

# CURRICULUM VITAE

## **PERSONAL DETAIL**

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**Name:** Dr. Mohammad Hani Almomani  
**Designation:** Assistant Professor  
**Department:** Department of Mathematics  
**Faculty:** Faculty of Science, The Hashemite University  
**Date of Birth:** Aug. 16, 1979  
**Nationality:** Jordanian  
**Marital Status:** Married  
**Religion:** Muslim  
**E-mail:** [mh\\_momani@hu.edu.jo](mailto:mh_momani@hu.edu.jo)  
**Address:** Department of Mathematics, Faculty of Science,  
The Hashemite University, Zarqa, Jordan



## **ACADEMIC QUALIFICATION**

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### **1) Ph.D.:-**

**Degree:** Doctor of Philosophy  
**Major Specialization:** Mathematics and Statistics  
**Institute Issuing Degree:** Universiti Sains Malaysia  
**Field of narrow Specialization:** Applied Statistics (Operations Research)  
**Date of Graduation:** 2012  
**Country of Institute:** Malaysia  
**Language of Study:** English

### **2) M.Sc.:-**

**Degree:** Master  
**Major Specialization:** Mathematics and Statistics  
**Institute Issuing Degree:** Jordan University of Science and Technology  
**Field of narrow Specialization:** Operation Research  
**Date of Graduation:** 2004  
**Country of Institute:** Jordan  
**Language of Study:** English

### **3) B.Sc.:-**

**Degree:** Bachelor  
**Major Specialization:** Mathematics and Statistics  
**Institute Issuing Degree:** Jordan University of Science and Technology  
**Date of Graduation:** 2001  
**Country of Institute:** Jordan  
**Language of Study:** English

## **WORKING EXPERIENCE**

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- Assistant Professor at the Department of Mathematics, The Hashemite University, Zarqa, Jordan, 2016 to present.
- Assistant Professor at the Mathematics Department, Faculty of Science, Jerash University, Jordan, 2012-2016.
- Part time Lecturer at the Department of Mathematics and Statistics, Jordan University of Science and Technology, Irbid, Jordan, 2012-2016.
- Teaching and Research Assistant at the School of Mathematical Sciences, Universiti Sains Malaysia, Penang, Malaysia, 2010-2011.
- A lecturer at the Department of Mathematics, King Saud University, Al-Kharj, Saudi Arabia, 2006-2009.
- Part time Lecturer at the Department of Mathematics and Statistics, Jordan University of Science and Technology, Irbid, Jordan, 2004-2006.
- Teaching Assistant at the Department of Mathematics and Statistics, Jordan University of Science and Technology, Irbid, Jordan, 2001-2002.

## **RESEARCH INTERESTS**

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- Stochastic processes
- Ranking and selection procedures for stochastic simulation
- Ordinal optimization and optimal computing budget allocation procedures
- Computer simulation of stochastic systems

## **PROJECTS AND FUNDING**

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- Selecting the Best Stochastic System for Large Scale Problems, Postgraduate Research Grant Scheme (PRGS). From April 2011 to April 2013.
- USM Fellowship Scheme (FS). From January 2011 to December 2011.
- USM Graduate Assistant (GA). From July 2010 to November 2010.

## **CLASSES TAUGHT**

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- Calculus 1
- Calculus 2
- Calculus 3
- Introduction to Probability and Statistics
- Introduction to Distribution Theory
- Operations Research
- Introduction to Statistical Inference
- General Mathematics for Students of Business Administration
- Biostatistics
- General Mathematics for Students of Agriculture

- Basic Concepts of Statistics
- Linear Programming and Game Theory
- Statistical Methods (1)
- Probability Theory
- Design of Experiments
- Mathematical Statistics
- Applied Probabilities

