

IKT617 Formal Descriptions and Related Tools

Tony Clark, Andy Evans, Paul Sammut, James Willans: Applied Metamodelling: A Foundation for Language-Driven Development, Xactium, 2004, 189 pages

Egon Börger, Robert Stärk: Abstract State Machines, Springer, 2003, 381 pages

Several white papers on www.omg.org

Kleppe, A. and Warmer, J.: MDA Explained, Addison Wesley, 2003, 192 pages

Mellor, S.: Executable UML, Addison Wesley, 2003, 416 pages

IKT622 Introduction to Mobile Fading Channels

M. Pätzold, Mobile Fading Channels. Chichester: John Wiley&Sons, 418 pages, February 2002.

M. Pätzold, Advanced Techniques for Modelling and Simulation of Mobile Fading Channels, tutorial lecture notes, 170 pages, 2008.

M. Pätzold, Random Variables and Stochastic Processes for Communication Engineering, lecture notes, 138 pages, 2008.

IKT623 Principles of Artificial Intelligence (AI)

E. Rich and K. Knight. Artificial Intelligence, Second Edition, McGraw-Hill Book Company, 1991. Chapter 1 – 7. 227 pages

IKT624 ISO/IEC 27000 Family of Security Standards

Calder, A. and S. Watkins, IT Governance: A Manager's Guide to Data Security and ISO 27001/ISO27002. 3 ed. 2008, London: Kogan Page Ltd. 372 pages.

Gonzalez, J.J., Overview of security standards. Lecture notes. 2008. 20 pages

Gonzalez, J.J., Security management dynamics. Lecture notes. 2008. 50 pages

Gonzalez, J.J., Security continual improvement. Lecture notes. 2008. 50 pages

IKT625 Simulation and Performance Evaluation of Computer and Communication Networks

R. Jain, The Art of Computer Systems Performance Analysis. Chichester: John Wiley & Sons, 1991, ISBN: 0471503363. 685 pages

Optional, for further studies:

A. M. Law and W. D. Kelton, Simulation Modeling and Analysis. New York: McGraw-Hill, 2000, 3rd Edition, ISBN: 0070592926. 800 pages

S. M. Ross, Introduction to Probability and Statistics for Engineers and Scientists. Elsevier Academic Press, 2009, 4th Edition, ISBN: 0125980574. 680 pages

The Network Simulator - ns-2, <http://www.isi.edu/nsnam/ns/> .

OMNeT++ simulation environment, <http://www.omnetpp.org/>

IKT626 Main Results and Research Topics in Security

Chris J. Mitchell (ed.) Security for Mobility. Publisher: Institution of Electrical Engineers; 2003, 464 pages

Some journal and conference publications (will vary from year to year)

IKT700 Advanced Mobile Network and Service Architectures

Ericsson Review Magazine, <http://www.ericsson.com/about/publications/review/index.shtml>

“3rd Generation Partnership Project” (3GPP), <http://www.3gpp.org/Default.htm>

“Open Mobile Alliance”, <http://www.openmobilealliance.org/index.html>

“Organization for the Advancement of Structured Information Standards” (OASIS), <http://www.oasis-open.org>

“Liberty Alliance”, <http://www.projectliberty.org/>

“OMA Device Management Working Group”,

http://www.openmobilealliance.org/tech/wg_committees/dm.html

IETF, <http://www.ietf.org/>

IKT701 Dynamics of Computer Security Incident Response Teams (CSIRTs)

Georgia Killcrece, Klaus-Peter Kossakowski, Robin Ruefle, and Mark Zajicek. 2003. State of the practice of Computer Security Incident Response Teams (CSIRTs). Carnegie Mellon University, Software Engineering Institute
<http://www.cert.org/archive/pdf/03tr001.pdf>. 291 pages

Sawicka, Agata, Jose J. Gonzalez, and Ying Qian. 2005. Managing a CSIRT. The 23rd International Conference of the System Dynamics Society, Boston, USA. 20 pages

Wiik, Johannes, Jose J Gonzalez, and Klaus-Peter Kossakowski. 2005. Limits to effectiveness of Computer Security Incident Response Teams (CSIRTs). The 23rd International Conference of the System Dynamics Society, Boston, MA. 22 pages

IKT702 Selected Topics in Security for Mobile Systems

Chris J. Mitchell (ed.) Security for Mobility. Publisher: Institution of Electrical Engineers; 2003, 464 pages.

V. Niemi and K. Nyberg, UMTS Security, John Wiley & Sons, 2003, 288 pages.

Some journal and conference publications (will vary from year to year)

IKT703 Mobile Fading Channels

M. Pätzold, Mobile Fading Channels. Chichester: John Wiley & Sons, 418 pages, February 2002.

M. Pätzold, Mobile Fading Channels. Agder University College, lecture notes, 640 pages, 2006.

IKT706 Using Semantics to Generate Code

Jack Greenfield, Keith Short, Steve Cook, Stuart Kent, John Crupi: Software Factories: Assembling Applications with Patterns, Models, Frameworks, and Tools, 666 pages

Prinz, Andreas: Formal Semantics for SDL, Habilitation thesis, Humboldt-University, Berlin, 2001, 170 pages

Martin Große-Rohde: Semantic Integration of Heterogeneous Software Specifications, Springer, 2004, 327 pages

Ileana Ober: Harmonizing Design Languages with Object-Oriented Extensions and an Executable Semantics. PhD thesis, Institut National Polytechnique de Toulouse, April 2001

Material from www.pats.no

IKT709 Advanced Protocols for Mobile Communications

About 20 selected papers mainly from IEEE or ACM journals and conference proceedings

IKT710 Learning in Random Environments

K. S. Narendra and M. A. L. Thathachar. Learning Automata: An Introduction, 1989. Chapter 1 – 5. 197 pages

IKT711 Principles of Pattern Recognition

Richard O. Duda, Peter E. Hart, and David G. Stork. Pattern Classification, 2nd Ed., Morgan Kaufman, 2001. Chapter 1 – 5. 270 pages