Fuzzy Metric Spaces and Their Generalizations: Theory and Applications

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Description:

Fuzzy metrics introduced by Kramosil and Michalek have constituted a productive field of research both from the theoretical point of view and in their applications. Although fuzzy metrics are metrizable, they show significant differences compared with their classical counterparts. Indeed, fixed point theory in fuzzy metrics is very different. Moreover, fuzzy metrics include a parameter t in their definition, which allows the introduction of new concepts that have no sense in the classical framework. In addition, the aforementioned t parameter provides fuzzy metrics with higher adaptability to be applied in real problems such as image processing or perceptual color difference.