Keynote Speech I:

Smart University Reference Architecture

By Prof. Dr. Hossam Osman

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Abstract:

The talk addresses the Smart University Reference Architecture (SURA) developed by the Software Engineering Competence Center (SECC) in accordance with the best practices and the experiences of the top worldwide universities and in accordance with the TOGAF global methodology for enhancing the efficiency of technological performance and the COBIT global framework for IT governance and management. SURA is based upon six capabilities: Smart Learning, Smart Assessment, Smart Classroom, Smart Support, Smart Operations, and Smart Campus. These six capabilities are composed of 38 sub- capabilities, each of which can be evaluated across five dimensions: Service, Processes, People, Information Systems, and Technology Infrastructure. The talk covers how to use SURA for assessment, structuring, and road mapping for smart university transformation.

Short Bio:

Dr. Hossam Osman is the ICT Minister Advisor for Technology Innovation, Electronics, and Training and also works as VP of Information Technology Industry Development Agency (ITIDA) mandated by spearheading the development of the ICT industry in Egypt to increase its global competitiveness so as to make it a key contributor to economic growth. Dr. Osman's responsibilities include supervising the Software Engineering Competence Center (SECC), the Technology Innovation and Entrepreneurship Center (TIEC), the IT Academic Collaboration Program (ITAC), and the Electronics Industry Program. Dr. Osman has over 30 years experience as director, consultant, researcher, instructor, and developer in IT and software engineering. His experience is divided between industry and academia, private and governmental organizations, small and national-level projects, and domestic and overseas companies.

Dr. Osman received the B.Sc. and M.Sc. degrees in electrical engineering from Ain Shams University, Egypt in 1985 and 1990, respectively, and the Ph.D. degree in electrical and computer engineering from Queen's University, Canada in 1996. His Ph.D. thesis was awarded the Engineering and Applied Science Outstanding Thesis Award by Queen's University in 1996 and he was selected as Ontario's best post-graduate student in Computing by the Canadian Advanced Technology Association (CATA) in 1996.