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Keynote title: Impact of Generative AI On Education and Scientific Research

Bio

Prof. Yousry Elgamal, Professor of Computer Engineering, senior consultant at The Arab Academy for Science and Technology, and Chairman of The Computer Scientific Society (CSS), Alexandria-Egypt. He is the Chairman of the Communication and Information Committee of The National Forum of Education, Culture and Sciences (UNESCO, ALECSO, ISESCO). He served as The Minister of Education of Egypt 2005-2010, Chairman of the Board of Trustees, Egypt Japan University of Science and Technology (E-JUST) 2010-2014, and the senior consultant of the National Telecommunications Institute of Egypt.

Elgamal has also served in a number of capacities at The Arab Academy for Science and Technology and Maritime Transport including Vice-President for Education and Research, Founding Dean of College of Engineering and Technology, Founding Chairman of Electronics and Communication Department, and Assistant to the President for Informatics. He served also as a Lecturer of Nuclear Electronics at The Atomic Energy Agency (IAEA).

He received his B.Sc. in Electrical Engineering from the University of Alexandria 1968, his M.Sc. form Ain-Shams University 1977. Prof. Elgamal holds a D.Sc. in Computer Science from The George Washington University 1985, and a recipient of Richard Merwin Award 1984. He is a board member of the Center of Special studies and Programs (CSSP) and the Center of Science and Planetarium, Bibliotheca Alexandrina. Dr. Elgamal is an active member of the Civil Society of Alexandria as a Chairman of the Society of Friends of Music and Arts, and former president of The Yacht Club of Egypt in Alexandria.

Impact of Generative AI On Education and Scientific Research

Abstract:

Last February witnessed an unprecedented rise in the growth rate of the use of (Chat GPT) reaching 100 million real users in just two months, which is the highest in history, as it allows users to interact with the system using natural language, with the system generating answers in various creative text formats. This caused an unprecedented impact on various fields of human activities, education and scientific research are no exceptions.

Generative AI could be used to enhance education in terms of richer content, smarter tools, and innovative methods of delivery, with an outcome of improved quality of reaching and learning. In scientific research, the potential of analyzing big data, automating repetitive tasks, predictive modelling, forecasting, and facilitating writing and formatting of scientific papers are among the tremendous services it presents to researchers.

However, as this technology continues to develop, we are likely to see more innovative applications of Generative AI in teaching, learning, and scientific research. It is important to use this technology in a responsible and ethical manner and monitor the content that is created.