



Correctness and Completeness (Progress in Theoretical Computer Science)

T. Streicher

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Typing plays an important role in software development. Types can be considered as weak specifications of programs and checking that a program is of a certain type provides a verification that a program satisfies such a weak specification. By translating a problem specification into a proposition in constructive logic, one can go one step further: the effectiveness and uniformity of a constructive proof allows us to extract a program from a proof of this proposition. Thus by the "proposition-as-types" paradigm one obtains types whose elements are considered as proofs. Each of these proofs contains a program correct w.r.t. the given problem specification. This opens the way for a coherent approach to the derivation of provably correct programs. These features have led to a "typeful" programming style where the classical typing concepts such as records or (static) arrays are enhanced by polymorphic and dependent types in such a way that the types themselves get a complex mathematical structure. Systems such as Coquand and Huet's Calculus of Constructions are calculi for computing within extended type systems and provide a basis for a deduction oriented mathematical foundation of programming. On the other hand, the computational power and the expressive (impredicativity !) of these systems makes it difficult to define appropriate semantics.

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