

# The Literature Review Seminar

Seminar: Master | Ph.D.

Prof. Dr. Gerit Wagner

Information Systems and Applied Computer Sciences

Otto-Friedrich-Universität Bamberg



## Prior knowledge of literature reviews, topics, and expectations

- What is your topic and research question for this seminar?
- What are your expectations for the seminar?
- Did you work on a literature review before?

## Your instructor: Prof. Dr. Gerit Wagner

Sustained **fascination** for literature reviews for 10+ years:

- 2014-2018: **Dissertation** on the scientific impact of literature reviews
- 2020-2022: Postdoctoral fellowship at HEC Montréal (Canada):
  - Worked with **Guy Paré**, Ph.D., a frequent co-author and mentor, who serves as a Senior Editor for Literature Reviews at JAIS
  - Served as a TA for the **literature review seminar** for Ph.D. students at five universities in Montréal
- 2022-2024: Professor of Information Systems at Otto-Friedrich-Universität Bamberg
  - Started offering the **Literature Review Seminar**
- I have **published 20 papers related to literature reviews** (out of 30)
- I am the lead developer of **CoLRev**, a Python tool for literature reviews



## Why literature reviews are exciting (I)

Literature reviews are essential to respond to key trends:

- The rapid growing volume and variety of research output:
  - Over 2 million new papers per year
  - Over 600 guidelines for different research methods (see EQUATOR network)
- The need to demonstrate novelty of contributions and avoid reinventing the wheel
- The need to exercise critical judgment of prior research

In the future, the ability to synthesize, organize, and critically assess prior research will become even more essential.



# Why literature reviews are exciting (II)

Literature reviews can make theoretical contributions that could never be accomplished in an individual study.

Example: Media Synchronicity Theory (Dennis et al. 2006)

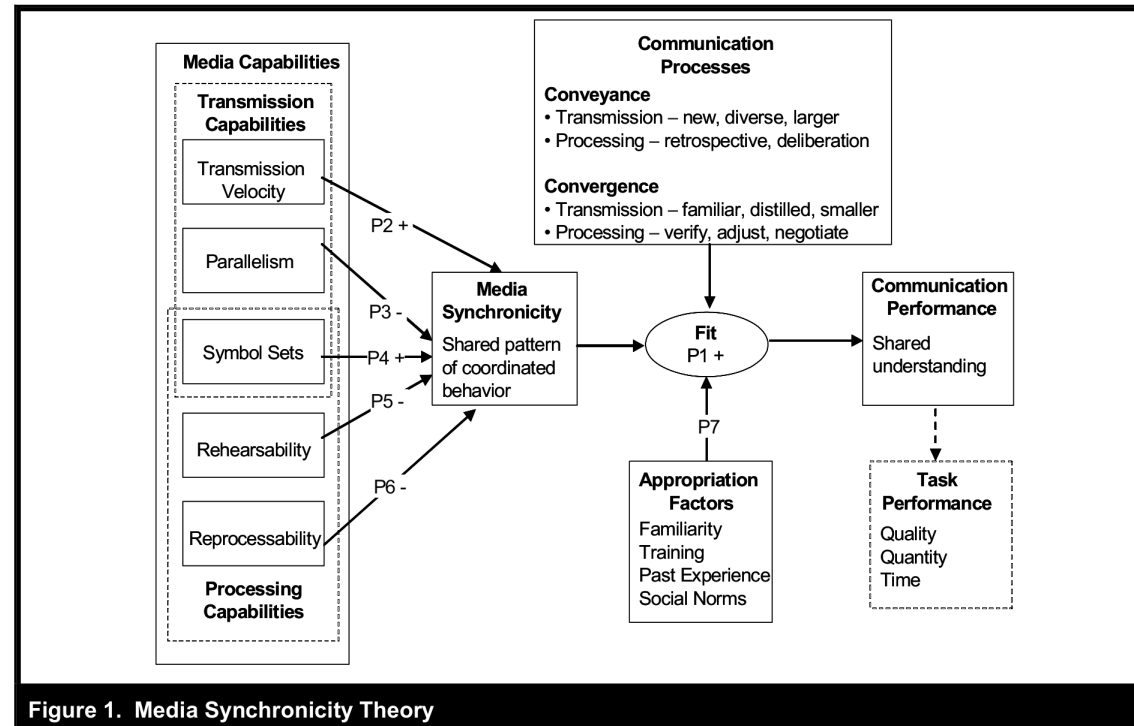


Figure 1. Media Synchronicity Theory

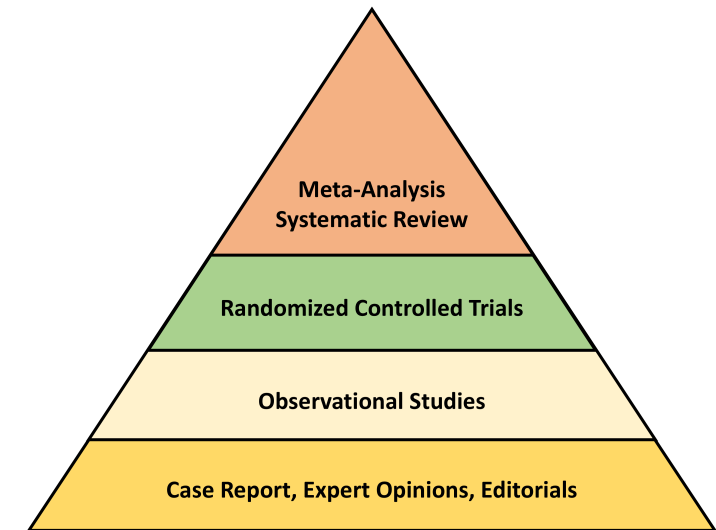
## Why literature reviews are exciting (III)

