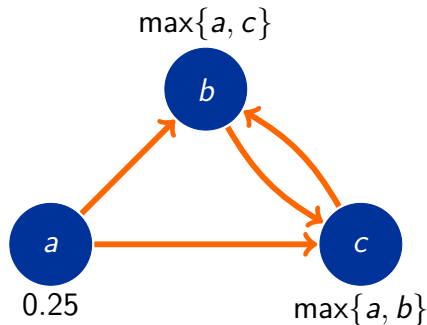


weighted ADFs (IJCAI-ECAI'18)

- *Generalization of Dung's argumentation frameworks ...*
- *... and of Abstract Dialectic Frameworks*



Contributions

- New class of semantics for wADFs
- Study complexity and relation with existing work
- Identified issues in existing work

Over the unit interval

- *Models*: assignments I s.t.
 $I(a) = 0.25$ and
 $I(b) = I(c) \in [0.25, 1]$.
- *Grounded interpretation* assigns 0.25 to a and $[0.25, 1]$ to b and c ,
- *Unique stable model* I :
 $I(a) = I(b) = I(c) = 0.25$.

How?

- New approach to define semantics for wADF's
 - ① Associate a semantic operator with a wADF
 - ② Magically... Approximation Fixpoint Theory (abstract algebraic (lattice-theoretic) framework) provides all semantics for free
- Semantics defined this way: guaranteed conform well-established principles



Know more?

- Poster #183
- But remember... a magician never reveals his secrets