

## Statement of the supervisor

Ph.D. student: MSc. Raphael Kwaku Botchway

Supervisor: assoc. prof. Zuzana Komínková Oplatková, Ph.D.

PhD student MSc. Raphael Kwaku Botchway started his PhD studies in April 2019 at Faculty of Applied Informatics, TBU Zlín. He completed his bachelor studies in Ghana and MSc. degree in the field of Informatics and system engineering at Czech University of Life Sciences in Prague in 2012.

During his studies, he worked hard, passed all exams, and successfully defended the state doctoral exam on 6<sup>th</sup> December 2022.

He was a member of several projects IGA - Internal Grant Agency of TBU, in which his proposed techniques were fully exploited and are presented in his dissertation.

During his studies, he participated in the international internship at Stellenbosch University in South Africa for 3 months. He collaborated with prof. Engelbrecht in the area of binary PSO and angle modulated approach in metaheuristic algorithms, which is part of his Ph.D. thesis.

He cooperated not only with students at FAI TBU but also with students and researchers from the Faculty of Management and Economics, TBU, which led to successful interdisciplinary publications influenced by computer science approach together with economical evaluation. He has published 3 papers in journals with impact factor, 1 in journal indexed in Scopus and 7 at highly evaluated international conferences.

A complete list of activities is attached as an appendix to the PhD student's dissertation application.

I highly appreciate the work of MSc. Raphael Kwaku Botchway and on the basis of his excellent results I recommend his dissertation to be defended.

In Zlín, 18<sup>th</sup> September 2023

Assoc. prof. Zuzana Komínková Oplatková, Ph.D.  
supervisor