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Computer Science : Computers and Education

Meyer III, E.F., Falkner, N., Sooriamurthi, R., Michalewicz, Z.

Guide to Teaching Puzzle-based Learning

- Presents a range of general problem-solving strategies that transcend disciplines
- Highlights the importance of introspection and the value of meta-level reasoning in the problem-solving process
- Examines the development of the student in terms of their understanding of knowledge and epistemological progress

This book provides insights drawn from the authors' extensive experience in teaching Puzzle-based Learning. Practical advice is provided for teachers and lecturers evaluating a range of different formats for varying class sizes. Features: suggests numerous entertaining puzzles designed to motivate students to think about framing and solving unstructured problems; discusses models for student engagement, setting up puzzle clubs, hosting a puzzle competition, and warm-up activities; presents an overview of effective teaching approaches used in Puzzle-based Learning, covering a variety of class activities, assignment settings and assessment strategies; examines the issues involved in framing a problem and reviews a range of problem-solving strategies; contains tips for teachers and notes on common student pitfalls throughout the text; provides a collection of puzzle sets for use during a Puzzle-based Learning event, including puzzles that require probabilistic reasoning, and logic and geometry puzzles.

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