

# From Static to Dynamic: Transforming Learning in Kuwait with Generative AI

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## Abstract:

In an era defined by rapid technological advancement, Generative AI (GAI) offers a transformative opportunity to reimagine education across Kuwait's schools and universities. This keynote explores how GAI can shift traditional, static learning models toward dynamic, personalized, and engaging educational experiences tailored to the unique needs of each learner.

Drawing on global innovations and local educational priorities, the presentation will highlight how GAI can:

- Customize content delivery based on individual learning styles, language preferences, and academic goals.
- Support educators in designing adaptive curricula and assessments that respond to real-time student performance.
- Enhance student engagement through interactive, AI-generated simulations, storytelling, and multilingual resources.

Special attention will be given to the cultural and linguistic context of Kuwait, showcasing how GAI can be localized to reflect national values while preparing students for a globalized, AI-integrated future. The keynote will also address ethical considerations, teacher empowerment, and the infrastructure needed to responsibly integrate GAI into Kuwait's educational ecosystem.



## Biography:

Hossein Saiedian, Ph.D., is a leading figure in computer science as a Professor at the University of Kansas (KU) and a member of the KU Institute for Information Sciences. His significant scholarly output includes over 170 publications in the core areas of computer science, software engineering, and information security. Professor Saiedian's research has attracted support from major organizations, including the NSF. Beyond his recognized excellence in research, evidenced by numerous distinguished awards, his commitment to education is profound: he has mentored and graduated more than 100 master's and doctoral students during his tenure at two institutions.