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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I. Transforming the Learning Environment -- Chapter 1. School Leadership: An Analysis Of Competence Frameworks -- Chapter 2. Putting Flipped Classroom into Practice: A Comprehensive Review of Empirical Research -- Chapter 3. Mobile Device Usage in Higher Education -- Chapter 4. Digital learning technologies in Chemistry education: A review -- Part II. Enriching Student Learning Experiences -- Chapter 5. The Work Of Children: Seeking Patterns In The Design Of Educational Technology -- Chapter 6. How do High school students prefer to learn? -- Chapter 7. Students' self-regulated learning in on-line academic writing in course blog -- Chapter 8. Digital Tool use and self-regulated strategies in a bilingual online learning environment -- Part III -- Measuring and Assessing Teaching and Learning with Educational Data Analytics -- Chapter 9. Evaluation of learning unit design using page flip information analysis -- Chapter 10. Exploring adaptive game based learning using brain measures -- Chapter 11.

Academic retention in the Italian context -- Part IV. Cultivating Student Competences for the Digital Smart Society -- Chapter 12. Measurement of computational thinking in K-12 education: The need for innovative practices -- Chapter 13. Computational Thinking in the Context of Science and Engineering Practices: A Self-Regulated Learning Approach -- Chapter 14. A technology-enhanced pedagogical framework to promote collaborative creativity in secondary education -- Chapter 15. NanoCity: An immersive game to transform student perceptions of science -- Chapter 16. Digital Smart Citizenship Competence Development With A Cyberphysical Learning Approach Supported By Internet Of Things Technologies.

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## Sommario/riassunto

The aim of this volume entitled Digital Technologies: Sustainable Innovations for improving Teaching and Learning is to contribute in the global discussion on digital technologies as the means to foster sustainable educational innovations for improving the teaching, learning and assessment from K-12 to Higher Education. The book consists of four parts and showcases how emerging educational technologies and innovative practices have been used to address core global educational challenges; spanning from rethinking and transforming learning environments across educational contexts to effectively cultivating students' competences for the digital smart society of the future. The book comprises Part I: Transforming the Learning Environment; Part II: Enriching student learning experiences; Part III: Measuring and Assessing Teaching and Learning with Educational Data Analytics; Part IV: Cultivating student competences for the digital Smart society. It targets researchers and research students, educational professional practitioners (including teachers, educators and education leaders) as well as education policy makers, who are interested in keeping up-to-date on the global development in this field.

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