

JAMAL I. DAOUD



- KULLIYAH OF ENGINEERING
- IIUM Gombak Campus
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ACADEMIC QUALIFICATION

- Ph.D in Statistics
- Master in Statistics
- Bachelor in Statistics

TEACHING RESPONSIBILITIES

DIFFERENTIAL EQUATIONS & STATISTICS	2017/2018
DISCRETE MATHEMATICS	2008/2009
ELEMENTARY STATISTICS	2009/2010 2010/2011
ENGINEERING CALCULUS II	2006/2007 2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016
ENGINEERING MATHEMATICS II	2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
FINAL YEAR PROJECT	2005/2006 2006/2007
MATHEMATICS	2008/2009 2009/2010 2010/2011
OPERATIONAL RESEARCH	2005/2006 2006/2007
PROBABILITY & STATISTICS	2006/2007 2007/2008 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018
PROBABILITY AND STATISTICAL INFERENCE I	2005/2006 2006/2007
PROBABILITY AND STATISTICAL INFERENCE II	2005/2006

RESEARCH PROJECTS

Completed

- 2011 - 2015** Nonparametric Test for Partly Interval-Censored Failure Time Data Via Multiple Imputation
- 2011 - 2015** RU 2011: Analysis of Regression with Heterogeneous Variances
- 2010 - 2013** Survival analysis issues with interval-censored data

- 2009 - -1** Influence of Knowledge of Immunology on Dependency on Health Care Facilities and Healthy Living
- 2009 - 2011** Arithmetic Version of Boolean Algebra
- 2008 - 2008** The modeling : Linear and Nonlinear stability Analysis of the Nth-next-neighbor-interaction
- 2008 - 2011** Irregular Total Labeling on Complete Bipartite Graph, and Union of Complete Bipartite Graphs
- 2008 - 2010** On Some Application Theory of Quadratic Stochastic Operators in Medicine
- In Progress**
- 2004 - Present** Bio-Environmental Engineering Research Centre (BERC)

PUBLICATIONS

Article

- 2019** [Optimization of incremental sheet metal forming process using grey relational analysis.](#) International Journal of Recent Technology and Engineering (IJRTE) , 7 (6S) pp.246-252
- 2019** [Gateway sink placement for sensor node grid distribution in LoRa smart city networks.](#) Indonesian Journal of Electrical Engineering and Computer Science , 14 (2) pp.834-842
- 2018** [Gateway sink placement for sensor node grid distribution in LoRa smart city networks.](#) Journal of Telecommunication, Electronic and Computer Engineering pp.1-7
- 2017** [Nutrients depictions of Barhi date palm \(Phoenix dactylifera L.\) kernels 1.](#) International Food Research Journal , 24 (Suppl.) pp.S325-S334
- 2017** [Nutrients depictions of Barhi date palm \(Phoenix dactylifera L.\) kernels.](#) International Food Research Journal (IFRJ) , 24 (Suppl.) pp.S325-S334
- 2016** [Influence of immunology knowledge on healthcare and healthy lifestyle.](#) PLOS One , 11 (7) pp.1-13
- 2015** [Mathematics in theosophical perspective .](#) Science International Lahore , 27 (1) pp.587-590
- 2015** [Statistical model and prediction of pineapple plant weight.](#) Science International Lahore , 27 (2) pp.943-949
- 2015** [A modified effective path length for predicting rain attenuation based on measurements in Penang-Malaysia.](#) ARPJ Journal of Engineering and Applied Sciences , 10 (21) pp.10096-10100
- 2015** [A modified effective path length for predicting rain attenuation based on measurements in Penang-Malaysia.](#) ARPJ Journal of Engineering and Applied Sciences , 10 (21) pp.10096-10100

