

## **Acknowledgements**

I would first like to express my deep gratitude to my supervisor Professor Abdelbaki As-Safi whose guidance, shared knowledge, mental and psychological support made this work possible. I consider myself tremendously lucky to have been supervised by Professor As-Safi who has created a research environment that is thrilling, productive, light-hearted, motivating and cooperative. Professor As-Safi's energetic commitment to research and mentorship has rubbed off on me. He has given me far more time and guidance than I could have expected or asked for.

I am particularly indebted to the committee members for the feedback they provide and their patience in thoroughly reading through the thesis.

It is also my duty to record my thankfulness to the University of Petra and in particular Dr. Nehal Ameera who has been abundantly helpful starting from the day I joined the university up to the end of the course of this thesis.

I take this opportunity to extend my appreciation to my parents for their generous financial and psychological support. I should not forget my wife for her moral support throughout my MA studies. I express my gratitude to my two kids, Karim and Ahmad, who have been very patient and understanding during the period of my study.

Finally, I would like to express my deepest gratitude to the Royal Jordanian Air Force for granting me the permission to further my studies, and for assisting me in different aspects throughout the duration of my MA Program.