



An Object-Oriented Repository-Based Software Synthesis System (Paperback)

By Gary L Cornn

Biblioscholar, United States, 2012. Paperback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. This research provides a repository on which various Air Force Institute of Technology (AFIT) transformational software synthesis tools can store, share, and manage data using a common repository information model. This information model was created by integrating a variety of separately-developed AFIT software synthesis object models into a wide-spectrum model. Additionally, a methodology for describing complex relationships between artifacts in the repository is described. These relationships can be used to relate software synthesis artifacts created in a variety of formats, including text, binary, and the AFIT Wide-Spectrum Object Modeling Environment (AWSOME) information model. The relationships can be exploited for the retrieval, understanding, and selection of reusable software engineering artifacts. Finally, a methodology that uses the repository relationships to generate a history of the semi-automatically generated designs is described. Future efforts can use the design history to re-create designs automatically when new requirements dictate changes to a related analysis model.



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