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Copulas and some correlation between cardiovascular disease factors

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Abstract

Nowadays, copulas become an efficient tool for data mining and all fields of Artificial Intelligence (AI)[1]. Recent papers on this way, such as [2], [3] and [4] have deepened the understanding of asymmetry problems and suggested some new asymmetric copulas.

In the current work, we explore mathematically and via practical examples how the extreme values influence directly our understanding of the evolution. Geometrical and topological properties of the set of all copulas will play a central role in the edification of algorithms and experimental apparatus used to detect some aspect of dependence between factors that directly affect the evolution [5]. We apply results on biology, medicine and tail independences between asymptomatic factors of cardiovascular disease. We will take advantage of new asymmetric copulas that were recently defined mainly in [5].

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