



A Knowledge-Based Approach to Program Understanding /

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Monografía

The knowledge-based approach to the automation of program understanding presented here plays an important role in nearly all software related tasks: it is vital to the development, maintenance and re-use activities, and is indispensable in improving the quality of software development. The approach described generates rigorous program documentation mechanically by combining and building on the strengths of a practical program decomposition method, the axiomatic correctness notation, and the knowledge-based analysis approach. Audience: Computer science students at the advanced graduate level and researchers and practitioners interested in software development, maintenance and re-use. Suitable as a secondary text for graduate level courses in software engineering and logic programming, and as a reference for researchers and practitioners in industry

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Contenido: 1 Introduction -- 1.1 Research Goals -- 1.2 Research Approach -- 1.3 Outline -- 2 Background -- 2.1 Loop Analysis -- 2.2 Program Analysis and Understanding -- 3 Overview and Basic Definitions -- 3.1 Definitions -- 3.2 A Loop Taxonomy -- 4 Analysis of Flat Loops -- 4.1 Normalization of the Loop Representation -- 4.2 Decomposition of the Loop Body -- 4.3 Formation of the Loop Events -- 4.4 A Knowledge Base of Plans -- 4.5 Analysis of the Events -- 5 Analysis of Nested Loops -- 5.1 Definitions -- 5.2 Analysis of Inner Loops -- 5.3 Representation of Inner Loops Analysis Results -- 5.4 Analysis of Outer Loops -- 5.5 Adaptation of Inner Loops Specifications -- 6 Discussion of the Analysis Approach -- 7 Case Study -- 7.1 Objectives -- 7.2 Method -- 7.3 Results and Analysis -- 8 Prototype Implementation -- 8.1 Design -- 8.2 Operation -- 9 Applications -- 9.1 Assisting Maintenance and Reuse -- 9.2 Assisting Formal Development -- 10 Conclusions -- 10.1 Summary of Approach -- 10.2 Observations -- 10.3 Future Work -- References

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