



## 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 programs and the sharing of information, competences and services thanks to the generalization of databases and communication networks. A program is no more a monolithic entity conceived, produced and analyzed before being used. A program is now seen as an open and adaptive frame, which, for example, can dynamically incorporate services not foreseen by the initial designer. These new needs call for new control structures and program interactions.

Unconventional approaches to programming have long been developed in various niches and constitute a reservoir of alternative ways to face the programming languages crisis. New models of programming (e. g. , bio-inspired computing, molecular chemistry, amorphous computing, . . . ) are also currently experiencing a renewed period of growth as they face specific needs and new applications. 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, exceptions, open environments, . . . ), by conceiving new software life cycles and program executions (aspect weaving, run-time compilation) or by relying on...

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