## PUBLICATIONS

### Academic Journals:-

1. **Almomani, M. H., Alrefaei, M. H. and Al Mansour S.(2017).**A combined statistical selection procedure measured by expected opportunity cost. *Arabian Journal for Science and Engineering*, DOI 10.1007/s13369-017-2865-8, 1-9. (ISI-Cited Publication)
2. **Almomani, M. H., Alrefaei, M. H. and Al Mansour S.(2017).** A method for selecting the bestperformance systems. *International Journal of Pure and Applied Mathematics*, forthcoming. (SCOPUS-Cited Publication)
3. **Alsalem M.,Almomani, M. H., Alrefaei, M. H. and Diabat A. (2017).** On the optimal computing budget allocation problem for large scale simulation optimization. *Simulation Modelling Practice and Theory*,71:149-159. (ISI-Cited Publication)
4. **Almomani, M. H.and Alrefaei, M. H. (2016).** Ordinal optimization with optimal computing budget for selecting an optimal subset.*Asia-Pacific Journal of Operational Research*33(2): 1-17. (ISI-Cited Publication)
5. **Almomani, M. H.and Ababneh F. (2015).**The expected opportunity cost and selecting the optimal subset,*Applied Mathematical Sciences*9(131): 6507 - 6519.(SCOPUS-Cited Publication)
6. **Almomani, M. H. (2014).** Efficient approach for selecting the best subset of buffer profile, *International Journal of Open Problems in Computer Sciences and Mathematics*7(4):1-13.
7. **Almomani, M. H., Abdul Rahman, R. and Baharum A., Alwadi S., Ababneh F. (2014).** The effect of simulation parameters on the selection approach,*International Journal of Open Problems in Computer Sciences and Mathematics* 7(2):19-48.
8. **Almomani, M. H. and Abdul Rahman, R. (2012).** Selecting a good stochastic system for thelarge number of alternatives, *Communications in Statistics–Simulation and Computation*41(2): 222–237.(ISI-Cited Publication)

9. **Almomani, M. H. and Alrefaei, M. H. (2012).** A three-stage procedure for selecting a good enough simulated system, *Journal of Applied Probability and Statistics* 6(1&2): 13-27.(SCOPUS-Cited Publication)
10. **Almomani, M. H., Abdul Rahman, R., Baharum, A. and Alrefaei, M. H. (2012).** A selection approach for solving the buffer allocation problem, *International Journal of the Physical Sciences* 7(3): 413–422.
11. **Almomani, M. H. and Abdul Rahman, R. (2012).** Selecting the best system using the three–stage and the four–stage selection approaches, *Applied Mathematical Sciences* 6(40): 1955–1972.(SCOPUS-Cited Publication)
12. **Almomani, M. H., Baharum, A. and Abdul Rahman, R. (2011).** Three–stage selection approach with the initial simulation sample size, *International Journal of Pure and Applied Mathematics* 72(2): 159–172.(SCOPUS-Cited Publication)
13. **Almomani, M. H., Abdul Rahman, R. and Baharum, A. (2011).** Selecting a good enough stochastic design, *Far East Journal of Applied Mathematics* 53(2): 123–131.
14. **Almomani, M. H. and Abdul Rahman, R. (2011).** Efficiency of different stopping rules for selecting a good system, *World Applied Science Journal* 12(8): 1327–1336.(SCOPUS-Cited Publication)
15. **Almomani, M. H., Baharum, A. and Abdul Rahman, R. (2010).** Three–stage procedure and expected opportunity cost for selecting a good simulated design, *Research Journal of Applied Sciences* 5(6): 417–423.(SCOPUS-Cited Publication)
16. **Almomani, M. H. and Abdul Rahman, R. (2010).** Selecting a good enough simulated design with opportunity cost, *International Journal of Mathematics and Computation* 7(J10): 114–124.
17. **Alrefaei, M. H. and Almomani, M. H. (2007).** Subset selection of best simulated systems, *Journal of the Franklin Institute* 344: 495–506.(ISI-Cited Publication)

#### **Proceeding:-**

18. **Almomani, M. H. and Abdul Rahman, R. (2011).** An adequate choice of initial sample size for selection approach, *International Conference on Operations Research (ICOR2011)*, Vol. 60, pp. 799–803.
19. **Almomani, M. H. and Abdul Rahman, R. (2011).** Sequential selection approach for selecting the best system, *International Conference on Modeling, Simulation and Applied Optimization (ICMSAO2011)*, pp. 1056–1060.
20. **Almomani, M. H. and Abdul Rahman, R. (2011).** The effect of increment in simulation samples on a combined selection procedure, *International Conference on Computer Mathematics and Natural Computing (ICCMNC 2011)*, Vol. 74, pp. 463–467.

