David Miravet<sup>1</sup>

## Abstract

K. Menger introduced in [5] the notion of *probabilistic metric space*. Later, in [4], Kramosil and Michalek extended this spaces and referred to them as KM-fuzzy metric spaces. Finally, in 1994 [1], George and Veeramani modified this last concept and introduced GV-fuzzy metric spaces. The objective is to show the properties of fuzzy metric spaces in the sense of George and Veeramani and study the similarities with metric spaces [3]. As a conclusion, we also show a difference between these two kinds of spaces, that is completability [2].

Keywords: Fuzzy metric space, Completability

- A. George and P. Veeramani, On some results in fuzzy metric spaces, Fuzzy Sets and Systems 64 (1994), 395–399.
- [2] V. Gregori and S. Romaguera, On completion of fuzzy metric spaces, Fuzzy Sets and Systems 130 (2002), 399–404.
- [3] V. Gregori and S. Romaguera, *Characterizing completable fuzzy metric spaces*, Fuzzy Sets and Systems **144** (2004), 411–420.
- [4] K. Kramosil and J. Michalek, Fuzzy metric and statistical metric spaces, Kybernetika 11 (1975), 336–344.
- [5] K. Menger, Statistical metrics, Proc. Nat. Acad. Sci., U.S.A. 28 (1942), 535–537.

Preprint submitted to Fuzzy Sets and Systems

Email address: damifor@alumni.uv.es (David Miravet)