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### **Review of the habilitation thesis by RNDr. Zuzana Černeková, Ph.D.**

I was asked to review the habilitation thesis of Zuzana Černeková, who has been working at the Department of Applied Informatics, Faculty of Mathematics, Physics, and Informatics, Comenius University in Bratislava. I met the candidate personally once or twice a few years ago when I visited the group of late Assoc. Prof. Milan Ftáčnik in Bratislava for an afternoon. We did not do any research together.

The provided habilitation thesis is written in English in two parts on 74 pages. The first part is the commentary on 19 pages unifying her scientific activities in computer vision under the title Selected feature-based solutions. The second part is a collection of eight papers coauthored by Zuzana Černeková. She is the first author of three papers from this collection. One of the papers was published in a journal and has the highest number of citations. The contributions span the years 2006 to 2021.

The papers demonstrate a quite broad scientific interest in computer vision. I would be also curious if the scientific activity found its way to practical applications. The habilitation thesis does not talk about it much.

Papers reported in the habilitation thesis demonstrate the solid scientific expertise of the candidate. Even the list of publications could be more impressive, the candidate has performed credible work over years. She also contributed to the education of young researchers. I could observe indirectly from the thesis one distinct virtue of the candidate. She works well in teams.

Finally, I am assessing if the candidate is eligible for the Docent (Associate Professor) title. My answer to the question is yes for the following reasons: (1) The candidate has shown the ability to conduct good quality research and publish its result; (2) She has enough international experience.

*To conclude, I believe that RNDr. Zuzana Černeková, Ph.D. proved in her research, other university activities, and the reviewed thesis that she deserves to be promoted to the associate professor rank.*

Sincerely Václav Hlaváč