PSSOH Conference Report

Applications of Free Software and Open Hardware

PLACE & DATE of the Conference: main building of the University of Belgrade – School of Electrical Engineering (ETF), Bulevar kralja Aleksandra 73, 11000 Belgrade (ground floor, room 56), October 26, 2019.

The second PSSOH conference consisted of 17 lectures related to the applications of free software and open hardware and to women and other minority groups representation in the electrical engineering and computer science in 5 sessions: (1) open-source culture and community, (2) free software and open hardware in electrical engineering and computer science, (3) open and free software in social sciences, humanities, and medicine, (4) free software and open hardware in education, and (5) women in electrical engineering and computer science. The conference started with the opening ceremony and two welcome speeches that were held by ETF Dean Prof. Dr. Milo Tomašević and by Prof. Dr. Miloš Cvetanović on behalf of our Editorial board. Final program is available on Zenodo repository (doi: 10.5281/zenodo.3474848) and our Proceedings is available on our website at http://pssoh.etf.bg.ac.rs/img/PSSOH%20Proceedings%202019.pdf. We are very proud on our diversity of topics. To name a few: patents, communities in Serbia gathered around idea of free software, Wikidata, GitLab business model, autonomous driving, symbolic analysis of electric circuits, free software in electromagnetic modeling and in robotics, digital technologies in humanities, open science practices, overview of statistical software in medicine, free software in education, factors promoting higher women's digital literacy, and historical gender gap at the University of Belgrade.

In 2019., the majority of PSSOH lecturers were from the University of Belgrade (School of Electrical Engineering, Faculty of Philosophy, Faculty of Medicine, and Faculty of Organizational Sciences), and from Institutes and Laboratories from Belgrade (Institute of Economic Sciences, Institute for Psychology, Laboratory for Research of Individual Differences at the University of Belgrade, Institute for Balkan Studies of Serbian Academy of Sciences and Arts – SASA, and Institute of Technical Sciences of SASA), but also from the Intel Labs from Spain, University of Ss. Cyril and Methodius from Skopje Macedonia, GitLab, Zamphyr OÜ, Wikimedia Serbia, LiBRE! magazine, Htec, and Rehabilitation Clinic "dr Miroslav Zotović" from Belgrade.

As announced in 2018., we presented 4 books in the Proceedings chapter that highlighted the tradition of open educational resources at the ETF: (1) Numerical Mathematics (in Serbian *Нумеричка математика*) by Nataša Ćirović; (2) Laboratory assignments for electrical measurements (in Serbian *Лабораторијске вежбе из електричних мерења*) by Predrag Pejović; (3) Practicum in Mathematics 2 – Collection of solved assignments (in Serbian *Практикум из математике 2 – Зборник решених тестова основног знања*) by Ivana Jovović, Tamara Koledin, and Bratislav Iričanin; and (4) Methods and instrumentation for electrical measurements (in Serbian *Методе и инструментација за електрична мерења*) by Nadica Miljković.

Logistics for the conference were provided by the organizer, University of Belgrade – School of Electrical Engineering, with strong support of the Dean Prof. Dr. Milo Tomašević. Eight volunteers participated in the conference organization that was supported by two public donors Academic Mind from Belgrade, Serbia, and COMTRADE System Integration from Belgrade, Serbia. Many partners supported our event: University of Novi Sad – Faculty of Technical Sciences, Laboratory for Information Technologies from the University of Ljubljana

– Faculty of Electrical Engineering, Teodesk company from Belgrade, KELM laboratory from Novi Sad, BeFEM Feminist Cultural Center from Belgrade, Serbia, Data Science Serbia, Women's studies center from Belgrade, Serbia, R-Ladies Belgrade, LiBRE magazine, Free Software Foundation Europe, Laboratory for Research of Individual Differences at the University of Belgrade, Wikimedia Serbia, Journal of Women's Entrepreneurship and Education (JWEE), Tilda Center, Haklab, Fedora Serbia, and AMRES – Academic Network of Serbia.

We are also supported by our partner conferences Libre Planet Conference organized by Free Software Foundation, PyCon Balkan, "Let it be MIT" Conference from the University of Novi Sad, Serbia, and SatRday Conference in Belgrade Serbia. Exhibition area of the PSSOH Conference consisted of the FSFE and Fedora tables. They both attracted lots of attendees' attention.

DATE of the post-conference events: November 2, 2019.

Post-conference events included following three workshops:
- *Wikipedia editing workshop* held by I. Madžarević and N. Ratković (doi: 10.5281/zenodo.3516907)
- *Symbolic circuit analysis on Android* by D. V. Tošić and M. M. Potrebić (doi: 10.5281/zenodo.3516732)
- *Open research data practices for researchers* by N. Miljković, Lj. B. Lazarević, O. Vučkovac, and M. Ševkušić (doi: 10.5281/zenodo.3471052)

Overall, 36 participants attended post-conference events (21 of them attended workshop on *Open research data practices for researchers*). More than 100 people attended PSSOH conference with majority of them being university students and professors.

All relevant information can be found at PSSOH site (http://pssoh.etf.bg.ac.rs/), GitHub (https://github.com/pssoh) and Twitter pages (https://twitter.com/pssoh_etf), as well as at our Communities on Zenodo repository (PSSOH Conference Community, PSSOH 2018 Conference Community, and PSSOH 2019 Conference Community). In 2019, we started uploading our pictures on Flickr (https://www.flickr.com/people/186039347@N04/), so you can check our account for selected pictures.

The result of post-conference PSSOH 2019 questionnaire with 42 responses is available online at https://docs.google.com/forms/d/1JM00KJzCllpYkV3Drtx8pNk99HVu3uNNUP-pk5TaeoM/viewanalytics.