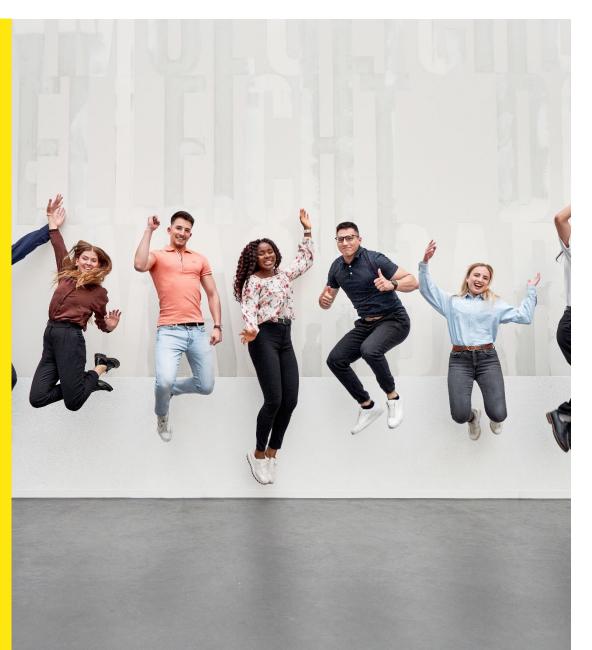


## **DSR** methodology for papers on Emerging **Topics**

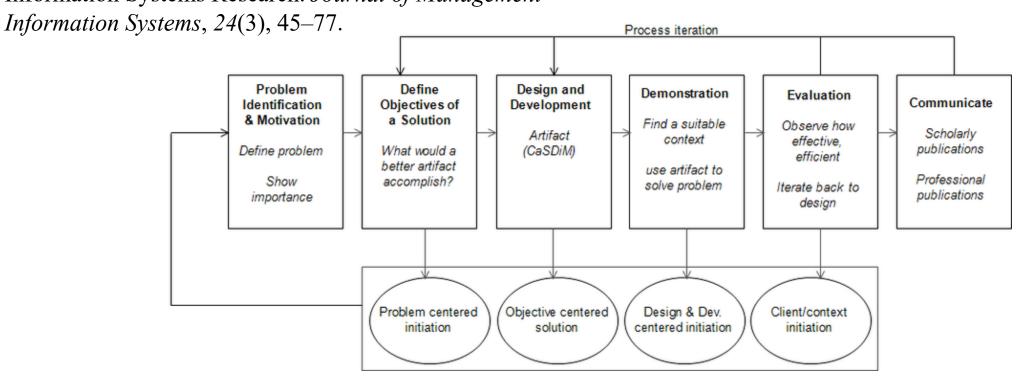
**Topic 5 – Hybrid Intelligence** 

Dr. Emanuele Laurenzi



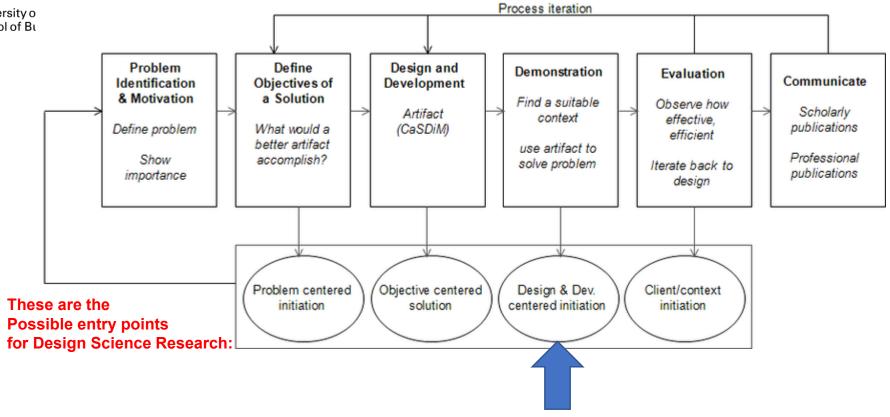


Peffers, K., Tuunanen, T., Rothenberger, M., & Chatterjee, S. (2014). A Design Science Research Methodology for Information Systems Research. *Journal of Management* 



## Other resources on Design Science:

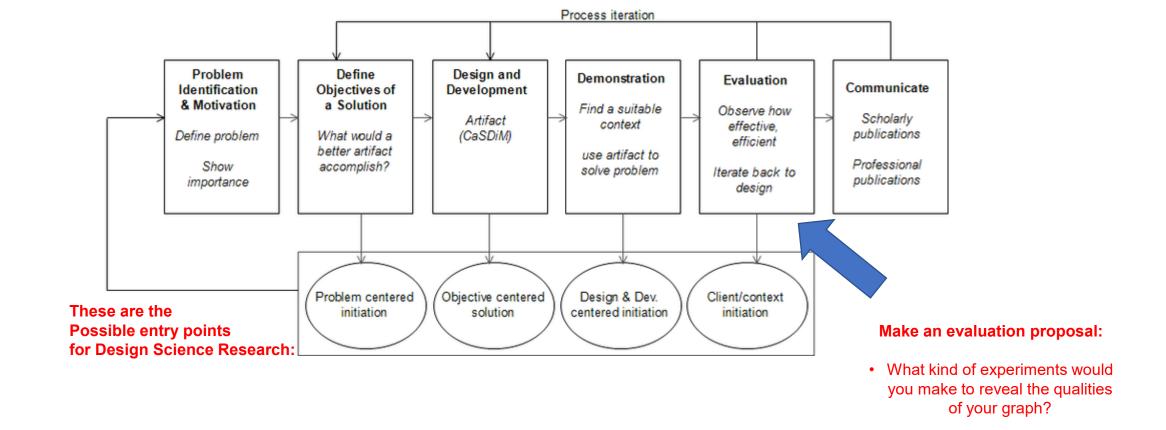
- Useful quick read slides from R. Wieringa: https://wwwhome.ewi.utwente.nl/~roelw/DSM90minutes.pdf
- The DESRIST conference series: https://link.springer.com/conference/desrist
- The original paper of Hevner et al: https://www.researchgate.net/publication/201168946\_Design\_Science\_in\_Information\_Systems\_Research
- And countless books (e.g. https://link.springer.com/book/10.1007/978-3-319-07374-3)



This could be your entry point for your paper:

- 1. Find and show Al tools suitable to assist your company scenario
- 2. Extrapolate towards the preceding steps (discuss what AI approaches could be useful for + what kind of AI tools could support)
  - 3. Extrapolate towards the succeeding steps (discuss how would you evaluate the AI approach or a system/process built around it)











## Pick some criteria from this classification

There are many criteria to select from, see the paper: https://cedric.cnam.fr/fichiers/art 3208.pdf

There can be **trade-offs** (targeting one criteria may sacrifice another)

Not all these make sense for any kind of artifact (what is your artifact? An Al approach? A system architecture based on AI? Different criteria would apply)

Look for things that can be measured, not only to popularity voting ("do you like or not?")

## Think about both

- -Subjective/biased evaluations ("system acceptance")
- -But more about objective evaluations (which decisions are supported, which not; performance; usability etc.)
- -Subjective evaluations are not "forbidden" but scientific assessments should only care how they inform future design improvements ("I don't like this because of that which should be improved" instead of opinion polls/popularity votes)

