

## Model-assisted robust optimization for continuous black-box problems

Ullah, S.

## Citation

Ullah, S. (2023, September 27). *Model-assisted robust optimization for continuous black-box problems*. Retrieved from https://hdl.handle.net/1887/3642009

Version: Publisher's Version

Licence agreement concerning inclusion of doctoral

License: thesis in the Institutional Repository of the University

of Leiden

Downloaded from: <a href="https://hdl.handle.net/1887/3642009">https://hdl.handle.net/1887/3642009</a>

**Note:** To cite this publication please use the final published version (if applicable).

## **Acknowledgements**

I would like to express my deepest gratitude to my supervisors Thomas Bäck, Bernhard Sendhoff, and Hao Wang for their invaluable guidance and support throughout my PhD journey. Their constant encouragement, insightful feedback, and constructive criticism have been instrumental in shaping the direction of my research and improving the quality of my work. Their expertise and unwavering commitment to excellence have been an inspiration to me and have helped me to become a better researcher. I am truly grateful for the privilege of having such remarkable mentors.

I would also like to extend my heartfelt appreciation to my family for their unwavering love, support, and encouragement throughout my academic pursuits. A special thanks to my parents Qazi Naimat Ullah and Farah Deeba for their constant presence, understanding, and encouragement during challenging times. Their unwavering belief in me and my abilities has been the cornerstone of my success, and I cannot thank them enough for their sacrifices and contributions to my achievements. My Ph.D. would not have been possible without their love, support, and encouragement, and I am eternally grateful for having them. Last but not least, I would like to express my love towards my wife Tehreem and my son Daniyal. I love you both very much and find it privileged to have you by my side.

## **About the Author**

Sibghat Ullah was born in 1995 in Dera Ghazi Khan, Pakistan. In 2011, he started his Bachelor in computer science at National University of Computer and Emerging Sciences, Islamabad. In 2016, he moved to Europe to study data science and machine learning at Sapienza University of Rome. After completing his Master in data science, he started as a PhD candidate in the Natural Computing group of Prof. Thomas Bäck in November 2018. During his time as a PhD candidate, he traveled to Germany for research collaborations at NEC Labs Europe GmbH and Honda Research Institute Europe GmbH. His research interests include optimization under uncertainty, model-assisted optimization, explainable artificial intelligence, and learning and mining in the presence of uncertain (industrial) data.