Bruno YUN
Supervised by
M. Croitoru, R. Thomopoulos, S. Vesic

University of Montpellier
Datalog++, Argumentation & Decision-making
Current work

PhD Topic: The added value of argumentative ranking semantics for decision making in Datalog+- KBs

Practical application to innovation in fresh food packaging
Topics I am interested in

1- Logic-based argumentation
2- Ranking semantics
3- Decision making
4- Inconsistency management in Datalog+-
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**Logic-based argumentation:**
How to deal with the **exponential explosion** when instantiating logic based argumentation frameworks?
In which **format should we display** an instantiated **argumentation graph** to experts?

**Ranking semantics:**
How to reason with **ranking semantics** in a **logic based setting**?

**Decision making:**
What is the added value of **argumentation** for **ranking choices** in decision making?

**Inconsistency management in Datalog+-:**
How the chase in Datalog+- affects **defeasible reasoning completeness**?
How to find applicable use cases for **inconsistency management**?