21. **Almomani, M. H., Abdul Rahman, R. and Baharum, A. (2011).** Four–stage selection approach with the initial sample size, *The 2nd symposium of the USM fellowship holders 2011*.
22. **Almomani, M. H., Abdul Rahman, R. and Baharum, A. (2010).** Selecting a good enough stochastic design, *International Conference on Fundamental & Applied Sciences (ICFAS2010)*.
23. **Almomani, M. H., Baharum, A. and Abdul Rahman, R. (2010).** The opportunity cost and three–stage approach, *International Conference on Mathematical Applications in Engineering (ICMAE2010)*.
24. **Almomani, M. H., Baharum, A. and Abdul Rahman, R. (2010).** Three–stage approach and the initial sample size, *Association of Asian Pacific Operational Research Societies Conference (APORS2010)*.
25. **Alrefaei, M. H. and Almomani, M. H. (2004).** A three stage method for selecting a good simulated system, *MESM'2004 Middle East Multi-conference on Simulation and Modeling*.

#### **Working Papers:-**

26. **Alrefaei, M. H., Almomani, M. H. (2017).** Asymptotic approximation of the probability of correctly selecting the best top systems. Submitted to *The Winter Simulation Conference (WSC2017)*.
27. **Alrefaei, M. H., Almomani, M. H. (2017).** Approximate asymptotically of the probability of correctly selecting the top m system.
28. **Almomani, M. H. (2017).** Statistical selection of optimal subset: a study of stopping rules.

## **CONFERENCES**

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1. **An adequate choice of initial sample size for selection approach, International Conference on Operations Research (ICOR2011), Phuket, Thailand, (2011).**
2. **Sequential selection approach for selecting the best system, International Conference on Modeling, Simulation and Applied Optimization (ICMSAO2011), Kuala Lumpur, Malaysia, (2011).**
3. **The effect of increment in simulation samples on a combined selection procedure, International Conference on Computer Mathematics and Natural Computing (ICCMNC 2011), Penang, Malaysia, (2011).**
4. **Four–stage selection approach with the initial sample size, The 2nd symposium of the USM fellowship holders 2011, Penang, Malaysia, (2011).**

5. **Selecting a good enough stochastic design, International Conference on Fundamental & Applied Sciences (ICFAS2010), Kuala Lumpur, Malaysia, (2010).**
6. **The opportunity cost and three-stage approach, International Conference on Mathematical Applications in Engineering (ICMAE2010), Kuala Lumpur, Malaysia, (2010).**
7. **Three-stage approach and the initial sample size, Association of Asian Pacific Operational Research Societies Conference (APORS2010), Penang, Malaysia, (2010).**
8. **A three stage method for selecting a good simulated system, MESM'2004 Middle East Multi-conference on Simulation and Modeling, Amman, Jordan, (2004).**

## **SUPERVISION**

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- **Co-Advisor for Sarah Al-Abdulahadi, Master Degree. Title of Thesis: Solving Inventory System Problems using Selection Procedures, Jordan University of Science and Technology, 2015-2017.**
- **Co-Advisor for Shahd Qassim Al Mansour, Master Degree. Title of Thesis: Selecting a Good Enough Stochastic System via Statistical Selection Procedures, Jordan University of Science and Technology, 2013-2015.**

## **INVOLVEMENT IN MASTER THESIS COMMITTEE**

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- **Member of the M.Sc. thesis committee of Mohammad Al-Rajoodi, Title of Thesis: Multi-Objective Optimal Computing Budget Allocation, Jordan University of Science and Technology, 2017.**

## **WORKSHOPS**

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- **Effective Strategies Academic Calendar. Jerash University, Jordan, (2012).**
- **Approaches and Research Issues in Publications. School of Mathematical Sciences, Universiti Sains Malaysia, Penang, Malaysia, (2011).**
- **LaTeX2011. Laboratory 5, School of Mathematical Sciences, Universiti Sains Malaysia, Penang, Malaysia, (2011).**
- **Research Methodology and Scientific Writing for Mathematical Sciences. School of Mathematical Sciences, Universiti Sains Malaysia, Penang, Malaysia, (2010).**

## **ACADEMIC REFERENCES**

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**Dr. Mahmoud Alrefaei, Professor**  
**Vice Dean of Graduate Studies,**  
**Jordan University of Science and Technology**  
**Department of Mathematics and Statistics**  
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