

MEC L1001 Design Science

Lecture 2 - Design Science - discuss papers

© Katja Hölttä-Otto 2019

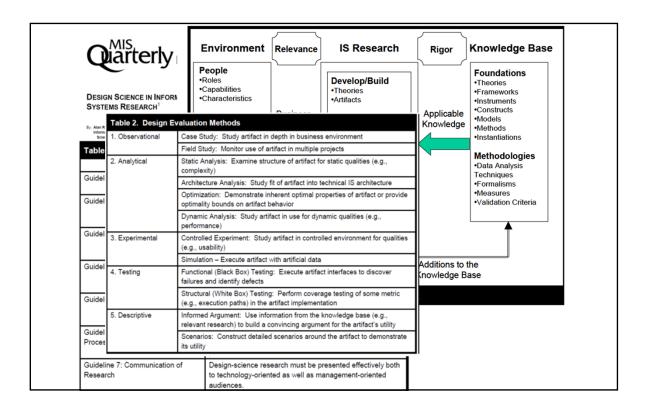


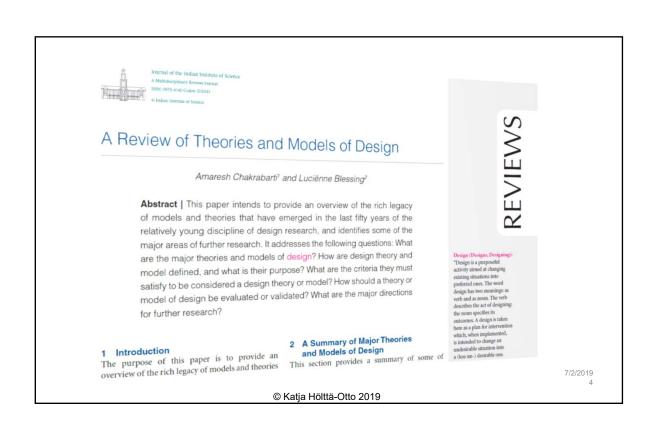
Answer 2 of the 3 questions below

- 1. List, name or describe a few design theories or models summarized by Chakrabarti & Blessing. OR describe how the article differentiates between a theory and a model.
- 2. Describe two of the Design Science guidelines discussed by Hevner et al.
- 3. Describe any two parts of Hovath's framework of reasoning about categories, domains and trajectories of engineering design research.



© Katja Hölttä-Otto 2019









Position your own research on the map



.2.2019

© Katja Hölttä-Otto 2019

Homework

Readings – Find the following 3 papers, read them and be ready to discuss (Quiz!)

- Note on the Voice of the Customer, John Hauser, MIT Sloan Courseware. http://web.mit.edu/hauser/www/Papers/NoteontheVoiceoftheCustomer.pdf
- Raviselvam, S., Wood, K., Hölttä-Otto, K., et al. (2016). A Lead User Approach to Universal Design-Involving Older Adults in the Design Process. Studies in health technology and informatics/Universal Design.
- Tuarob S, Tucker CS. Automated Discovery of Lead Users and Latent Product Features by Mining Large Scale Social Media Networks. ASME. *J. Mech. Des.* 2015;137(7):071402-071402-11. doi:10.1115/1.4030049.

For project purposes, BUT NOT for class discussion, you may wish to choose an alternative to the above e.g. by same authors. Especially Tuarob and/or Tucker have several alternatives to looking for something other than lead users.



7.2.2019

8

© Katja Hölttä-Otto 2019