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# **Publications**

### **Book Chapters**

- **B1. H. D. Karatza**, "Simulation of Parallel and Distributed Systems Scheduling, Concepts, Issues and Approaches", Chapter 4 in <u>APPLIED SYSTEM SIMULATION: Methodologies and Applications</u>, G. Papadimitriou and M. Obaidat Editors, Kluwer Academic Publisher, 2003, pp.61-80.
- **B2. H.D. Karatza**. "Scheduling in Distributed Systems", in <u>Performance Tools and Applications to Networked Systems</u>, Editors: Maria Carla Calzarossa and Erol Gelenbe (eds.), LNCS Vol. 2965/2004, Springer-Verlag Heidelberg, 2004, pp.336-356.
- **B3. H. D. Karatza**, "Performance of Scheduling Strategies in Distributed Systems", In <u>Performance Evaluation of Parallel, Distributed and Emergent Systems</u>, G. Min and M. Ould-Khaoua, Editors, Nova Science Publishers, in Volume 1 in Distributed, Cluster and Grid Computing Series, 2006, pp. 183-205.
- **B4. H. D. Karatza**, "A simulation-based Performance Analysis of Epoch Task Scheduling in Distributed Processors", in <u>Communication Networks and Computer Systems</u>, J. Barria Editor, World Scientific, Imperial College Press, 2006, pp. 69-86.
- **B5. H. D. Karatza**, "Periodic Task Cluster Scheduling in Distributed Systems", in <u>Computer System Performance Modeling in Perspective</u>, E. Gelenbe Editor, World Scientific, Imperial College Press, 2006, pp. 257-276.
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- **B7. K. Karaoglanoglou and H. Karatza,** "Trust Calculation & Management in P2P and Grid Systems", in the <u>Handbook of Research on P2P and Grid Systems for Service-Oriented Computing: Models, Methodologies and Applications, Edited by Nick Antonopoulos, Georgios Exarchakos, Maozhen Li and Antonio Liotta, IGI Global, 2010, pp. 774-795.</u>
- **B8. I. Moschakis and H. Karatza,** "Enterprise HPC on the Clouds", in the <u>Cloud Computing for Enterprise Architectures</u>, Edited by Z. Mahmood and R. Hill, Springer, Part 3, pp. 227-246, 2011.
- **B9. K. Karaoglanoglou and H. Karatza**, "Resource Discovery in Large Scale Grid Systems", ComplexHPC book, John Wiley & Sons, 2013.
- **B10. G. L. Stavrinides and H. D. Karatza**, "Scheduling Data-Intensive Workloads in Large-Scale Distributed Systems: Trends and Challenges", in <u>Modeling and Simulation in HPC and Cloud Systems</u>, Edited by Kołodziej, Joanna, Pop, Florin, Dobre, Ciprian Dobre, ser. Studies in Big Data, Springer, Vol. 36, Ch. 2, pp. 19-43, Febr. 2018.
- **B11. G. L. Stavrinides and H. D. Karatza**, "Workload scheduling in fog and cloud environments: emerging concepts and research directions", in <u>Advances in Computing, Informatics, Networking and Cybersecurity</u>, Edited by P. Nicopolitidis, S. Misra, and L.T. Yang, 1st ed., ser. Lecture Notes in Networks and Systems, Springer, Jan. 2022, vol. 289, ch. 1, pp. 3-32.

# **Journal Publications**

- **J1. H.D. Karatza**. "Simulation study of multitasking of open computer networks", <u>Computer Systems Science and Engineering Journal</u>, CRL Publishing Ltd, Vol.1, No 4, Oct.1986, pp.193-204.
- **J2. H.D.Karatza**. "Simulation study of multitasking of closed computer system networks", <u>Computer</u> Systems Science and Engineering Journal, CRL Publishing Ltd, Vol.2, No 1, Jan.1987, pp.42-51.
- **J3. H.D.Karatza**. "A Simulation model of multitasking in Parallel processing", <u>International Journal of Modelling and Simulation</u>, ACTA Press, Vol.7, No 1, 1987, pp.37-42.
- **J4. H.D.Karatza**. "Simulation models for parallel processing within Programs", <u>International Journal of Modelling and Simulation</u>, ACTA Press, Vol.8, No 3, 1988, pp.78-82.
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