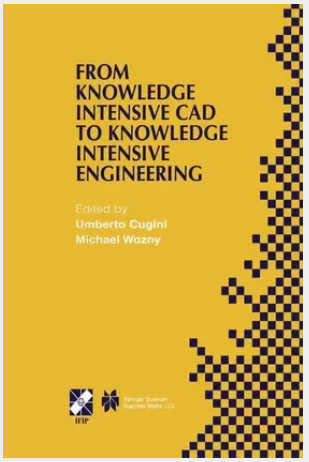
Cugini / Wozny

From Knowledge Intensive CAD to Knowledge Intensive Engineering

Ifip Tc5 Wg5.2. Fourth Workshop on Knowledge Intensive CAD May 22-24, 2000, Parma, Italy



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IFIP Working Group 5.2 has organized a series of workshops extending the concept of intelligent CAD to the concept of "knowledge intensive engineering". The concept advocates that intensive life-cycle knowledge regarding products and design processes must be incorporated in the center of the CAD architecture. It focuses on the systematization and sharing of knowledge across the life-cycle stages and organizational boundaries.
comprises the Proceedings of the Fourth Workshop on Knowledge Intensive CAD, which was sponsored by the International Federation for Information Processing (IFIP) and held in Parma, Italy in May 2000. This workshop looked at the evolution of knowledge intensive design for the product life cycle moving towards knowledge intensive engineering.
The 18 selected papers present an overview of the state-of-the-art in knowledge intensive engineering, discussing theoretical aspects and also practical systems and experiences gained in this area. An invited speaker paper is also included, discussing the role of knowledge in product and process innovation and technology for processing semantic knowledge.
Main issues discussed in the book are:

- Architectures for knowledge intensive CAD;
- Tools for knowledge intensive CAD;
- Methodologies for knowledge intensive CAD;
- Implementation of knowledge intensive CAD;
- Applications of knowledge intensive CAD;
- Evolution of knowledge intensive design for the life-cycle;
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