

1. Record Nr.	UNINA9910746299503321
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Titolo	Software Engineering for Games in Serious Contexts : Theories, Methods, Tools, and Experiences // edited by Kendra M. L. Cooper, Antonio Bucchiarone
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	3-031-33338-1
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (307 pages)
Altri autori (Persone)	BucchiaroneAntonio
Disciplina	794.83
Soggetti	Software engineering Application software Games Software Engineering Computer and Information Systems Applications Games Studies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	- 1. Introduction to Software Engineering for Games in Serious Contexts -- Part I Topics on the Design, Maintenance, Adaptation, and Evaluation of Gameful Systems -- 2. User Experience Evaluation Methods for Games in Serious Contexts -- 3. Software Engineering for Dynamic Game Adaptation in Educational Games -- 4. Performance on Software Architecture Design to Serious Games for Mobile Devices -- 5. ENTRUST: Co-design and Validation of a Serious Game for Assessing Clinical Decision-Making and Readiness for Entrustment -- 6. Engineering Adaptive Serious Games Using Machine Learning -- Part II Topics on Experiences with Gameful Systems -- 7. Future Directions in Games for Serious Contexts: A Conversation About Transferability -- 8. Code-Venture: A Mobile Serious Game for Introductory Programming -- 9. Using Active Learning to Teach Software Engineering in Game Design Courses -- 10. A Framework for the Gamification of GUI Testing -- 11. Applying Leaderboards for Quality Improvement in Software Development Projects -- 12. Designing a Serious Game for Cybersecurity Education -- 13. Grand Challenges in Software

The book highlights several challenges and opportunities in the field of software engineering for serious games. It covers a wide range of topics from game design principles to software architecture, testing, and deployment and is structured into two parts. While Part I delves into various aspects of designing, maintaining, adapting, and evaluating games in serious contexts; Part II focuses on the experiences of realizing and using games in serious contexts. One of the primary challenges is to develop effective methods for evaluating serious games and measuring their impact and outcomes. Another challenge is to design serious games that are both engaging and effective, which requires a deep understanding of game design principles and instructional design. The book also emphasizes the need to develop effective software engineering practices for serious game development and the importance of gamification in improving user engagement and motivation. The potential of serious games for addressing societal challenges such as cybersecurity and healthcare is also highlighted. Despite these challenges, the book also identifies several opportunities for the field, including the potential of serious games to provide new and innovative approaches to learning and the potential of serious games to address real-world problems in new and effective ways. This book is intended for software engineers, game developers, educators, and anyone interested in how games in serious contexts can be effectively created. Overall, the chapters in the book provide a valuable snapshot of the current state of the field and offer insights into where it may be headed in the future.
