

Supervisor's assessment – Assoc. Prof. Jiri Hosek, Ph.D.:

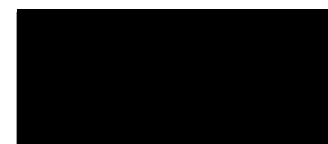
MSc. Justyna Skibinska embarked on her doctoral studies in September 2019 as part of the H2020 Marie Sklodowska-Curie Innovative Training Network (ITN)/European Joint Doctorate (EJD) project called A-WEAR. Despite entering a challenging new environment, Justyna quickly adapted and actively engaged in her research, along with other professional activities at the Department of Telecommunications, Faculty of Electrical Engineering and Communication, Brno University of Technology. These activities included supervising practical laboratories and computer exercises in courses related to machine learning (ML), data structures, and algorithms, as well as coordinating student projects. Right from the start, Justyna demonstrated a profound understanding of modern AI/ML technologies and their application in creating support system methodologies for detecting COVID-19 and Parkinson's disease using wearable devices. Coupled with her diligence, determination, and rapid learning, Justyna was able to generate high-quality research results quickly and publish them in top scientific IEEE or Elsevier journals, as well as premier international conferences.

As a double-degree student in a program jointly implemented by Brno University and Technology (BUT) and Tampere University (TAU), Justyna was supervised by professors from both universities (Assoc. Prof. Radim Burget and Assoc. Prof. Jiri Hosek at BUT and Prof. Yevgeni Koucheryavy at TAU). Justyna fully exploited this unique opportunity, closely cooperating on various research tasks with other doctoral students at both universities and within the A-WEAR project, significantly enhancing the overall quality of her partial research results and her entire doctoral thesis.

Justyna stands out for her systematic work, reliability, and independence, which is evident in every task she undertakes. She has co-authored a total of 5 journal articles and 5 conference papers (being the first author in 8 of them), an above-average outcome for a three-year doctoral study. In addition to actively publishing her research results, Justyna fulfilled all the study requirements at both universities, as well as those of the A-WEAR project, which was particularly challenging.

All the aforementioned achievements confirm that MSc. Justyna Skibinska has successfully demonstrated her ability to independently conduct scientific research. She has also fulfilled all the required activities related to the doctoral double-degree study program. Therefore, I consider Justyna's dissertation and her current scientific results to be of high quality and extensive enough to be submitted to the examination board for evaluation. In the event of a successful defense, I recommend granting the academic title of Ph.D. to MSc. Justyna Skibinska.

In Brno, 7. 11. 2023



Assoc. Prof. Jiri Hosek, Ph.D.