Unconventional Programming Paradigms: International Workshop Upp 2004, Le Mont Saint Michel, France, September 15-17, 2004, Revised Selected and Invited Papers

By -

Springer. Paperback. Book Condition: New. Paperback. 367 pages. Dimensions: 9.2in. x 6.1in. x 1.1in.Nowadays, developers have to face the proliferation of hardware and software environments, the increasing demands of the users, the growing number of p- grams and the sharing of information, competences and services thanks to the generalization ofdatabasesandcommunication networks. Aprogramisnomore a monolithic entity conceived, produced and nalized before being used. A p- gram is now seen as an open and adaptive frame, which, for example, can - namically incorporate services not foreseen by the initial designer. These new needs call for new control structures and program interactions. Unconventionalapproachestoprogramminghavelongbeendevelopedinv- iousnichesandconstituteareservoirofalternativewaystofacetheprogram ming languages crisis. New models of programming (e. g. , bio-inspired computing, - ticialchemistry, amorphouscomputing, . . .)arealsocurrentlyexperiencinga renewed period of growth as they face specic needs and new application - mains. These approaches provide new abstractions and notations or develop new ways of interacting with programs. They are implemented by embedding new sophisticated data structures in a classical programming model (API), by extending an existing language with new constructs (to handle concurrency, - ceptions, open environments, . . .), by conceiving new software life cycles and program executions (aspect weaving, run-time compilation) or by relying on...

DMCA Notice | Terms