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The Maths Behind Trustworthy Intelligent Vision Systems

Nowadays, there is an increased use of AI-based technologies in applications ranging from intelligent agents to autonomous vehicles, from Industry 4.0 to Society 5.0. One of the main challenges posed by all these new-generation intelligent systems is their trustworthiness. Hence, this work presents the mathematical modelling that underlies trustworthy intelligent systems and studies its operational use in context of advanced computer vision applications.