

3rd Workshop on Software Engineering Education and Reverse Engineering Ohrid, Macedonia, August 25 - 31, 2003

Organizer

Institute of Informatics, University of Skopje, Skopje, Macedonia

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Web sites

<http://www.informatik.hu-berlin.de/swt/intkoop/index.html>

<http://www.informatik.hu-berlin.de/swt/intkoop/se/index.htm>

Background

The workshop is being supported by the German organization DAAD (German academic exchange services) with participants from universities of Albania, Bosnia & Herzegovina, Bulgaria, Croatia, Germany, Macedonia, Romania, and Serbia & Montenegro.

This meeting is conducted under the auspices of 'Stability Pact for South Eastern Europe' aimed at the improvement of educational and scientific conditions of countries in that region.

Goals

The aim of the workshop is an exchange of ideas in the field of SE (software engineering) education in a general computer science (informatics) curriculum.

In particular, the introduction of compatible SE courses at each of the universities is a special goal.

In addition, cooperative and distributed software engineering and reverse engineering project activities will be discussed.

The XCTL system shall be used as a case study to be accessed by different parties. This system is a real-life software system used in experimental physics which is being renovated in students' projects at Humboldt University.

The third workshop is especially devoted to dissemination of results and planning of the future work of the project.

Timetable overview

24 August - Arrival

25 August 13.00 - 17.30 (Monday)

26 August 09.00 - 14.15 (Tuesday)

27 August 09.00 - 14.45 (Wednesday)

28 August 09.00 - 14.15 (Thursday)

29 August 09.00 - 14.50 (Friday)

30 August 09.00 - 12.00 (Saturday)

31 August - Departure

Workshop program

A. Introduction

- *K. Bothe (Berlin)*: Three years of cooperation under the auspices of the Stability pact for south eastern Europe (short introduction)
- *D. Kalpić and K. Fertalj (Zagreb)*; *N. Nosović (Sarajevo)*, *S. Marić (Banja Luka)*, *I. Jurca (Timisoara)*, *L. Jubica (Tirana)*: Background concerning the home institute, education and own research interests

B. Joint course on SE

General overview

- *K. Bothe (Berlin)*: The joint course in SE: past, present, and future
- *Z. Budimac (Novi Sad)*: The current state of the SE joint course web site
- *Z. Budimac (Novi Sad)*, *K. Bothe (Berlin)*: Style and usage guides for slides: a textual and an animated version
- *K. Bothe (Berlin)*: Review reports: a means to collect experience and feedback
- *K. Zdravkova (Skopje)*: Copyright policy
- *K. Bothe (Berlin)*: Update policy
- *Z. Budimac (Novi Sad)*: Experience with the course in Novi Sad

Special topics of the SE course: presentation and remarks

- *K. Bothe (Berlin)*: On the structure of the course on software engineering
- *Z. Budimac (Novi Sad)*: 1. What is software engineering?
- *K. Zdravkova (Skopje)*: 3. Software process models
- *D. Bojić (Belgrade)*: 4. Basic concepts for the description of software development documents
- *Z. Budimac (Novi Sad)*: 5. Results of the phase 'analysis and design'
- *N. Ibrajter (Novi Sad)*: 7. Basic concepts of function-oriented view
- *Z. Budimac (Novi Sad)*: 10. Structured Analysis
- *A. Stoyanova-Doycheva (Plovdiv)*: 11. Basic concepts for the state-oriented view
- *Z. Budimac (Novi Sad)*: 13. Object-oriented analysis
- *M. Ivanović (Novi Sad)*: 14. Formal software specifications
- *Z. Putnik (Novi Sad)*: 15. Overview of design activities
- *Z. Putnik (Novi Sad)*: 16. Structured design
- *Z. Putnik (Novi Sad)*: 17. Object-oriented design
- *B. Jakimovski (Skopje)*: 18. Implementation
- *K. Schützler (Berlin)*: 28. Configuration and version management

For two selected topics all participants shall try to prepare a review report (topic 12 before and topic 10 during the workshop)

Organizational environment:

- *K. Schützler (Berlin)*, *Z. Budimac (Novi Sad)*: Assignments (practical exercises) in a SE course
- *M. Kresojević, I. Pribela, N. Ibrajter (Novi Sad)*: Implementation of a case study (Seminar Organization)

Distance learning - e-learning:

- *K. Zdravkova (Skopje)*: E-learning opportunities for the joint course - prototype 1
- *S. Stoyanov (Plovdiv)*: E-learning opportunities for the joint course - prototype 2
- *S. Joachim, K. Bothe (Berlin)*: Current trends in e-learning and the impact on the joint SE course
- *E. Doychev, M. Georgieva, S. Stojanov (Plovdiv)*: DeLC - Distributed eLearning Center

C. General SE topics: Projects

- *M. Cvetanović (Belgrade)*: Dynamic reverse engineering from object code
- *A. Mišev, V. Ajanovski (Skopje)*: Evaluation of data bases on software projects: general description, inclusion of some project examples
- *V. Ajanovski, A. Mišev (Skopje)*: International workshops on global software development 2002, 2003

D. XCTL and distributed SE over the internet

- *K. Schützler, U. Sacklowski, K. Bothe (Berlin)*: Progression of the XCTL system
- *K. Schützler (Berlin)*: Automated regression testing (of XCTL using ATOS)
- *D. Bojić (Belgrade)*: Architectural investigation of XCTL by URCA
- *A. Stoyanova-Doycheva, B. Botev, R. Gospodinov (Plovdiv)*: Experiments with the XCTL system
- *U. Sacklowski (Berlin)*: Visualization of the use of XCTL by multimedia means