References to the Literature Review

Proceed systematically!

Refer to the *Systematic Literature Review* (SLR) [Kitchenham, 2004]!

> Kitchenham, B. (2004). Procedures for performing systematic reviews. Keele, UK, Keele University, 33(2004):1{26.

In our context of software engineering, this means:

- specify **research questions**
- identify **search strings**, try to make the research strings not too specific
- specify **inclusion and exclusion criteria** such as
  - Only peer-reviewed papers published after a specific year (xxxx)
  - Papers written in English or German only
  - When publication has multiple versions, only the recent one is included.
  - Papers with less than 4 pages are excluded.
  - Papers proposing theoretical studies without practical implementation are excluded.
- select **data sources**
  - for automatic search
    - digital libraries
      - ACM Digital Library
      - IEEE Xplore
      - Springer-Link (MetaPress) and
      - ScienceDirect (Elsevier)
    - Google Scholar
    - http://dblp.uni-trier.de/
  - for manual search
    - reference lists from relevant papers
    - homepages (bibliography) from well-known researchers
    - relevant journals and conferences such as
      - International Journal on Software and Systems Modeling (SoSyM)
      - Journal of Software and Systems (JSS)
      - but also look for other relevant journals in http://rzblx1.uni-regensburg.de/ezeit/fl.phtml?bibid=SLUB&colors=7&lang=de&notation=SQ-SU
      - SIGMOD publications: https://sigmod.org/publication-list/
  - Recognized textbooks you find in the *Safari Books Online library:*
    - http://proquest.tech.safaribooksonline.de/
    - In the catalog (www.slub-dresden.de) are currently about 30,000 of the available 34,000 titles are listed, which are mainly related to computer science.
- Conducting the **review**

Examples for textbooks on **Safari Books Online** (can only be read online):

Cyber-Physical Systems

Cyber-Physical Systems, By: Raj Rajkumar; Dionisio de Niz; Mark Klein, Publisher: Addison-Wesley Professional, Pub. Date: December 30, 2016, Web ISBN-13: 978-0-13-341616-9, Web ISBN-10: 0-13-341616-X, Print ISBN-13: 978-0-321-92696-8, Print ISBN-10: 0-321-92696-X, Pages in Print Edition: 416

Securing Cyber-Physical Systems, By: Al-Sakib Khan Pathan, Publisher: CRC Press, Pub. Date: October 22, 2015, Print ISBN-13: 978-1-4987-0098-6, Print ISBN-10: 1-4987-0098-5, Web ISBN-13: 978-1-4987-0099-3, Pages in Print Edition: 426

Communications for Control in Cyber Physical Systems, By: Husheng Li, Publisher: Morgan Kaufmann, Pub. Date: October 18, 2016, Web ISBN-13: 978-0-12-801964-1, Print ISBN-13: 978-0-12-801950-4, Pages in Print Edition: 310

Cyber-Physical Systems: Integrated Computing and Engineering Design, By: Fei Hu, Publisher: CRC Press, Pub. Date: September 16, 2013, Print ISBN-13: 978-1-4665-7700-8, Pages in Print Edition: 398

Software Architecture

Software Architecture Patterns, By: Mark Richards, Publisher: O'Reilly Media, Inc., Pub. Date: February 26, 2015, Print ISBN-13: 978-1-4919-2424-2, Pages in Print Edition: 56

Software Architecture in Practice, Third Edition, By: Len Bass; Paul Clements; Rick Kazman, Publisher: Addison-Wesley Professional, Pub. Date: September 25, 2012, Web ISBN-13: 978-0-13-294279-9, Web ISBN-10: 0-13-294279-8, Print ISBN-13: 978-0-321-81573-6, Print ISBN-10: 0-321-81573-4, Pages in Print Edition: 640

Practical Software Architecture: Moving from System Context to Deployment, By: Tilak Mitra, Publisher: IBM Press, Pub. Date: November 22, 2015, Print ISBN-13: 978-0-13-376303-4,Print ISBN-10: 0-13-376303-X, Web ISBN-13: 978-0-13-376313-3, Web ISBN-10: 0-13-376313-7,Pages in Print Edition: 304

SOFTWARE ARCHITECTURE: Foundations, Theory, and Practice, By: Richard N. Taylor; Nenad Medvidovic; Eric M. Dashofy, Publisher: John Wiley & Sons, Pub. Date: January 09, 2009, Print ISBN: 978-0-470-16774-8, Web ISBN: 0-470167-74-2,Pages in Print Edition: 750