Reply to Professor Janusz Kacprzyk's review

Thank you for taking the time to read and review my dissertation. There are no questions in the review, but I could find many valuable comments and suggestions in it.

In particular, on page 5, you are right when saying that the title of Chapter 5 "Stability in fuzzy systems" is not appropriate and can be misleading. It would have been better to choose a more specific title reflecting on the content of the chapter, like "Sensitivity analysis in fuzzy mathematical programming problems" or "Stability of the fuzzy solution of some fuzzy mathematical programming problems under small changes in the fuzzy number coefficients".

Thank you for recommending me the book on equitable optimization by Hanan Luss. This is a very important book on fair distribution of resources under constraints. Following your suggestion, I will work on generalizing equitable optimization models to the case of linguistic variables.

I was very happy to read your thoughts on fuzzy mathematical programming, where you mentioned your first book on fuzzy optimization (J. Kacprzyk and S.A. Orlovski eds., Optimization Models Using Fuzzy Sets and Possibility Theory, Theory and Decision Library, vol. 4, D. Reidel Publishing Company, Dordrecht, 1987). Actually, Professor Orlovski was the official opponent of my Candidate of Mathematical Science dissertation, which I defended at Lomonosov University at the scientific committee headed by academican Andrey Nikolayevich Tikhonov in 1987. It was not easy to get access to literature in English that time, but fortunately, Professor Orlovski had a spare copy, which he gave me and I was able to learn a state-of-the-art survey of fuzzy optimization models and after returning to Hungary I could start to develop my own models. You also mentioned the name of Margit Kovács. In fact, Kovács and Orlovski were the two most influental scientists who helped me a lot in my early years research.

Thank you again for your throughout and kind review.

Budapest, August 26, 2015

Róbert Fullér