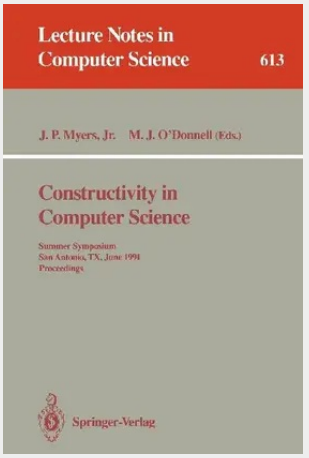
Myers / O'Donnell

Constructivity in Computer Science

Summer Symposium, San Antonio, TX, June 19-22, 1991. Proceedings



Mathematicians have long recognized the distinction between an argument showing that an interesting object exists and a procedure for actually constructing the object. Computer science adds a new dimension of interest in constructivity, since a computer program is a formal description of a constructive procedure that can be executed automatically. It has beenover a decade since a conference was devoted to constructivity, and never before has one been held specifically relating computer science to constructivity. Thus, this proceedings volume is the most concentrated offering ever produced of the diverse ways in which constructivity and computer science are related. The papers cover semantics and type theory, logic and theorem proving, real and complex analysis, topology and combinatorics, nonconstructive graph-theoretical techniques, and curriculum and pedagogic issues. The book offers a concentrated view of the many ways in which constructivity has assumed importance in computer science, and contains results available nowhere else.

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