

## Top Technology Trends



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### **Abstract :**

Artificial Intelligence (AI) is devoted to create intelligent software and hardware

Since the outbreak of COVID-19 pandemic, numerous ICT technologies have been developed to enhance digital transformation and inclusion. The **Internet of Behavior (IoB)** is the art of using data to change behavior of users. Data is gathered, combined, and processed including customer data, social media, facial recognition, and location tracking.

Advances in AI techniques paved the way to the emergence of **Autonomic Systems** which are self-managed systems that learn from their environments and

dynamically modify their own algorithms – in real time – to optimize their behavior in complex ecosystems.

In order to enable scalability, remote operations, and business model description, **Hyper automation** approach is used to rapidly identify and automate as many business and IT processes as possible using technologies of AI, machine learning, event-driven software architecture, and robotic process automation in addition to other tools and platforms.

The next big thing was announced by Mark Zuckerberg on October 28th by changing the well-known Facebook to Meta and the outbreak of **METAVERSE**, a digital reality that combines aspects of social media, online gaming, augmented reality (AR), virtual reality (VR), and crypto currencies to allow users interact virtually. On the other side, Microsoft is entering the race to build a metaverse inside Teams by bringing **MESH**, a collaborative platform for virtual experiences, by combining the company's mixed reality and HoloLens work with meetings and video calls.

#### **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.