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| Nota di contenuto | 1. Tempting paradoxes -- 2. Learning: A Diverse process -- 3. Philosophical Pillars -- 4. Nature and Culture -- 5. Smart Education -- 6. The entrance of Technology -- 7. Cognitive Learning Tools -- 8. Concept Mapping -- 9. Mapping and Memory Load -- 10. Conceptual Entailments -- 11. Navigation in Hypertext -- 12. Mapping for Hypertext -- 13. Conceptual Awareness -- 14. Explicit Representations |

-- 15. Trailectics for conscience -- 16. Learning, playing, working -- 17. Media as Catalyst -- 18. The Information Age -- 19. ICT in Secondary Education -- 20. Twenty-First Century -- 21. The Use of Web Tools -- 22. Teacher Training -- 23. Searching for Search Engines -- 24. Visual Imagination -- 25. Virtual Reality for Learning -- 26. Virtual Surgical Training -- 27. Educational Design -- 28. Vocational Education -- 29. Construals -- 30. Open Educational Resources -- 31. Steam During Covid-19 -- 32. Programming Skills -- 33. Communities of Practice -- 34. Professional Development -- 35. International Exchange.

Sommario/riassunto

“Renaissance man and philosopher Piet Kommers presents us with an interesting question: What makes education exciting? His book covers a range of lessons learnt through research and practice, covering philosophies and paradoxes, ranging from learning to learn to machine learning for learning. He takes us on an exciting, comprehensive journey of just about every conceivable aspect of technology and education. This is a must-have for every 21st Century bookshelf!” By: Johannes Cronjé, professor of Digital Teaching and Learning at the Cape Peninsula University of Technology, South Africa. “New technologies change teaching, and we need to understand how application of such technologies can improve the learning. This book provides such knowledge and I wish I had it when I started teaching at university many years ago.” By: Jan Frick, Professor at University of Stavanger, Norway. “Piet Kommers delivers a very thorough book with a holistic perspective on Learning Technologies. This book is a result of many years of experience that the author has in Higher Education. It comprises lessons learned from the author’s professional career, including inputs from European Union research projects, as well as diversified interactions with a wide range of Peoples and Cultures .. ” By: Pedro Isaias, associate professor at the University of New South Wales (UNSW – Sydney), Australia. “Distinguished Professor and Thinker Dr. Piet Kommers presents the academic community with a new horizon on education that reflects the current and future technology trends in the e-Learning and Fast Internet ubiquity. The Book discusses the current and most recent advances in research and application of most effective learning methods in conjunction with the future directions in machine learning in support of learning .. ” By: Eduard Babulak, Professor, Computational Sciences, Liberty University, Lynchburg, USA. “Well-known scientist, (e-)learning expert and philosopher Piet Kommers presents us lessons learnt through research and practice, covering philosophies and paradoxes, ranging from learning to learn to machine learning. In 35 chapters he takes us on an exciting, comprehensive journey of just about every conceivable aspect of technology and education .. ” By: Eugenia Smyrnova-Trybulska, Dr. hab., associate professor, University of Silesia in Katowice, Poland. “The book presents a mosaic of assets reflecting the vast international experience in research and realization of learning technologies of the author, honourable professor of the UNESCO Chair in New information technologies in education for all, Piet Kommers. Describing various aspects of learning strategies, approaches, techniques and technologies in a concise way, he engages the readers into the mental construction of a “big picture” and makes them reconsider routine processes of teaching and learning .. ” By: professor Volodymyr Gritsenko, Director of the International Research and Training Centre for Information Technologies and Systems, National Academy of Sciences and Ministry of Education and Science of Ukraine, Head of the UNESCO Chair.
