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- knowledge-based (expert) systems for engineering, including knowledge acquisition and representation, control, and system architectures
- theoretical work on the modeling of engineering problem-solving and design processes
- the integration of AI-based techniques with numerical analysis tools, graphics and solid modeling packages, and engineering databases
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Editorial Office: Clive L. Dym, Editor, *AI EDAM: Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, Department of Engineering, Harvey Mudd College, Claremont, CA 91711, USA. Telephone: (909) 621-8853. Fax: (909) 621-8967. E-mail: dym@hmcvax.hmc.edu.

Book Reviews Office: David C. Brown, Book Review Editor, Department of Computer Science, Worcester Polytechnic Institute, Worcester, MA 01609. Phone: (508) 831-5618. Fax: (508) 831-5776. E-mail: deb@cs.wpi.edu.

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