



Approaches and Applications of Inductive Programming: Third International Workshop, AAIP 2009, Edinburgh, UK, September 4, 2009, Revised Papers (Lecture Notes in Computer Science)

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Inductive programming is concerned with the automated construction of declarative-often functional-recursive programs from incomplete specifications such as input/output examples. The inferred program must be correct with respect to the provided examples in a generalizing sense: it should be neither equivalent to it, nor inconsistent. Inductive programming algorithms are guided explicitly or implicitly by a language bias (the class of programs that can be induced) and a search bias (determining which generalized program is constructed first). Induction strategies are either generate-and-test or example-driven. In generate-and-test approaches, hypotheses about candidate programs are generated independently from the given specifications. Program candidates are tested against the given specification and one or more of the best evaluated candidates are developed further. In analytical approaches, candidate programs are constructed in an example-driven way. While generate-and-test approaches can in principle construct any kind of program, analytical approaches have a more limited scope. On the other hand, efficiency of induction is much higher in analytical approaches. Inductive programming is still mainly a topic of basic research, exploring how the intellectual ability of humans to infer generalized recursive procedures from incomplete evidence can be captured in the form of synthesis methods. Intended applications are mainly in the domain of programming assistance - either to relieve professional programmers from routine tasks or to enable non-programmers to some limited form of end-user programming. Furthermore, in future, inductive programming techniques might be applied to further areas such as support inference of lemmata in theorem proving or learning grammar rules.

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