46(5), 1514–1550.
- Nakhoda, M., Whigham, P., & Zwanenburg, S. (2023). Quantifying and addressing uncertainty in the measurement of Interdisciplinarity. *Scientometrics*, 123:6107-6127.
- Zwanenburg, S., Nakhoda, M., & Wigham, P. (2022). Toward greater consistency and validity in measuring Interdisciplinarity: a systematic and conceptual evaluation. *Scientometrics*, 127:7769-7788.
- Pham, H.-S., Vancraeynest, B., Polemans, H., Vancauwenbergh, S., & Ali-Eldin, A. (2023). Identifying Interdisciplinary research in research projects. *Scientometrics*, 128:5521-5544.