

DLs and rules: expressive power and computational properties

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Description logics (DLs) and rules are both successful knowledge representation formalisms that can be seen as useful compromises for the well-known trade-off between expressive power and computational complexity. They both come in various forms, and they are known to be quite orthogonal in their expressive power. In this talk, I will discuss some of the strong (and weak) points of these two formalisms, and discuss several ways of combining them. In particular, I will try to give some intuition of what it is that makes such a combination dangerous, and which are known harmless such combinations.