Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills

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

Liguo Yu (Indiana University South Bend, USA)

Computer science graduates often find software engineering knowledge and skills are more in demand after they join the industry. However, given the lecture-based curriculum present in academia, it is not an easy undertaking to deliver industry-standard knowledge and skills in a software engineering classroom as such lectures hardly engage or convince students.

Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills combines recent advances and best practices to improve the curriculum of software engineering education. This book is an essential reference source for researchers and educators seeking to bridge the gap between industry expectations and what academia can provide in software engineering education.

Topics Covered:
- Curriculum Design, Redesign, and Improvement
- Developing Management Skills
- Encouraging Teamwork
- Engaging Students to Solve Real-World Problems
- Focusing on Technical Writing Skills
- Integrating Industry Case Studies into Classroom Projects
- Introducing Fresh Knowledge and Technology into the Classroom
- Preparing for Distributed Development and Globalization
- Teaching Communication Skills

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