

**Dr. Hassan Gomaa**  
**Professor**  
**Department of Computer Science**  
**George Mason University**

**Keynote and Invited Presentations, Professional Development Courses**  
**(Since 2000)**

**Keynote Presentations**

1. Keynote speaker at 11<sup>th</sup> Asia Pacific Software Engineering Conference (APSEC), “Real-Time Software Design for Embedded Systems: From Centralized Control to Distributed Component-Based Product Lines”, Busan, South Korea, November 2004.
2. Keynote speaker at 9th ACM/IEEE International Conference on Model-Driven Engineering, Languages, and Systems, “A Software Modeling Odyssey: Designing Evolutionary Architecture-centric Real-Time Systems and Product Lines”, Genova, Italy, October 2006.
3. Keynote speaker at Third International Conference on Software Engineering Advances, “Designing Evolutionary Architecture-centric Component-based Software Product Lines”, Sliema, Malta, October 2008.
4. Keynote speaker at 34<sup>th</sup> Annual IEEE Computer Software and Applications Conference (COMPSAC), “Software Variability, Evolution, and Adaptation”, Seoul, South Korea, July 2010.

**Invited Presentations**

- 1 Invited speaker at Aerospace Corporation, “Modeling Software Product Lines with UML”, May 2002.
- 2 Invited speaker at National University of Singapore, "Research into Software Product Lines", June 2002 and June 2004.
- 3 Organizer and speaker at GMU Symposium on Information Technology for Homeland Security on “Dynamic Software Reconfiguration for Critical Infrastructure Protection”, May 2004.
- 4 “Designing Software Product Lines with UML”, Seminar presented at Software Engineering Center, Tokyo, June, 2005.
- 5 “Designing Software Product Lines with UML”, Seminar presented at British Computer Society, London, July 2005.
- 6 Organizer and speaker at GMU Symposium on Information Technology for Emergency Preparedness and Response on “Software Design Patterns for Emergency Preparedness and Response”, December 2005.

- 7 “QoS Brokering in Service Oriented Architectures” (with D. Menasce and H. Ruan), Invited speaker at Commercialization Venture Breakfast, MITRE, Tyson’s Corner, VA, June 2006.
- 8 “Applying the PLUS Method to Industrial Product Line Problems”, Second International Workshop on Product Line Approaches in Software Engineering (PLEASE 2011), Honolulu, Hawaii, May 2011.

### **Professional Education Courses for Industry**

1. “Object-Oriented Analysis and Design with UML”, Five day professional education course presented at Hitachi Institute of Technology, Tokyo, Japan, July 2000, June 2001, June 2002, June 2003, June 2004, June 2005, July 2006.
2. “Designing Concurrent, Distributed, and Real-Time Applications with UML”, Two day professional education course presented at NASA Goddard Space Flight Center, Greenbelt, MD, March 2001.
3. “Designing Concurrent, Distributed, and Real-Time Applications with UML”, Four day professional education course presented at George Mason University, Herndon, VA, May 2001.
4. “Concurrent Object Modeling Architectural Design Method”, Two day professional education course presented at BAE Systems, San Diego, July 2001.
5. “Object-Oriented Analysis and Design with UML”, Four day professional education course presented at Raytheon, August 2004.
6. “Designing Real-Time Embedded Systems Designing Real-Time Embedded Systems with UML”, Four day Intensive Software Design Workshop, KAIST, Seoul, South Korea, November 2004.
7. “Object-Oriented Real-Time Design with UML”, Two 2-day professional education courses at Boeing Satellite Systems, Los Angeles, January 2005.
8. “Designing Software Product Lines with UML”, One day professional education course at Omron Corp, Kyoto, Japan, June 2005.
9. "Designing Real-Time Embedded Systems with UML", 2-day professional education courses at Samsung Electronics, Suwon, South Korea, May 2006, May 2007, May 2008, June 2009, July 2010.
10. "Designing Real-Time and Distributed Applications with UML", 4-day professional education course at Mitre Corp, Fairfax, VA, July/August, 2006.
11. “Designing Software Product Lines with UML”, 2-day professional education courses at Samsung Electronics, Suwon, South Korea, May 2008, June 2009, July 2010, March 2011.
12. “Software Modeling and Design”, 2-day professional education courses at Samsung Electronics, Suwon, South Korea, March 2011.

### **Professional Development Seminars and Tutorials**

1. “Designing Real-Time and Distributed Applications with UML”, Tutorial presented at International Conference on Software Engineering, Limerick, Ireland, June 2000.
2. “Designing Concurrent, Distributed, and Real-Time Applications with UML”, Tutorial presented at UML 2000 Conference, York, England, October 2000.
3. “Designing Client/Server and Distributed Applications with UML”, ACM Professional Development Seminar, Herndon, VA, December 2000.
4. “Real-Time Software Design with UML”, ACM Professional Development Seminar, Herndon, VA, May 2001.
5. “Designing Concurrent, Distributed, and Real-Time Applications with UML”, Tutorial presented at International Conference on Software Engineering, Toronto, Canada, May 2001.
6. “Object-Oriented Analysis and Design with UML”, One day professional education course presented at George Mason University, Arlington, VA, November 2001.
7. “Designing Software Product Lines with UML”, Tutorial presented at Software Product Line Conference, Boston, MA, August 2004.
8. “Designing Software Product Lines with UML”, Tutorial presented at Symposium on Applied Computing, Santa Fe, NM, March, 2005.
9. “Designing Software Product Lines with UML”, Tutorial presented at International Conference on Model-Driven Engineering, Languages, and Systems, Genova, Italy, October 2006.
10. “Designing Software Product Lines with UML”, Tutorial presented at International Conference on Software Reuse, Beijing, China, May 2008.
11. “Designing Software Product Lines with UML”, Tutorial presented at International Conference on Software Reuse, Fall Church, VA, September 2009.