Project Factorisations in Partial Evaluation (Distinguished Dissertations in Computer Science)

John Launchbury

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A partial evaluator is a function that takes a program, together with some of the input to the program, and produces a new program as a result. This new program is an optimized version of the old, having taken the input data into account. Prior to partial evaluation, the input program undergoes analysis. This binding-time analysis discovers which values within the program may be computed during partial evaluation--the static values--and which may not--the dynamic values. Partial evaluation has recently become the focus of attention for a rapidly increasing number of researchers because of its potential for global program optimization. It provides a detailed introduction and proceeds to a mathematical treatment of the technique. It is relevant to people interested in automatic program transformation, program optimization, compilers, program analysis, and theoretical computer science. This is the first complete book on the subject of partial evaluation.

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