

1. Record Nr.	UNINA9910140287403321
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Titolo	Handbook of digital games // edited by Marios C. Angelides, Harry Agius
Pubbl/distr/stampa	Piscataway, NJ : , : IEEE Press Hoboken, New Jersey : , : Wiley, , [2014] [Piscataway, New Jersey] : , : IEEE Xplore, , [2014]
ISBN	1-118-79627-6 1-118-79623-3
Edizione	[First edition.]
Descrizione fisica	1 online resource (781 p.)
Disciplina	794.8
Soggetti	Computer games Video games
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover; IEEE Press; Title page; Copyright page; Contents; Contributors; Introduction; Chapter Summaries; Part I: Gaming Techniques and Tools; Part II: Game Play; Part III: Game Design and Development; Part I: Gaming Techniques and Tools; Chapter 1: Toward the Adaptive Generation of Bespoke Game Content; 1.1 Introduction; 1.2 Methodology; 1.2.1 Generation; 1.2.2 Measurement; 1.2.3 Adaptation; 1.3 Applications; 1.3.1 3D Action Games; 1.3.2 Arcade Games; 1.3.3 Platformers; 1.3.4 Board Games; 1.3.5 Puzzles; 1.3.6 Open-World Games; 1.3.7 Summary; 1.4 Conclusions; Acknowledgments; References Chapter 2: Procedural Content Generation 2.1 Introduction; 2.2 Problems and Solutions; 2.2.1 Memory Restrictions; 2.2.2 Demand for Increasing Detail; 2.2.3 Replayability and Longevity; 2.2.4 Novelty and Innovation; 2.2.5 Ownership and Authorship; 2.3 Online and Offline PCG; 2.3.1 Offline PCG; 2.3.2 Online PCG; 2.4 Key Content Production Areas; 2.4.1 Terrain Generation; 2.4.2 Architecture; 2.4.3 Narrative and Plot; 2.5 Conclusions; References; Chapter 3: Content Generation in a Collaborative Browser-Based Game Environment; 3.1 Introduction; 3.2 Web as a Gaming Platform

3.3 Real-Time Multiplayer Games in Browser  
3.4 Content Generation;  
3.4.1 Content Generation at Development Time; 3.4.2 Content Generation at Run Time; 3.5 Example Game: Caves; 3.5.1 Game Architecture; 3.5.2 Characters; 3.5.3 Quests; 3.5.4 Monsters; 3.5.5 Lessons Learned from Proof-of-Concept Implementation; 3.6 Related Work; 3.7 Conclusions; References; Chapter 4: Automatic Narratives in MMORPGs; 4.1 Introduction; 4.2 Basics of Interactive Drama Management; 4.2.1 Plot Element Structures; 4.2.2 Story Aesthetic Metrics; 4.2.3 Player Modeling; 4.2.4 Quest as an Ideal Storytelling Unit  
4.3 Generating Quest in MMORPGs  
4.3.1 Quest Structures; 4.3.2 Aesthetic Metrics for MMORPG Quests; 4.3.3 A Model for Quest Generators; 4.4 Believable Characters; 4.5 Creating Memorials; 4.5.1 Video; 4.5.2 Comics; 4.5.3 Automatic Memorial Comic/Video Generation Model; References; Chapter 5: Collision Detection with Navigation Meshes; 5.1 Introduction; 5.2 Related Work; 5.2.1 Spatial Data Structures; 5.2.2 Navigation Mesh Generation Techniques; 5.3 Methodology; 5.3.1 Insertion of Objects; 5.3.2 Removal of Objects; 5.3.3 Updating Object Positions; 5.3.4 Find Collidable Objects  
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6.4.3 Developer Guidelines

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### Sommario/riassunto

"The first book to draw the various traditional and emerging facets of gaming together into a single volume, Handbook of Digital Games explores all the necessary facets to design modern digital game, including MPEG-4, MPEG-7, MPEG-21, Virtual Reality, autonomous Artificial Intelligence, social media function, and multi-generational aspect of modern computer games. Featuring over twenty-five international experts from both academia and game industry, this valuable handbook covers all the basics and current trends of computer games for the engineers in the game industry"--

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