- 2015** [Higher dimensional log-linear model and its application.](#) Science International Lahore , 27 (5) pp.3989-3993
- 2014** [Performance analysis of HRO-B+ scheme for the nested mobile networks using OPNet.](#) Journal of Technology , 4 pp.174-191
- 2014** [Ethical issues when using statistical analysis in research .](#) Science International Lahore , 26 (4) pp.1841-1846
- 2014** [Variance homogeneity, the most influential assumption in regression analysis.](#) SYLWAN , 158 (5) pp.42-52
- 2013** [Unavoidable conceptual assumptions for regression analysis.](#) Middle East Journal of Scientific Research (MEJSR) , 13 pp.97-102
- 2013** [Ratio of linear function of parameters and testing hypothesis of the combination two split plot designs .](#) Middle-East Journal of Scientific Research , 13 pp.109-115
- 2013** [Profile analysis of population based on age-group in Sumatra.](#) Middle East Journal of Scientific Research (MEJSR) , 13 pp.116-123
- 2013** [Muhammad Abduh's influence in Southeast Asia.](#) Middle East Journal of Scientific Research (MEJSR) , 13 pp.124-138
- 2013** [Analytical evaluation of a new route optimization scheme for nested mobile network.](#) World Applied Sciences Journal (21) pp.16-20
- 2013** [An enhanced macro mobility management scheme in NEMO environment to achieve seamless handoff.](#) World Applied Sciences Journal (21) pp.35-39
- 2013** [Qualitative to quantitative study for solid waste management.](#) World Applied Sciences Journal (21) pp.40-43
- 2013** [Ethical based mathematical model to evaluate software engineering.](#) World Applied Sciences Journal (21) pp.44-49
- 2013** [Statistical techniques to serve quality of software.](#) World Applied Sciences Journal (21) pp.50-55
- 2013** [Statistical modeling for speech recognition.](#) World Applied Sciences Journal (21) pp.115-122
- 2013** [Analysis of time series by re-sampling.](#) World Applied Sciences Journal (21) pp.159-165
- 2012** [Processing of date palm kernel \(DPK\) for production of edible jam.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.22-29
- 2012** [Effective car monitoring and tracking model.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.1-8
- 2012** [Analytical evaluation of a new route optimization scheme for nested mobile network.](#) World Applied Sciences Journal pp.16-20
- 2012** [An enhanced macro mobility management scheme in NEMO environment to achieve seamless handoff.](#) World Applied Sciences Journal , 20 pp.35-39

- 2012** [Ethical based mathematical model to evaluate software engineering.](#) World Applied Sciences Journal pp.44-49
- 2012** [Analysis and modeling of education participation index \(epi\) in Indonesia from 2003-2008.](#) Journal of Technical Education and Training , 4 (2) pp.52-62
- 2012** [Anti-bacterial and cytotoxicity properties of the leaves extract of nahar \(Mesua Ferrea\) plant.](#) Advances in Natural and Applied Sciences , 6 (5) pp.583-587
- 2012** [Framework for enhancement of image guided surgery: finding area of tumor volume .](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.9-16
- 2012** [Performance evaluation in MANETs environment.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.143-148
- 2011** [A rule-based Arabic text-to-speech system based on hybrid synthesis technique.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.342-354
- 2011** [Review on solution methods for random vibration problems.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.355-359
- 2011** [Mobility management schemes in NEMO to achieve seamless handoff: a qualitative and quantitative analysis .](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.390-402
- 2011** [An enhanced scheme to support QoS in MIPv6 based networks using DiffServ.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.447-455
- 2011** [On opial type inequalities with nonlocal conditions and applications.](#) Kyungpook Mathematical Journal , 51 (2) pp.165-175
- 2011** [Thinking skills course and student's academic self-efficacy.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.403-415
- 2011** [Statistical optimization of for chromium \(IV\) removal on aqueous solution using chitosan.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.423-429
- 2011** [Estimating the survival times of HIV patients using a markov chain.](#) Australian Journal of Basic and Applied Sciences , 5 (5) pp.41-48
- 2011** [Islamic mathematical sciences.](#) Australian Journal of Basic and Applied Sciences , 5 (3) pp.51-59
- 2011** [Statistical analysis for removal of cadmium from aqueous solution at high pH.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.440-446
- 2011** [Statistical process control for failure crushing time data using competing risks model.](#) Australian Journal of Basic and Applied Sciences , 5 (3) pp.28-37
- 2011** [Statistical analysis for malachite green removal using palm-kernel-shell-activated carbon.](#) Australian Journal of Basic and Applied Sciences , 5 (1) pp.87-91
- 2011** [Statistical analaysis for removal of Cadmium from aqueous solution at High pH.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.440-446
- 2011** [Classification of atoms.](#) Australian Journal of Basic and Applied Sciences , 5 (5) pp.5-8

