

Non-monotonic logics – motivations, examples, applications

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Non-monotonic logics are logical systems for Artificial Intelligence. Typical whole year university course could hardly cover full presentation of his area. I will concentrate on general analysis of non-monotonic logics in terms of consequence operation and natural deduction.

The lecture consist of three parts. In the first part I will present most general ideas and properties of non-monotonic logics. I will present of how non-monotonic logics relate to other logical systems. Then I will present two important classes of non-monotonic logics. Logics definable by cumulative and preferential models and logics of defaults.