

Evaluation of the doctoral studies of Jaroslav Pastorek

Written by supervisor Ing. Vojtěch Bareš, Ph.D.

Jaroslav Pastorek has started his doctoral studies in October 2016. Jaroslav Pastorek studied in regular form of study programme. Next to, he was employed at the department as co-worker at national research project on given topic. He also passed the internship at EAWAG Institute in Switzerland where he improved his skills in stochastic modelling and uncertainty prediction. In May June 2022 he submitted his dissertation for evaluation. I considered the study time plan and his fulfilment as smooth however his studentship was affected by Covid Pandemic when he spent almost one year in his home town in Slovakia.

The topic of the PhD thesis, the application of rainfall intensities from telecommunication microwave links for urban rainfall-runoff modelling, is closely related to our research projects during past decade. In the thesis, he continued in his work started during his bachelor and master study programme.

His PhD thesis is written in English and is structured as a compilation of separate manuscripts accepted or submitted to peer-reviewed journals with introduction and conclusion section. The thesis is evaluated by relevant reviewers from international community from the field of rainfall retrieval and hydrology.

During his study Jaroslav Pastorek produced 18 works on given topic which were published in relevant peer-review journals or presented at international or local conferences, predominantly he is listed as first author. One manuscript was published in *Journal of Environmental Management* second in *IEEE Transactions on Geoscience and Remote Sensing*, third one is being submitted to *Journal of Hydrology* these days.

My subjective evaluation. Jaroslav was a very hardworking and efficient student, he is very skilled in programming, in numerical simulations and data analysis. On the contrary, his weaknesses are mainly in the field of interpretation of results, putting them in context and presenting them to a wider audience. Research discussions with him have often been very tough because he always wants to do things on his own. Which is sometimes an advantage, sometimes a disadvantage. Jaroslav decided not to continue in academic carrier and he started to work in insurance company to use his skills in hydrological modelling for flood risk predictions.

I wish you him all the best for future live and I believe he will defend his thesis today.

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