

**Prof. Dr. Dietrich Albert, Graz University of Technology & University of Graz,
“Digital Learning and Teaching – an European Perspective”**

For more than 30 years the presenter is involved in international and interdisciplinary collaboration of psychology with information-communication-technology (ICT) in education. Meanwhile the keywords changed from E-Learning, Technology Enhanced Learning, Digital Learning to Open Learning. The innovation and scope of this field is located between guidance and freedom, psychological theory and pedagogical practice, basic research and applied research. Furthermore, new developments in learning and teaching are based on and stimulated by new technologies. Also balancing cognition and motivation as well as balancing control by teacher/system and by learner is aimed in digital learning and teaching. Furthermore, another feature of European perspective is the high financial investment of the European Commission into R&D resulting in a gap between research, development and innovation at one hand and pedagogical and technological reality at the other hand. These different aspects are illustrated and spot lighted primarily by contributions of the Cognitive Science Section (CSS at TUGraz & UniGraz) in terms of knowledge space theory (KST) and competence-based knowledge space theory (CbKST), adaptive assessment and personalized learning, macro- vs. microadaptivity, surmise relation between tests and courses (SRbT), selfregulated learning (SRL), game-based learning (GBL), learning analytics, overcoming mental fixations, and cognitive bias in information retrieval. Finally, propositions about current challenges and future developments in digital learning and teaching are presented.