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An approach to characterize graded entailment of arguments through a label-based framework

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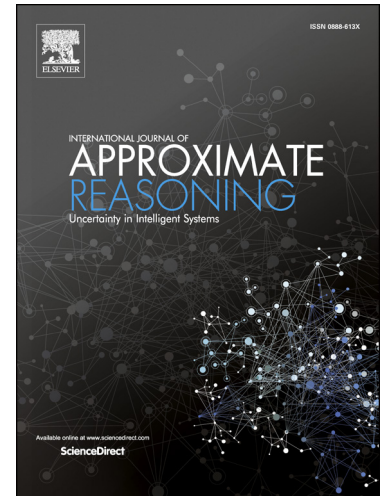
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Highlights

- We redefine the argumentative process to improve the argumentation analysis by considering the special features associated with the arguments which provide more refined results.
- We add meta-level information to the arguments in the form of labels representing quantifiable data ranking over a fuzzy valuations range. These labels are propagated through an argumentative graph according to the relations of support, conflict, and aggregation between arguments.
- We use the label information to establish the arguments' acceptability according to different acceptance levels or acceptability classes and specify when an argument is better than another.
- We define an acceptability threshold to determine whether an argument satisfies certain conditions to be accepted in a particular domain, and to analyze the possible models for a particular real-world problem that determine the optimal justification for a certain conclusion.

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