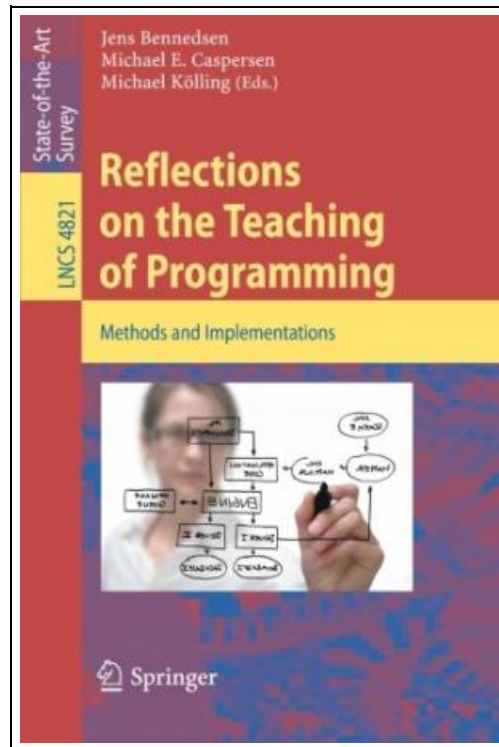


Reflections on the Teaching of Programming



Filesize: 6.16 MB

Reviews

If you need to adding benefit, a must buy book. It can be loaded with wisdom and knowledge I discovered this ebook from my dad and i encouraged this pdf to discover.

(Darrin Kutch)

REFLECTIONS ON THE TEACHING OF PROGRAMMING



Springer-Verlag GmbH Mai 2008, 2008. Taschenbuch. Condition: Neu. Neuware -
For 50 years, we have been teaching programming. In that time, we have seen -
mentous changes. From teaching a first course using an assembly language or F-
tran I to using sophisticated functional and OO programming languages. From
computer touched only by professional operators to computers that children play with.
From input on paper tape and punch cards, with hour-long waits for o- put from
computer runs, to instant keyboard input and instant compilation and execution.
From debugging programs using pages-long octal dump of memory to sophisticated
debugging systems embedded in IDEs. From small, toy assignments to ones that
inspire because of the ability to include GUIs and other supporting software.
From little knowledge or few theories of the programming process to structured
programming, stepwise refinement, formal development methodologies based on
theories of correctness, and software engineering principles. And yet, teaching
programming still seems to be a black art. There is no consensus on what the
programming process is, much less on how it should be taught. We do not do well
on teaching testing and debugging. We have debates not only on whether to teach
OO rst but on whether it can be taught rst. This muddled situation manifests
itself in several ways. Retention is often a problem. Our colleagues in other
disciplines expect students to be able to program almost anything after a course
or two, and many complain that this does not happen. In some sense, we are
still floundering, just as we were 50 years ago. Part of the problem may be that
we are not sure what we are teaching. Are we simply providing knowledge, or
are we attempting to impart a skill? Many introductory texts are oriented at
teaching programs rather than programming; they contain little material on the
programming process and on problem solving. 259 pp. Englisch.



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