Reflecting on the Impact of HCI Frameworks

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CHI 2018 Workshop on Rethinking Interactions

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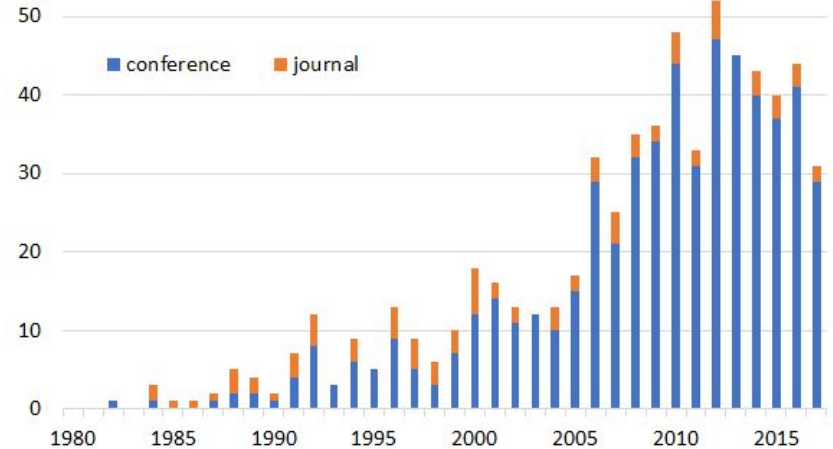Drexel / WPI

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Frameworks

- **Tie** together seemingly disparate topics

- Show a **complete picture** of a research subfield

- Help researchers to **identify open areas** for generating new research and design ideas

- Assist to **explain and contextualize** their results

Frameworks in HCI

- Over 650 HCI frameworks papers

- Represents ~1.4% of papers accepted every year

- Main venues for frameworks:
  CHI EA (19), EICS (17), CHI (11), TEI (10), VRCAI (10)

Frameworks in HCI

- Very few authors evaluate the impact of their theories and frameworks

    - **Active theory** (Clemmensen, Kaptelinin and Nardi, Behaviour and Info. Tech 2016)
    - **Trajectories Conceptual Framework** (Velt, Benford and Reeves, CHI 2017)
    - **Lab and field evaluations in mobile HCI research** (Kjeldskov and Skov, 2014)

- Evaluating impact in general

    - **OzCHI** (Mubin, Mahmud, Ahmad, Scientometrics 2017)
    - **Citation types at CHI 2016** (Marshall et al., CHI EA 2017)

Contribution of the Paper

- **We argue for the importance of evaluating frameworks in HCI**

- **When?** At the earliest, five years from the framework publication date

- **How?**
  - By performing a content-based citation analysis
  - By qualifying the use of the framework by the original authors
  - By evaluating the impact of theoretical work on training future researchers and practitioners

What we want to get from the workshop

- Do you reflect about the impact of your own work?

- How and when should we reflect on the impact of theoretical research?

- How do you integrate interaction frameworks in your teaching?