- 2011** [Disinfection studies of Nahar \(Mesua ferrea\) seed kernel oil using pour plate method.](#) African Journal of Biotechnology , 10 (81) pp.18749-18754
- 2011** [Evaluation of nested network mobility approaches .](#) Journal of Applied Sciences , 11 (12) pp.2244-2249
- 2011** [The combination of several RCBDs.](#) Australian Journal of Basic and Applied Sciences , 5 (4) pp.67-75
- 2011** [Random vibrations of a beam on elastic foundation.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.456-460
- 2011** [Mathematical evaluation of a context transfer-based approach to improve handover in mobile multicast environment.](#) Australian Journal of Basic and Applied Sciences , 5 (2) pp.165-172
- 2010** [Islamic perspective of quality administration.](#) Australian Journal of Islamic Studies , 02 (01) pp.49-57
- 2010** [On the Cauchy-Goursat theorem.](#) Journal of Applied Sciences , 10 (13) pp.1349-1351
- 2010** [Stochastic models of heredity rhesus factor.](#) Australian Journal of Basic and Applied Sciences , 4 (8) pp.3306-3310
- 2010** [Step-stress model using logistic regression model and its application in medicine.](#) Far East Journal of Mathematical Sciences (FJMS) , 38 (1) pp.105-111
- 2010** [Irregular total labeling on complete bipartite graph and union complete bipartite graphs.](#) Far East Journal of Mathematical Sciences (FJMS) , 39 (1) pp.129-135
- 2010** [Statistical optimization of fermentation conditions for cellulase production from palm oil mill effluent.](#) American Journal of Environmental Sciences , 6 (1) pp.66-70
- 2010** [Linear and nonlinear models of heredity for blood groups and rhesus factor.](#) Journal of Applied Sciences , 10 (16) pp.1748-1754
- 2010** [Regionalisation of low flow frequency curves for the Peninsular Malaysia.](#) Journal of Hydrology , 381 (1-2) pp.174-180
- 2009** [K-sample tests based on survival analysis with interval-censored data.](#) International Journal of Science Engineering and Technology , 2 (1) pp.19-25
- 2009** [Arithmetic version of boolean algebra.](#) Advances and Applications in Discrete Mathematics , 4 (2) pp.147-150
- 2008** [Vector regression estimation and linear transformation.](#) International Journal of Statistics and Systems , 3 (1) pp.99-106
- 2006** [Comparison of some methods of testing hypothesis in unbalanced split plot design.](#) Journal of Quantitative Methods , 2 (1) pp.50-61
- 2006** [Confidence interval of ratio of parameters in unbalanced split plot design under Fixed effect model.](#) Journal of Quantitative Methods , 2 (1) pp.64-76

- 2006 [Transformation of constrained model into unconstrained model in two way treatment structure with interaction.](#) Journal of Quantitative Methods , 2 (2) pp.29-36
- 2006 [Analysis of missing data on estimable parameter function.](#) Journal of Quantitative Methods , 2 (1) pp.62-74
- 2003 [Regression analysis with dummy variables \(in arabic\).](#) 7th of April University Bulletin (5) pp.371-390

