**Paper**: Constrained Interval Type-2 Fuzzy Classification Systems for XAI

**Published** in 2020 IEEE International Conference on Fuzzy Systems

**Scored** AIA: 10

**The review and scoring of assurance methods:**

Each elemental metric is allocated one point, and each method is either given that point or not (0 or 1), as follows:

* **I. Specificity to AI:** some assurance methods are generically tailored to many systems; others are deployable only to intelligent systems; one point was assigned to methods that focused (i.e. specifc) on the inner workings of AI systems.
* **II. The existence of a formal method:** this metric indicates whether the manuscript under review presented a formal (quantitative and qualitative) description of their method (1 point) or not (0 points).
* **III. Declared successful results:** in experimental work of a method under review, some authors declared success and presented success rates, if that is present, we gave that method a point.
* **IV. Datasets provided:** whether the method has a big dataset associated with it for testing (1) or not (0). This is an important factor for reproducibility and research evaluation purposes.
* **V. AI system size:** methods were applied to a small AI system, other were applied to bigger systems for instance, we gave a point to methods that could be applied to big real-world systems rather than ones with theoretical deployments.
* **VI. Declared success:** whether the authors declared success of their method in reaching an assured AI system (1) or not (0).
* **VII. Mentioned limitations:** whether there are obvious method limitations (0) or not (1).
* **VIII. Generalized to other AI deployments:** some methods are broad and are able to be generalized for multiple AI systems (1), others are “narrow” (0) and more specifc to one application or one system.
* **IX. A real-world application:** if the method presented is applied to a real-world application, it is granted one point.
* **X. Contrasted with other methods:** if the method reviewed is compared, contrasted, or measured against other methods, or if it proves its superiority over other methods, then it is granted a point.

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| **AIA Scoring Category** | **Why?** |
| **Specificity to AI** |  |
| **The existence of a formal methods** |  |
| **Declared successful results** |  |
| **Datasets provided** |  |
| **AI systems size** |  |
| **Declared success** |  |
| **Mentioned limitation** |  |
| **Generalized to other AI deployments** |  |
| **A real-world application** |  |
| **Contrasted with other methods** |  |

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