Supervisor's statement to the dissertation thesis of Jakub Špaňhel

The dissertation thesis of Jakub Špaňhel deals with research and development of computer vision algorithms for intelligent transportation systems and traffic surveillance. The research contributed in multiple particular fields: vehicle re-identification, recognition of vehicular license plates, geometrical processing of observed cars, and development and labeling of datasets.

Jakub published a number of articles that already obtained citations and were used in the research and industrial community. Besides publications, he considerably contributed to the collecting and processing of datasets that are being used by the community for the development and benchmarking of algorithms.

Aside from the dissertation thesis topic, Jakub also contributed to other, related fields: he did management, engineering, and research work within multiple scientific and industrial projects and he was very active in respected open computer vision challenges, namely AI City Challenge. Jakub has also always been a highly contributing member of the research group Graph@FIT.

Without any doubt, I recommend the thesis to be accepted and I support awarding the PhD degree to Jakub Špaňhel.

In Brno, August 29th, 2023

prof. Ing. Adam Herout, Ph.D.