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Virtual Immersive and 3D Learning Spaces: Emerging Technologies and Trends



Shalin Hai-Jew (Kansas State University, U.S.A)

Immersive learning has grown in popularity with the development of open-source immersive 3D learning spaces. Those in e-learning have been working to find ways to capitalize on immersive learning through simulations, digital kiosks, live virtual events, live interactivity, instructor-facilitated learning, AI-driven robots, and hyper-realistic experiences.

Virtual Immersive and 3D Learning Spaces: Emerging Technologies and Trends helps push the conceptual and applied boundaries of virtual immersive learning. Virtual immersive spaces bring with them plenty of promise, of sensory information-rich learning experiences that will enable a much wider range of experiential learning and training—delivered to computer desktops, augmented reality spaces, digital installations, and mobile projective devices. This work explains how these spaces may be exploited for effective learning in terms of the technologies, pedagogical strategies, and directions.

Topics Covered:

- 3D Collaborative Interfaces
- Designing and building 3D immersive virtual learning
- Immersive language learning
- Learning assignments in virtual worlds
- Legal and ethical aspects of teaching in selected social virtual worlds
- Non-visual spatial learning
- Scaffolding discovery learning in 3D virtual environments
- Serious games for healthcare education
- Signing avatars
- Virtual worlds

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Shalin Hai-Jew works as an instructional designer at Kansas State University (K-State); she teaches for WashingtonOnline (WAOL). She has taught at the university and college levels for many years and was tenured but left tenure to pursue instructional design work. She taught in the People's Republic of China from 1988 – 1990 and 1992 – 1994, the latter two years with the United Nations Volunteers Programme of the UNDP. She has Bachelor's degrees in English and psychology, and a Master's degree in Creative Writing from the University of Washington (where she was a Hugh Paradise Scholar); she has an Ed.D. (2005) in Educational Leadership with a focus on public administration from Seattle University, where she was a Morford Scholar. She reviews for several publications—Educause Quarterly and MERLOT's Journal of Online Learning and Teaching. She was born in Huntsville, Alabama, in the US.



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Section 1: Virtual Immersive Spaces and their Popularization

Chapter 1

Assessing the Application of 3D Collaborative Interfaces within an Immersive Virtual University

McArdle Gavin (University College Dublin, Ireland)
Schön Bianca (University College Dublin, Ireland)
Bertolotto Michela (University College Dublin, Ireland)

Chapter 2

Virtual Worlds:

Lithgow Catherine M. J. (University of Maryland Baltimore County)
Wolf Judi L. Davidson (University of Maryland Baltimore County)
Berge Zane L. (University of Maryland Baltimore County)

Section 2: Immersive Learning Strategies

Chapter 3

Practice What You Preach:

Benvenuti Laura (Open Universiteit Nederland)
van der Veer Gerrit C. (Open Universiteit Nederland)

Chapter 4

Learning Assignments in Virtual Worlds:

Adamus Tanja (University Duisburg-Essen, Germany)
Ojstersek Nadine (University Duisburg-Essen, Germany)
Nattland Axel (University Duisburg-Essen, Germany)
Kerres Michael (University Duisburg-Essen, Germany)

Chapter 5

Immersive Language Learning in Collaborative Virtual Environments:

Shih Ya-Chun (National Dong Hwa University, Taiwan)

Chapter 6

Unpacking Strong versus Weak Presence in Second Life Enactive Role Play

Ho Caroline M. L. (Nanyang Technological University, Singapore)

Section 3: The Design of 3D Immersive Spaces

Chapter 7

Collaborating to Learn:

Matzen Nita J. (Appalachian State University, USA)
Roberts William Edward (Appalachian State University, USA)
Barker Penny (Ashe County Schools, USA)
Marklin Julie (Davie County Schools, USA)

Chapter 8

Scaffolding Discovery Learning In 3D Virtual Environments:

Lee Mark J. W. (Charles Sturt University, Australia)
Dalgarno Barney (Charles Sturt University, Australia)

Chapter 9

Legal and Ethical Aspects of Teaching in Selected Social Virtual Worlds:

Talab R. S. (Kansas State University, USA)
Botterbusch Hope R. (Kansas State University, USA)

Chapter 10

JavaMOO Virtual Cells for Science Learning

Vender Bradley (North Dakota State University, USA)
Borchert Otto (North Dakota State University, USA)
Dischinger Ben (North Dakota State University, USA)
Hokanson Guy (North Dakota State University, USA)
McClellan Phillip E. (North Dakota State University, USA)
Slator Brian M. (North Dakota State University, USA)

Chapter 11

Capitalizing on Immersive Persistence as an Emergent Design Concept (A Position Paper)

Hai-Jew Shalin (Kansas State University)

Section 4: Technological Accessibility Functionalities

Chapter 12

A Computational Model of Non-Visual Spatial Learning

Patel Kanubhai K. (Ahmedabad University, India)
Vij Sanjay Kumar (SVIT, India)

Chapter 13

Signing Avatars

Adamo-Villani Nicoletta (Purdue University)
Hayward Kyle (Purdue University)

Section 5: Risks in the Immersive Learning

Chapter 14

Crouching Tangents, Hidden Danger:

Garcia-Ruiz Miguel A. (University of Colima, Mexico)
Tashiro Jayshiro (University of Ontario Institute of Technology, Canada)
Kapralos Bill (University of Ontario Institute of Technology, Canada)
Martin Miguel Vargas (University of Ontario Institute of Technology, Canada)

Chapter 15

Mitigating Negative Learning in Immersive Spaces and Simulations

Hai-Jew Shalin (Kansas State University)

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