基于相关系数的证据冲突度量方法

Measurement of evidence conflict based on correlation coefficient

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作者

宋亚飞, 王晓丹, 雷蕾, 薛爱军

单位

空军工程大学 防空反导学院，陕西 西安 710051

中文摘要：

　　为了更加准确地描述证据间的冲突，在分析证据相关性与证据冲突关系的基础上，给出了证据相关系数的判定准则，基于证据相关系数提出了一种新的证据冲突度量方法，理论证明和数值计算表明该方法可有效表示证据之间的冲突程度，相关系数越大，表明证据间冲突越小，反之亦然。最后通过算例将该冲突度量与其他方法进行对比，结果表明该方法更具全面性和精确性。

英文摘要：

　　In order to measure the conflict degree much better, criteria for correlation coefficient was defined based on analysis on the relation between evidence similarity and conflict. Then a new measurement of conflict was presented based on the definition of correlation coefficient. Theoretic proof and numerical examples verify the efficiency of the proposed measurement. It's illustrated that higher correlation coefficient indicates lower conflict degree between two bodies, and vice versa. Moreover, it has been shown by comparison with other methods that the proposed measurement is more comprehensive and reasonable than other measurements.

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