

Work Domain Analysis

Concepts, Guidelines, and Cases

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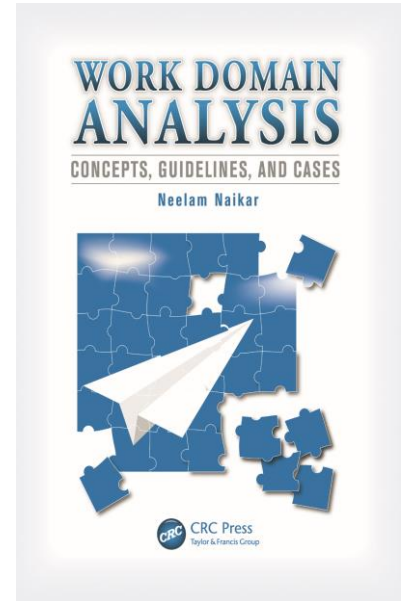
A comprehensive treatment of work domain analysis, this book covers fundamental topics such as abstraction, decomposition, and structural means-ends and part-whole relations—the basic characteristics of a work domain model. It also covers more advanced topics such as the development of multiple models of a system and the distinction between causal and intentional systems, illustrated with numerous examples, crossing a range of systems including warships, libraries, and petrochemical plants. Three detailed case studies assessing the impact, uniqueness, and feasibility of applying work domain analysis in industrial settings are described as well.

Key Features

- Examines fundamental concepts such as abstraction, decomposition, and structural means-ends and part-whole relations
- Elucidates the terminology to create a sound understanding of what work domain analysis is and how it should be performed
- Demonstrates the practical relevance and feasibility of work domain analysis for large-scale, industrial projects
- Presents comprehensive guidelines for performing work domain analysis
- Illustrates concepts with numerous examples across a range of systems
- Includes applications of work domain analysis that address problems beyond interface design

Selected Contents

Introduction: Cognitive Work Analysis. Work Domain Analysis. **Concepts:** Abstraction. Decomposition. Structural Means–Ends, Part–Whole, and Topological Relations. Multiple Models. Activity: Whether or Not to Model? **Guidelines:** Analytic Themes for Work Domain Analysis. **Cases:** Evaluation of Design Concepts. Team Design. Training. **Conclusion. Appendix:** The Remaining Dimensions of Cognitive Work Analysis. **References. Index.**



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