Topics in Network Security (TiNS)

Winter 2011
How to perform a literature search

TECHNISCHE
UNIVERSITÄT
DARMSTADT

SEEMOO
SECURE MOBILE NETWORKING

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Content – How-to

How-to …

- … read a research paper
- … perform the literature study
- … present the seminar talk
- … show the applicability of your solution (proof-of-concept)
- … write the seminar paper

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How-to Read a Research Paper

How to Read a Scientific Research Paper: a four-step guide for students and for faculty

- Ann McNeal, School of Natural Science, Hampshire College
- http://hampshire.edu/~apmNS/design/RESOURCES/HOW_READ.html
- While aimed at students of biology and biochemistry a lot of its advice carries over to EE and Computer Science; just substitute "lateral malleolus" or "carotene extraction procedure" with "Demand Assigned Multiple Access" or "Markov chains."

How to Read an Engineering Research Paper

- William G. Griswold, CSE, UC San Diego, USA
- http://www.cs.ucsd.edu/~wgg/CSE210/howtoread.html

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How-to Read a Research Paper contd.

How to Read a Paper?
- S. Keshav, University of Waterloo
- http://www.sigcomm.org/ccr/drupal/files/p83-keshavA.pdf

How to Read a CS Research Paper?
- Philip W. L. Fong, University of Regina, Canada
- http://www.cs.uregina.ca/~pwlfong/CS499/reading-paper.pdf

Simple Guide to the Research Process
- Centrum voor Wiskunde en Informatica, Netherlands
- http://library.cwi.nl/tutorial/
- This extensive tutorial covers the whole process of bibliographical research. Its overview of different types of publications is particularly useful.

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How-to Perform the Literature Study

Types of literature
- Books
  - Rarely necessary
  - Access via library (often problematic)
- Journal articles (Zeitschriftenartikel)
  - Mostly IEEE and ACM Journals, access via IEEE/ACM digital library using ELIB (restricted to TU-Intranet): http://elib.tu-darmstadt.de/lhb/e-zs.htm
- Conference papers
  - "in Proceedings of …", access via IEEE/ACM digital library, homepage of the conference, lab, author, …
- Technical Reports
  - Usually unique number (KOM-TR-05-2002)
  - Access via homepage of the university, lab, author
- More/other literature? → Your advisor will advise you …

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How-to Perform the Literature Study

Literature research

- TUD E-Library:
  - http://elib.tu-darmstadt.de/lhb/e-zs.htm
- ACM digital library
  - http://www.acm.org/dl/alpha_list.html
- IEEE online publications
  - http://elib.tu-darmstadt.de/ieee/biblio/welcome.html
- Springer online publications
  - http://link.springer.de/search/
- Scientific literature search-engines
  - http://citeseerx.ist.psu.edu/
  - http://scholar.google.com/
  - http://www.cs.columbia.edu/~hgs/netbib/netbib.html (outdated)

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