

On “Selected topics in SE and contemporary computing technologies”

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What is it?

- Book
- Editors: Z. Budimac, M. Ivanović
- Authors: with many more people
- Sources: diploma theses and other surveys (already existing)
- 10 chapters, 317 pages, in Serbian
- Aim (for students):
 - Induction for master studies in some topics
 - Overview: to find interesting areas for further study, Master theses



1. Requirements engineering



- Authors: I. Štrtak, ...
- Pages: 1- 37
- Introduction
 - *Software engineering*
 - *Requirements specification*
 - *Use cases*
- IEEE recommended practice in writing specifications
 - *Overview*
 - *References for SRS*
 - *Definitions of SRS-a*
 - *Towards good SRS*
 - *Part of SRS-a*
- Example
 - *Writing specifications according to IEEE Std 830-1998*
 - *Organizing project based on requirements in "MS Project"*
- Conclusions and further reading

2. Capability maturity model



- Authors: S. Šteković, ...
- Pages: 39 – 73
- Introduction
- Framework for process maturity
- Five levels of maturity
- Operational definition of capability maturity model
- Using the model
- Integrated capability maturity model
- Conclusions and further reading

3. Personal software process



- Authors: Ž. Komlenov, ...
- Pages: 75 – 124

- PSP philosophy
- PSP0 – PSP0.0 & PSP0.1 – basic personal process
- PSP1 – PSP1.0 & PSP1.1 – personal project management
- PSP2 – PSP2.0 & PSP2.1 – personal quality management
- PSP3 – cyclic process
- PSP results
- PSP in university education
- Conclusions and further work

4. Software metrics – OO metrics



- Authors: Z. Putnik, F. Prentović, ...
- Pages: 127 – 180

- Introduction
- History, classifications i scopes of software metrics
- Overview
- Overview of OO software metrics
- Analysis of software metrics applications to software product
- Conclusions and further readings



5. E-business

- Authors: A. Klašnja, ...
- Pages: 181 – 208

- Electronic business
- Retail and Web
- Basic marketing concepts
- Security of e-business
- Conclusions and further readings



6. Workflow

- Authors: D. Pešović, ...
- Pages: 211 – 231

- Business processes
- Design of ...
- Workslow and processes
- Workflow definition
- Dimensions of workflow
- Taxonomy of workflow
- Metamodel
- Workflow execution
- Workflow specifications
- Wider concepts and terminology
- Conclusions and further readings



7. Agents

- Authors: M. Badjonski, ...
- Pages 233 – 265

- Agents
- Overview of IAO programming languages and tools
- Tools and languages for mobile agents
- Java
- Conclusions and further readings



8. Mobile agents

- Authors: D. Pešović, Z. ...
- Pages: 269 – 278

- Definition
- Mobility concept
- Communication mechanisms
- Security
- Application areas
- Conclusions and further readings

9. Machine learning on (hyper)text



- Authors: M. Radovanović, ...
- Pages: 281 – 304

- Introduction
- Document representation
- Classifications
- Clustering
- Conclusions and further work

10. Applications of machine learning in web-mining



- Authors: M. Radovanović, ...
- Pages: 305 – 315

- Introduction
- Extended Internet search
- Visualizations
- Help in searching the Internet
- E-mail filtering
- Conclusions and further work



By the way...

- Hussein Zedan sent the warmest regards to all of you that he knows
- To Stani: he did not forgot to answer your mail, he just do not have the time