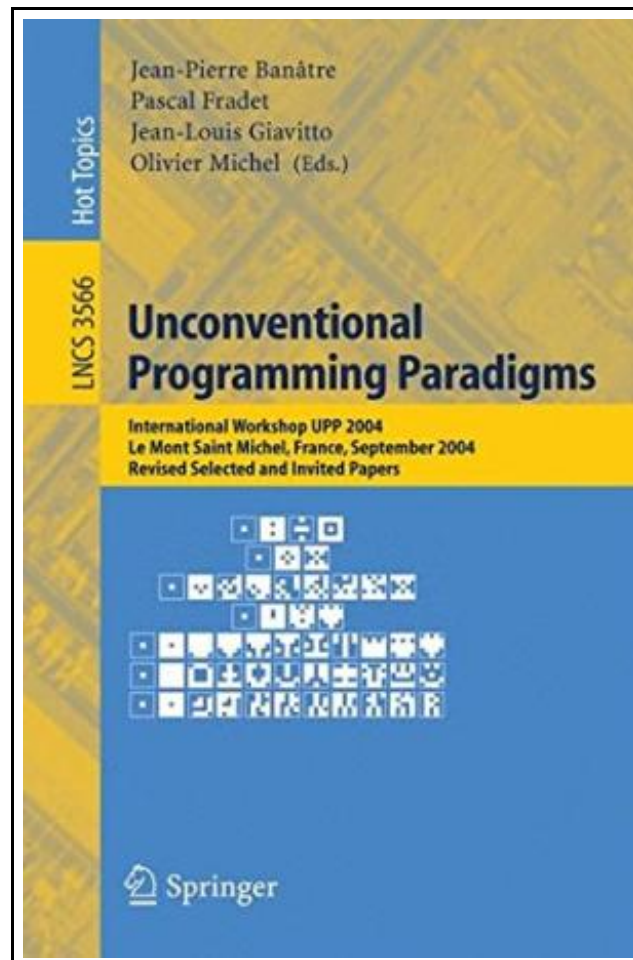


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Springer. Paperback. Book Condition: New. Paperback. 367 pages. Dimensions: 9.2in. x 6.1in. x 1.1in. Nowadays, developers have to face the proliferation of hardware and software environments, the increasing demands of the users, the growing number 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 an entire new paradigm to specify a computation. They are inspired by theoretical considerations (e. g. , topological, algebraic or logical foundations), driven by the domain at hand (domain-specific languages like PostScript, musical notation, animation, signal processing, etc. ) or by metaphors taken from various areas (quantum computing, computing with molecules, information processing in biological tissues, problem solving from nature, ethological and social modeling). This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.

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