Meta-analyses and qualitative systematic reviews can be used to aggregate the empirical evidence across studies. They are at the top of the **hierarchy of evidence**. For **practitioners** and **policy makers**, meta-analyses can be an authoritative source of evidence:

- The Cochrane Reviews (public health)
- The Campbell Collaboration (social policy, and criminal justice)
- Visible learning: A synthesis of over 800 meta-analyses relating to achievement (Hattie 2008)

For **researchers**, meta-analyses and systematic reviews may indicate areas where empirical evidence is inconclusive.


Meta-analyses are able to address common errors that cannot be eliminated in empirical studies (e.g., measurement error or publication bias).



# Why literature reviews are exciting (IV)

Literature reviews can have a profound impact (e.g., Vial 2019 is cited 2,000 times per year)

Google Scholar



**Gregory Vial**  
Associate Professor, Department of Information Technology, [HEC Montreal](#)  
Verified email at hec.ca - [Homepage](#)

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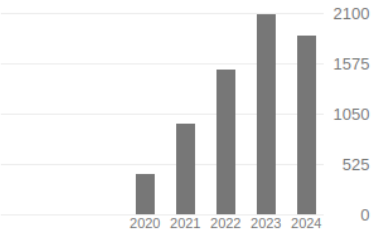
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<a href="#">Managing artificial intelligence projects: Key insights from an AI consulting firm</a> G Vial, AF Cameron, T Giannelia, J Jiang Information Systems Journal 33 (3), 669-691	30	2023
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<a href="#">Data governance and digital innovation: a translational account of practitioner issues for IS research</a> G Vial Information and Organization 33 (1), 100450	25	2023
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## Why literature reviews are exciting (V)

There are many open challenges, such as

- Considering differences and synergies between disciplines in the design of methods and tools,
- Design of LR software to manage data, AI, and collaboration,
- Coping with massive input and addressing urgent demands (e.g., [COVID reviews](#))

## Learning objectives

Acquire a broad understanding of

- the **goals** and types of literature reviews
- the **steps** of the process
- the **qualities** of a good review paper
- the **tools** available

## Outcome

- A **review protocol** applying this understanding and a short **presentation**
- [Criteria and resources](#) are available online
- Dates for submission and presentation: see [outline](#)

# Administration and Materials

Contact: [gerit.wagner@uni-bamberg.de](mailto:gerit.wagner@uni-bamberg.de)

Consultation hours: via [Calendly](#)

Materials are available [online](#):

## Slides

- Presentation slides will be made available for download.
- You are expected to take complementary notes and read the recommended literature.

## Literature

- Literature and complementary materials are listed at the end of each lecture.
- Reading of complementary materials depends on your interest and ambition.

## Acknowledgement:

- Guy Paré: the materials are largely based on his literature review seminar.






## We value your feedback and suggestions

We encourage you to share your feedback and suggestions on this slide deck:

[Suggest specific changes by directly modifying the content](https://github.com/digital-work-lab/literature-review-seminar/edit/main/slides/00-orga.md)

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Your feedback plays a crucial role in helping us align with our core goals of **impact in research, teaching, and practice**. By contributing your suggestions, you help us further our commitment to **rigor, openness** and **participation**. Together, we can continuously enhance our work by contributing to **continuous learning** and collaboration across our community.

Visit this [page](https://digital-work-lab.github.io/handbook/docs/10-lab/10_processes/10.01.goals.html) to learn more about our goals:      .

## References

- Dennis, A. R., Fuller, R. M., & Valacich, J. S. (2008). Media, tasks, and communication processes: A theory of media synchronicity. *MIS Quarterly*, 32(3), 575-600. doi:[10.2307/25148857](https://doi.org/10.2307/25148857)
- Petter, S., DeLone, W., & McLean, E. (2008). Measuring information systems success: models, dimensions, measures, and interrelationships. *European Journal of Information Systems*, 17(3), 236-263. doi:[10.1057/ejis.2008.15](https://doi.org/10.1057/ejis.2008.15)
- Rando, H. M., Greene, C. S., Robson, M. P., Boca, S. M., Wellhausen, N., Lordan, R., ... & COVID-19 Review Consortium. (2021). SARS-CoV-2 and COVID-19: An evolving review of diagnostics and therapeutics. Manubot. [link](#)
- Vial, G. (2019). Understanding digital transformation: A review and a research agenda. *The Journal of Strategic Information Systems*, 28(2), 118-144. doi:[10.1016/j.jsis.2019.01.003](https://doi.org/10.1016/j.jsis.2019.01.003)