航空学报
ACTA AERONAUTICA ET ASTRONAUTICA SINICA
ISSN 1000-6893
CN 11-1929/V

航空学报 » 1987, Vol. 8 » Issue (7) :317-326 DOI:

工程结构的知识工程与专家系统

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KNOWLEDGE ENGINEERING AND EXPERT SYSTEMS IN STRUCTURAL ENGINEERING

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摘要 参考文献 相关文章

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摘要 本文介绍计算机人工智能的一个重要应用分支——专家系统在工程结构设计与检验中的应用及其主要基础知识工程的情况。除了对这门新兴学科的基本概念作一简述以外,文中对知识工程的内容、组成和方法进行了讨论;并结合航空飞行器的设计与检验问题,具体讨论了对其建立专家系统的概念与模型。

关键词:

Abstract: This paper presents the general principles of knowledge engineering that have led the current emphasis on rule-based expert systems and the corresponding fields of knowledge base and inference machine. Software systems that embody knowledge and apply it skillfully seem capable of equaling or surpassing the performance of individual human expert. It . provides a prospective influences in the concepts and methodologies for engineering structure and promises to make knowledge a valuable industrial commodity.Sample-models of inspection, classification and design for aeronautic structures are given for illustrating the technology.

Keywords:

Received 1986-04-02;

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林少培;黄金枝. 工程结构的知识工程与专家系统[J]. 航空学报, 1987, 8(7): 317-326.

Lin Shaopei Huang Jinzi. KNOWLEDGE ENGINEERING AND EXPERT SYSTEMS IN STRUCTURAL ENGINEERING[J]. Acta Aeronautica et Astronautica Sinica, 1987, 8(7): 317-326.