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INFORMATION IN METRIC SPACE

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The idea of information in the classic of Fisher and Wiener-Shannon, is a measure only of probabilistic and repetitiveness events. The idea of information is broader than the probability. The Wiener-Shannons axioms are extended to the non probabilistic and repetitiveness events. it is possible introduction of a Theory of Information for events not connected to the probability therefore for non- repetitive events. On the basis of so called Lap laces principle of insufficient knowledge, the MaxInf principle is defined for choose solutions in absence of knowledge In this paper the value of information, as a measure of equality of data among a set of values, is applied in numeric analysis as method for approximation of data, as an example of application. Key words: MaxEnt; Probability; Entropy; Classification; Approximation

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