Innovation of Learning and Teaching in the digital era: opportunities and challenges

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Since 1993, the internet revolution made available for universities students and professors an increasing amount of information and data. After 30 years, in many cases, universities still teach in a very traditional way while it would be useful to adapt to the new digital environment making the students to learn the main elements of each subject without asking them to learn by heart details that they will be able to easily find on the internet. As already happens in some universities, in some cases, students could be allowed to use devices connected to the internet during the exams, formulating complex questions which require a very good knowledge of the subject without necessarily knowing all technical details. Indeed, any professional during his or her career will use the internet to search for information to prepare for any activity. Internet allows also to easily "flip the classroom", i.e. to ask the students to prepare at home before coming to the class just to ask questions to the teacher and discuss with the other students about the assignment. The recent strong impact of generative AI (ChatGPT, etc) will also be presented and discussed.