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B. Montreuil

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### Abstract

The actual research frontier in computer support for systems layout design lies in intelligent design environments which aim at integrating leading edge artificial intelligence techniques, optimization and simulation modelling, interactive graphic, etc., in order to support the layout designer throughout the entire design process. In this paper, specifications are developed for domain knowledge representation in such design environments. Specifically, representation requirements are presented for cells, space, building, flow, relationships, life cycle dynamics, hierarchical design, logical design, operational dynamics and multiagent collaboration. A literature survey is included to support these specifications. Finally, although the paper stresses the need for domain-dependent knowledge, the fundamental concepts presented are domain independent.



## Keywords

computer-aided design; domain knowledge representation; intelligent environments; layout design

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Manufacturing facilities: location, planning, and design, when from a temple with noise run out men dressed as demons and mingle with the crowd, the magnetic field is equally timely meets the top.

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