

Dr. Hassan GOMAA

Brief Biography

Hassan Gomaa is Full Professor and former Chair of the Department of Computer Science at George Mason University, Fairfax, Virginia. Previously, he was Chair of the Department of Information and Software Engineering. He received a B.Sc.(Eng.) with First Class Honors in Electrical Engineering from University College, London, and the DIC and Ph.D. in Computer Science from Imperial College, London.

He has over 30 years of experience in software engineering, both in industry and academia, and has published over 200 technical papers and five textbooks. His textbook, "Software Design Methods for Concurrent and Real-Time Systems", was published in 1993 by Addison Wesley as part of the SEI Series on Software Engineering and was translated into Chinese in 2003. His second textbook, entitled "Designing Concurrent, Distributed, and Real-Time Applications with UML", was published by Addison Wesley in 2000 and was translated into Chinese in 2004. His third textbook entitled "Designing Software Product Lines with UML" was published by Addison Wesley in 2004. His fourth textbook, "Software Modeling and Design", was published by Cambridge University Press in 2011. His latest textbook, "Real-Time Software Design for Embedded Systems", was published by Cambridge University Press in May 2016. He is a member of the editorial board of the Journal on Software and Systems Modeling.

His current research interests include object-oriented analysis and design for concurrent, real-time, and distributed systems, software architecture, software product line engineering, software architectures and patterns, service-oriented architectures, dynamic software adaptation, software performance engineering, intelligent software agents, software engineering environments, and software process models. His research has been funded by several organizations including the National Science Foundation, NASA and DARPA. He has been a keynote speaker at the Asia-Pacific Software Engineering Conference (APSEC), at the International Conference on Model-Driven Engineering, Languages (MODELS), and Systems, at the International Conference on Software Engineering Advances, and at the IEEE Computer Software and Applications Conference (COMPSAC). He has taught several in-depth industrial courses on software design in North America, Europe, Japan, and Korea. He also consults in both the technical and management aspects of software engineering.

Previously, he held faculty positions at the Wang Institute of Graduate Studies, where he was Professor of Information Technology, and at Imperial College, London, where he was a lecturer (equivalent to Assistant Professor in North America) in the Department of Computing. He also worked in industry for over ten years as a software engineer, software architect, and project manager at General Electric, Bell Northern Research, and CERN.