Conference or Workshop Item

- 2018 [Multi-objective optimization of incremental sheet metal forming.](#) In: **4th International Conference on Mechanical, Automotive, and Aerospace Engineering 2018 (ICMAAE'18)**
- 2017 [Optimized vibration chamber for landslide sensory and alarm system.](#) In: **6th International Conference on Mechatronics - ICOM'17**
- 2017 [Multicollinearity and regression analysis.](#) In: **The 4th International Conference on Mathematical Applications in Engineering 2017**
- 2014 [Statistics and its importance in validating research findings.](#) In: **3rd International Conference on Mathematical Applications in Engineering (ICMAE'14)**
- 2013 [Ethical issues when using statistical analysis in research.](#) In: **3rd International Conference on Engineering Professional Ethics and Education 2013 (ICEPEE'13)**
- 2013 [Regression analysis, assumptions and related problems.](#) In: **International Conference on Computer Science and Computational Mathematics (ICCSCM 2013)**
- 2013 [Ethical issues when using statistical analysis in research.](#) In: **The 3rd International Conference on Engineering Professional, Ethics and Education 2013 (ICEPEE '13)**
- 2013 [Islamic mathematics.](#) In: **The 3rd International Conference on Engineering Professional Ethics and Education Conference 2013 (ICEPEE '13)**
- 2012 [Ethical based mathematical model to evaluate software engineering.](#) In: **2nd International conference on Mathematical Applications 2012 (ICMAE'12)**
- 2012 [Statistical techniques to serve quality of software.](#) In: **2nd International conference on Mathematical Applications 2012 (ICMAE'12)**
- 2012 [Analysis of time series by re-sampling.](#) In: **"2nd International Conference on Mathematical Applications in Engineering (ICMAE 2012)"**
- 2012 [Implementation and evaluation of an Integrated Wireless System for smart home.](#) In: **2nd International conference on Mathematical Applications 2012 (ICMAE'12)**
- 2012 [Statistical modeling for speech recognition.](#) In: **2nd International Conference on Mathematical Applications in Engineering (ICMAE2012)**

- 2012 [Analytical evaluation of a new route optimization scheme for nested mobile network](#). In: **2nd International Conference on Mathematical Applications in Engineering (ICMAE'10)**
- 2012 [Route optimization scenario of a new scheme based on nested mobile network](#). In: **International Conference on Computer and Communication Engineering (ICCCE 2012)**
- 2012 [Regression models and problems related](#). In: **Regional Applied Fundamental Science Symposium (RAFSS 2012)**
- 2012 [A framework of a route optimization scheme for nested mobile network](#). In: **19th International Conference on Neural Information Processing (ICONIP 2012)**
- 2012 [Qualitative to quantitative study for solid waste management](#). In: **2nd International Conference on Mathematical Applications in Engineering (ICMAE 2012)**
- 2010 [Potential of Nahar \(Mesua ferrea\) seed oil for industrial applications](#). In: **The 2nd International Biotechnology & Biodiversity Conference (BIOJOHOR 2010), July 6-8, 2010, Johor Bahru, Johor, Malaysia**
- 2010 [The combination of several RCBDs](#). In: **International Conference on Mathematical Applications in Engineering (ICMAE,2010)**
- 2010 [Choice of therapeutic intervention, health dimensions, and knowledge of immunology: a coincidence?](#). In: **3rd International Conference on Advancement in Science and Technology (iCAST) 2010**
- 2010 [Application of Taylor-Newton homotopy method for solving electrical engineering design problem](#). In: **Global Conference on Power Control and Optimization**
- 2010 [Islamic mathematical sciences](#). In: **International Conference on Mathematical Applications in Engineering (ICMAE'10)**
- 2010 [Extraction, fatty acid composition and antimicrobial activity of Nahar \(Mesua errea\) seeds' oil](#). In: **(ICAB-2010)**
- 2009 [Arithmetic version of boolean algebra](#). In: **2nd IEEE International Conference on Computer Science and Information Technology (ICCSIT)**
- 2009 [Application of Taylor-Newton homotopy method for solving electrical engineering design problem](#). In: **2nd International Conference on Power Control and Optimization 2009**
- 2009 [Arithmetic version of boolean algebra](#). In: **International Conference on Education, Information Technology Applications (EITA)**
- 2009 [K-sample tests based on survival analysis with interval-censored data](#). In: **Second Annual International Conference on Green Technology and Engineering (ICGTE,09),15-17 April 2009**
- 2008 [Application of nonlinear transformation in medicine](#). In: **International Conference on Advancement in Science and Technology (ICAST,2008)**

