

Training and Organizational Development Conference **TOD'25**

The Impact of **Artificial Intelligence** on the Future of the Human Workforce



Prof. Aly Fahmy

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Prof. Aly Fahmy holds a professorship in **Artificial Intelligence** at the Faculty of Computers and Artificial Intelligence, **Cairo University**. His foundational background is primarily in **Artificial Intelligence**, with a special focus on **Mathematical Logic**. His main fields of interest include Data and Text Mining, Machine Learning, Logic Programming and Fuzzy Logic, Computational Linguistics, and exploring the Synergy between Neural Networks and Symbolic Logic. Currently, Dr. Fahmy's pioneering research is centered on **Large Language Models (LLMs)** and their applications for improved education and conversational systems. His ongoing projects involve handling LLM challenges, studying the role of convolutional neural networks in differentiating breast lesions using contrast-enhanced spectral mammography, developing mispronunciation detection techniques, and improving question answering systems with common sense. Throughout his career, Dr. Fahmy has gained significant practical experience by working on large-scale real-time software systems at Litton Data System in Los Angeles, USA, and on expert systems using the Knowledge Engineering Environment System (KEE) at IntelliCorp in Munich, Germany. He has also played a significant role in numerous applied research activities, including serving as the Principal Investigator for the Theses Mining Project at Cairo University, Head of the Administration Council of the Arabic Language Technology Center (ALTEC), and Principal Investigator for both the Egyptian Center of Excellence for Data Mining and Computer Modeling and the "Artificial Tutoring System for Teaching Arabic Handwriting." Dr. Fahmy graduated from the Computer Engineering Department at the Military Technical College (M.T.C), Cairo, Egypt, in 1972. He obtained his MSc in 1976 from the Centre of Research and Studies (C.E.R.T), Toulouse, France, and completed his **PhD in Artificial Intelligence: Control of Automatic Deductions for Logic-Based Systems** from the Computer Department at C.E.R.T in 1979.

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