



Dr. Kasim Abbas Hussain

Curriculum Vitae

Personal Information

Full Name Kasim Abbas Hussain
Family Name Al-Rekabi
Date of Birth *Jan 27th, 1973*
Gender Male
Nationality Iraqi
Address Department of Mathematics, College of Science, Al-Mustansiriyah University, Baghdad, Iraq
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Education

2014–2017 **Doctor of Philosophy (PhD)**
Field of Study Applied Mathematics (Numerical Methods For Solving Ordinary Differential Equations)
Name of University Universiti Putra Malaysia (UPM), Selangor, Malaysia
Supervisor Prof. Dr. Fudziah Ismail
Thesis Entitled Runge-Kutta Type Method for Solving Third and Fourth Order Ordinary Differential Equations
2000–2002 **Masters Degree (M.Sc)**
Field of Study Applied Mathematics (By Courses)
Name of University Indian Institute of Technology Roorkee (IIT Roorkee), Roorkee, Uttarakhand 247667, India
1991–1996 **Bachelor Degree (B.Sc)**
Field of Study Mathematics
Name of University College of Education, AL- Mustansiriyah University, Baghdad, Iraq

Experience

Academic

2002–Present Teaching Experience on Department of Mathematics, College of Science, Al-Mustansiriyah University, Baghdad, Iraq

Courses Taught Computer Programming, Linear Algebra, Theory of Ordinary Differential Equations, Partial Differential Equation

Computer skills

Microsoft Office, Microsoft Windows, C/C++, Matlab, Maple, LaTeX

Languages

Arabic (Mothertongue), English

Award

2016 Silver Medal, *PRPi16*, University Putra Malaysia.

2016 Bronze Medal, *PRPi16*, University Putra Malaysia.

Publications

- 1 Kasim Hussain, Fudziah Ismail and Norazak Senu (2016). Solving directly special fourth-order ordinary differential equations using Runge-Kutta type method. *Journal of Computational and Applied Mathematics*, 306: 179-199.
- 2 Fudziah Ismail, Kasim Hussain and Norazak Senu (2016). A sixth-order RKFD method with four-stage for Directly Solving Special Fourth-Order ODEs. *Sains Malaysiana*, 45(11): 1747-1754.
- 3 Kasim Hussain, Fudziah Ismail and Norazak Senu (2015). Two embedded Pairs of Runge-Kutta type methods for direct solution of special fourth-order ordinary differential equations. *Mathematical Problems in Engineering*, Volume 2015, Article ID 196595, 1-12.
- 4 Kasim Hussain, Fudziah Ismail and Norazak Senu (2015). Runge-Kutta type methods for directly solving special fourth-order ordinary differential equations. *Mathematical Problems in Engineering*, Volume 2015, Article ID 893763, 1-11.
- 5 Kasim Abbas Hussain, Fudziah Ismail, Norazak Senu and Faranak Rabiei (2017). Fourth-order improved Runge-Kutta method for directly solving special third-order ordinary differential equations. *Iranian Journal of Science and Technology (Sciences)*, 41: 429-437. DOI 10.1007/s40995-017-0258-1.
- 6 Kasim Abbas Hussain, Fudziah Ismail, Norazak Senu, Faranak Rabiei and Rabha Ibrahim (2015). Integration for Special Third-Order Ordinary Differential Equations Using Improved Runge-Kutta Method. *Malaysian Journal of Science*, 34(2): 172-179.
- 7 Kasim Abbas Hussain, Fudziah Ismail and Norazak Senu (2015). A new optimized Runge-Kutta Nystrom method to solve oscillation problems. *World Applied Sciences Journal*, 33 (10): 1614-1622.
- 8 Kasim Abbas Hussain, Fudziah Ismail and Norazak Senu (2016). A new optimized Runge-Kutta method for solving oscillatory problems. *International Journal of Pure and Applied Mathematics*, 106 (3): 715-723.

- 9 Kasim Hussain, Fudziah Ismail, Norazak Senu, and Faranak Rabiei (2016). Optimized fourth-order Runge-Kutta method for solving oscillatory problems. *AIP Conference Proceedings*, 1739: 1-6; doi: 10.1063/1.4952512.

Conferences

- 2016 2nd International Conference on Mathematical Sciences and Statistics (ICMSS2016), 26-28 January 2016, Presenter, Kuala Lumpur, Selangor, Malaysia
- 2015 The 7th International Conference on Research and Education Mathematics (ICREM7), 25-27 August 2015, Presenter, Kuala Lumpur, Malaysia
- 2015 The Fundamental Science Congress, 12-13 November 2015, Presenter, Faculty of Science, UPM, Selangor, Malaysia

Workshops

- 2017 4th International Workshop on Nonlinear and Modern Mathematical Physics (NMMP-2017), 4-5 May 2017, Presenter, Putrajaya, Malaysia
- 2016 3rd Seminar and Workshop on Numerical Analysis (SAWONA2016), 26-27 April 2016, Participant, Universiti Putra Malaysia, Malaysia
- 2015 Workshop on Fuzzy Setting Theory, 11-12 February 2015, Participant, Universiti Putra Malaysia, Malaysia
- 2014 2nd Seminar and Workshop on Numerical Analysis (SAWONA2014), 29-30 April 2014, Participant, Universiti Putra Malaysia, Malaysia