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Knowledge-Based Systems

Knowledge-based computer programs are symbolic representation of knowledge. Symbolic inference procedures are used to solve problems such as signal interpretation, language understanding, diagnosis, and the choice of appropriate actions. The analysis of physical/chemical data and data from visual scene is also involved. This seminar will present principles and difficulties in the construction of such programs. It will survey a variety of existing programs and examine in detail case studies. The seminar will include an extensive discussion of the future of programs of this type.

In particular, the interpretation of organic mass spectra, the understanding of continuous speech, and the diagnosis and treatment of certain infections.