2006 [Workshop on some topics in experimental design \(for scientists and researchers\).](#) In: **International Conference on Mathematical Modelling and Computation**

2006 [Confidence interval of ration of parameters in unbalanced split plot design under fixed effect model.](#) In: **International Conference on Mathematical Modeling and Computation**

Book

2008 [Experimental design for scientists and engineers.](#) IIUM Press . ISBN 9789833855346

2002 [الإحصاء التطبيقي : طرق اختبارات الفروض وموضوعات أخرى في الاستدلال الاحصائي = al-Ihsa' al-tatbiqi : turuq ikhtibarat al-furud wa mawdu'at ukhra fi al-istidlal al-ihsa'i = Testing of hypothesis and some Topics on statistical inference .](#) Dar Shumu Athaqafa . ISBN 9959-820-07-6

Book Section

2011 [Contributions of Ashraf Ali Thanwi to mental disease treatment.](#) In: **Contributions of Muslim Scientists to Medicine and Related Sciences** IIUM Press . ISBN 978-967-418-155-0 , pp.49-53

2011 [Date seed extract as preservatives.](#) In: **Current Research and Development in Biotechnology Engineering at IIUM (volume II)** IIUM Press . ISBN 978-967-418-151-2 , pp.113-119

2011 [Natural disinfectants for water treatment.](#) In: **Current research and development in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181505 , pp.164-172

2011 [Seeds' oil as biolubricant.](#) In: **Current research and development in biotechnology engineering at IIUM (Voulume III)** IIUM Press . ISBN 9789674181444 , pp.85-91

2011 [Antimicrobial property of date seed extract.](#) In: **Current research and development in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181444 , pp.139-145

2011 [Waste to wealth: date seed pits.](#) In: **Current research and development in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181505 , pp.180-187

2011 [Ibn al Shatir's influence on modern astronomy.](#) In: **Contributions of Early Muslim Scientists to Engineering Sciences and related studies** IIUM Press . ISBN 978-967-418-157-4 , pp.12-18

2011 [Use and abuse of technology : Internet as a case study.](#) In: **Islamization, Ethics and values in Science and Technology** IIUM Press . ISBN 978-967-0225-82-1 , pp.143-156

2011 [Al-Battani contributions in astronomy and mathematics.](#) In: **Contributions of Early Muslim Scientists to Engineering Sciences and related studies** IIUM Press . ISBN 978-967-418-157-4 , pp.45-48

2011 [Quality of Service \(QOS\) issues in manets.](#) In: **Advances in mobility management for IP networks** IIUM Press . ISBN 9789674181406 , pp.181-185

- 2011** [The derivatives.](#) In: **Calculus with single variable** IIUM Press . ISBN 9789674181956 , pp.67-91
- 2011** [Multicasting challenges in wireless mesh networks.](#) In: **Multimedia Encryption, Transmission and Authentication** IIUM Press . ISBN 978-967-418-160-4 , pp.241-248
- 2011** [Introduction to multicast mobility management.](#) In: **Advances in mobility management for IP networks** IIUM Press . ISBN 9789674181406 , pp.2-8
- 2011** [Potential of Nahar seed oil extract as antimicrobials .](#) In: **Current research and development in biotechnology engineering at IIUM (volume II)** IIUM Press . ISBN 9789674181512 , pp.74-81
- 2011** [Nahar \(Mesua Ferrea\) tree as a medicinal plant .](#) In: **Current research and development in biotechnology engineering at IIUM (volume II)** IIUM Press . ISBN 9789674181512 , pp.82-89
- 2011** [Al-Razi's understanding and curing of smallpox and measles.](#) In: **Contributions of Muslim Scientists to Medicine and Related Sciences** IIUM Press . ISBN 978-967-418-155-0 , pp.35-38