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Innovative Teaching Strategies and New Learning Paradigms in Computer Programming

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Innovative Teaching Strategies and New Learning Paradigms in Computer Programming

Ricardo Queirós



Part of the Advances in Higher Education and Professional Development Book Series

Ricardo Queirós (Polytechnic Institute of Porto, Portugal)

Courses in computer programming combine a number of different concepts, from general problem-solving to mathematical precepts such as algorithms and computational intelligence. Due to the complex nature of computer science education, teaching the novice programmer can be a challenge.

Innovative Teaching Strategies and New Learning Paradigms in Computer Programming brings together pedagogical and technological methods to address the recent challenges that have developed in computer programming courses. Focusing on educational tools, computer science concepts, and educational design, this book is an essential reference source for teachers, practitioners, and scholars interested in improving the success rate of students.

Topics Covered:

- Automatic Evaluation
- Collaborative Programming
- Competitive Programming
- E-Learning Standardization
- Exercise Design
- MOOC Management
- Plagiarism Detection

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It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

Ricardo Queirós is an Assistant Professor at the School of Industrial Studies and Management (ESEIG) in Vila do Conde, which is responsible for courses in the area of ICT and Programming Languages. He is a PhD student of the Doctoral Program in Computer Sciences in the Faculty of Sciences of the University of Porto (FCUP). His scientific activity is related with e-Learning Standards and Interoperability, Languages for XML, Architectural Integration, with focus on the development of e-Learning Systems. He is an associated member of the Center for Research in Advanced Computing Systems (CRACS)—an INESC-Porto Associated Laboratory—and a founding member of KMILT (Knowledge Management, Interactive, and Learning Technologies) research group.



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