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Publications

Ph.D. Thesis

H. Gomaa, “A Modeling Approach to the Evaluation of Computer System Performance”, Imperial College of Science and Technology, London University, March 1976.

Diploma of Imperial College Dissertation (equivalent to Master’s Thesis)

H. Gomaa, “Implementation of Data Structures”, Imperial College of Science and Technology, London University, October 1968.

Published Textbooks

1. H. Gomaa, “Software Design Methods for Concurrent and Real-Time Systems”, Addison-Wesley SEI Series in Software Engineering, ISBN 0-201-52577-1, 1993. (Also translated into Chinese by Pearson Education Asia Ltd. and Tsinghua Press, 2003).
2. H. Gomaa, “Designing Concurrent, Distributed, and Real-Time Applications with UML”, Addison-Wesley Object Technology Series, ISBN: 0-201-65793-7, 2000. (Also translated into Chinese by Beijing University of Aeronautics and Astronautics Press, 2004).
3. H. Gomaa, “Designing Software Product Lines with UML: From Use Cases to Pattern-based Software Architectures”, Addison-Wesley Object Technology Series, ISBN: 0-201-77595-6, 2005.
4. H. Gomaa, “Software Modeling and Design: UML, Use Cases, Patterns, and Software Architectures”, Cambridge University Press, ISBN: 9780521764148, 2011. (Also translated into Chinese by China Machine Press, 2014).
5. H. Gomaa, “Real-Time Software Design for Embedded Systems”, Cambridge University Press, ISBN: 9781107041097, 2016.

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1. H. Gomaa, “An Exercise in Resource Allocation”, Software - Practice and Experience, Vol. No. 3, 1974.
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11. H. Gomaa, "A Behavioral Analysis Method for Real-Time Control Systems", Control Engineering Practice, Vol. 1, No. 1, pp 115-120, 1993.
12. H. Gomaa, "A Reuse-Oriented Approach to Structuring and Configuring Distributed Applications", The Software Engineering Journal, March 1993.
13. H. Gomaa, "Software Design Methods for Large Scale Real-Time Systems", Journal of Systems and Software, Vol. 25, No. 2, May 1994.
14. H. Gomaa, "Reusable Software Requirements and Architectures for Families of Systems", Journal of Systems and Software, April 1995.
15. H. Gomaa, L. Kerschberg, V. Sugumaran, C. Bosch, I Tavakoli, "A Knowledge-Based Software Engineering Environment for Reusable Software Requirements and Architectures", Journal of Automated Software Engineering, Vol. 3, 285-307, 1996.
16. H. Gomaa, D. Menasce, L. Kerschberg, "A Software Architectural Design Method for Large-Scale Distributed Information Systems", Journal of Distributed Systems Engineering, September 1996.

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