

Digital Publishing in Engineering Research and Development

Task for a *Bachelor Thesis*

Background

As an individual in a company or as part of the international science community the need arises to communicate/disseminate our work results among our peers. Today the communication and/or dissemination will primarily be digital, but in most cases still traditionally based on writing. Other means of digital communication (voice, graphical, video, data centered) are possible, but not the main focus of this thesis. A company would have (hopefully) defined its product centered communication strategies and standards. Information will primarily be pushed through the organization as need to know requires. Corporate research results are archived and kept secret, protected by patents, or shared with the international science community. In the international science community, the information is rather pulled by researchers in literature reviews. For this reason, researchers make their results publically available in established databases and/or consider alternative means of dissemination through the Internet.

Task

The thesis gives an overview of the various modern digital publishing concepts and provides young readers with a hands-on experience ranging from scientific writing to publishing strategies for their own career development, be it in industry or academia. As such, the report gives an introduction to all major aspects of "Digital Publishing in Engineering Research and Development". Topics covered in this thesis are:

- Possibilities in Academic Publishing
- Open Science
- Digital Preservation
- Understanding Repositories and Machine Readable Web Pages
- Dissemination with Academic/Professional Social Media
- Hands-On Experience: Publishing on a PrePrint Server

The report has to be written in English based on German or international standards on report writing.