

Zoran Budimac, Valentino Vranić, and Ján Lang (Editors)

# Tenth Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications

## SQAMIA 2023

Bratislava, Slovakia, September 10–13, 2023

### CEUR Workshop Proceedings

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## Preface

The Tenth Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2023, <http://sqamia2023.fiit.stuba.sk/>), held at the Slovak University of Technology in Bratislava, Slovakia on September 10-13, 2023, was marked by the loss of Zoran Budimac. Zoran established the SQAMIA series of workshops within the SQAMIA Initiative (<https://perun.pmf.uns.ac.rs/sqamia/>) and invested his enthusiasm and energy in keeping them going on. He did this also this last time. He died less than two weeks before the workshop. I hope we did everything as Zoran would have wanted it to be and made this anniversary meeting yet another quality venue in the SQAMIA series for computer scientists who deal with software quality research.

SQAMIA 2023 attracted 26 submissions out of which 19 were presented at the workshop and accepted for publishing in these proceedings. These papers deal with the quality of relating people and code, software modularization, IoT and real time systems, data and learning systems, and automated approaches and applications. These are important aspects of software quality and I am happy we had such a coverage of the area. As always, the workshop was open to position papers, reports on work in progress, reports on new tools, or other discussion provoking papers. And we had lots of discussion going on during the sessions and in between them.

SQAMIA 2023 featured two great keynotes. The one delivered by Uwe Zdun (Vienna University of Technology, Austria) dealt with a tremendously important topic of conformance assessment and detection strategies in continuously delivered microservice architectures. The keynote delivered by Jaroslav Porubän (Technical University of Košice, Slovakia) reminded us how even a single letter matters in software development and gave us insight into the methods and tools for improving software understanding. You may find the abstracts of these keynotes in the proceedings along with the links to the corresponding video recordings.

I would like to thank all the authors who submitted their papers to SQAMIA 2023 and all the members of the program committee and additional reviewers for their efforts in reviewing the papers. I am in particular thankful to Uwe and Jaro for accepting the invitation to deliver their keynote speeches.

I am thankful to Mirjana Ivanović, Zoran's wife and closest scientific collaborator, for finding strength to help us with putting the workshop program together and for coming to SQAMIA 2023. Apart from Ján Lang, the SQAMIA 2023 organizing chair, many other people from the Slovak University of Technology in Bratislava contributed to make SQAMIA 2023 run smoothly: Tomáš Frtala, Michaela Sabolová, Zuzana Macková, Ľubica Palatinusová, Zuzana Marušincová, Ján Böjtös, and Alexandra Skyvová. I would like to express my sincere thanks to all of them.

Valentino Vranić

SQAMIA 2023 General Chair

Bratislava, October 1, 2023

## Professor Zoran Budimac



Zoran Budimac was born in 1960 in Serbia. The academic rank of full professor he had got from University of Novi Sad in 2004. He worked at the Faculty of Sciences, University of Novi Sad, Serbia. He was one of the best students of the first generation of the informatics studies at the Faculty of Sciences. He was one of the few colleagues from the department who established, led, and continuously improved modern studies in informatics, computer science, and software engineering at the Faculty of Sciences, University of Novi Sad.

During his long fruitful academic career, he had a significant and essential impact and influence on study programs, innovations, and scientific work with young colleagues and assistants for the informatics part of the Department of Mathematics and Informatics, Faculty of Sciences. As a creative and visionary person, he persistently insisted on the introduction of world standards into educational and teaching processes. All these activities were based on several important and influential international projects and cooperation with recognized European universities. His academic network and cooperation with international institutions and colleagues encompasses more than twenty countries all over the world. He is meritorious for getting first big international projects in computer science and informatics at the Faculty of Sciences.

He has published more than 300 research papers in the areas of agent technologies, software engineering, and learning technologies, 16 books, and one international monograph. He presented his work at more than 180 international conferences. He also delivered numerous invited speeches at different universities all over the world (Austria, Australia, Bulgaria, China, Germany, Hungary, Thailand, Poland, Portugal, Romania, Slovakia, Slovenia, Turkey, and so on). He was the principal investigator of numerous big national and international projects.

During his career, he was a member of different important faculty and university bodies. For a long period, he served as the head of several computer laboratories and the Head of the Chair of Computer Science, a member of the University Council for Informatics, and a member of the management committee of an international journal. In the last ten years, his scientific interests were in various aspects of software quality. He was an adored and outstanding teacher and excellent scientist, but also an exceptional person with a specific sense of humor.

Mirjana Ivanović

Novi Sad, October 3, 2023

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