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Keynote title: Technology Trends Outlook 2024

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. from 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.

Technology Trends Outlook 2024

Abstract:

Generative AI has sparked widespread interest, with individuals and organizations across different regions and industries exploring its potential.

Recent developments in terms of multimodal generative models, open-source models, context window expansion, embedding LLMs into various enterprise tools, and multi-agent Approach. Underlying technologies of Gen.

AI are discussed emphasizing key uncertainties and adoption developments. Real-world examples of different enterprises exploring AI potential are presented.

Regarding latest developments in information technologies, the concepts, operation, and future applications of Reconfigurable Intelligent Surfaces (RIS) are presented, highlighting the development and deployment timeline of this emerging technology.

Augmented Connectivity is introduced emphasizing its role in industrial metaverse.