

Curriculum Vitae

1-Personal Information

Name: *Mahmood D. Jasim Alani*

Date and place of birth day : *IRAQ-MOSUL 30-04-1974*

Sex: *male*

Nationality: *Iraqi*

Blood Group : *O⁺*

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<https://scholar.google.com/citations?user=GNRNNkoAAAAJ&hl=ar>



2- Educational Degree

-*PHD. in science of Mathematics and physics, University of Voronezh, Russia (2008-2012)*

Асимптотическое поведение решений систем дифференциальных уравнений и оптимизация ветвей бифурцирующих циклов

Asymptotic behavior of solutions of systems of differential equations and optimization cycles bifurcating branches

- *M.Sc. in science of Mathematics, College of Education, University of Mosul (1999-2000)*

Parallel Runge – Kutta methods for MIMD computers

- *B.Sc. in science of Mathematics, College of Education, University of Mosul (1996-1997)*

3-Experiences

- *Member of faculty in College of Basic Education, University of Mosul - Iraq (from 2005 until Now)*

- *Member of faculty in institute of Teachers, Az-Zawiya – Libya (2001-2004)*

- *Member of faculty in College of Teachers, University of 7– April, Az-Zawiya – Libya (2004-2005)*

- *Member of Iraqi Physics and Mathematics Society*

- *Member of Iraqi Computer Society*

- *Worked as External Lecturer in University of Al-Wathika Al Kadraa, College of Science, Libya*

- *Worked as External Lecturer in College of Teachers, Al-Fateh University, Al-Zahraa – Libya*

- *Worked as External Lecturer in College of Teachers, University of 7 April, Al-Ojaelat – Libya*

- *Worked as External Lecturer in University of Africa For Free Education, Libya*

- *Worked as External Lecturer in Institute of Al-Nahar Al Senaee for free education, Az-Zawiya –Libya*

- *Worked as External Lecturer in Al-Maarefa institute for free education, Libya*

4-Scientific Activity

- *Experienced for 22 years in teaching Mathematics Materials for Bachelor Students in many Institutes and universities*

- *Participation in the Scientific Colloquium in Institute of Teachers, Az-Zawiya – Libya 7-8/4/2003*

- *Member in curriculums preparing commission in the Higher Institute of Africa, Az-Zawiya, 2003*

- *Supervising on graduating researches of 4th stages students of Bachelor degree*

- *Supervising on 4 stage Students on field Training (Primary Teaching)*

5-Computer

Windows 7, Office2010 (Word, Excel, Power point), Internet.

6-Languages

Arabic (Mother Language), English, Russian.

7-Researches

- [1] Khalaf , B. M. S. and Mahmood, D. AL-Ani : “ Parallel Runge – Kutta Methods for Solving Initial Value Problems in Ordinary Differential Equations “ , Raf. J. of Comp. & Math ’ s. ,Vol. 11 , No. 3 , pp. 64 – 83 , (2000).
- [2] Alok Dwivedi, R.K Isaac, Avinash Dwivedi, Ali J. Gatea and Mahmood D. Jasim : " Adoption of E-learning Modes and Technologies", Excel India publishers 21-22 march 2009, pp 48-51., Centre for computer science Ewing Christian college-211003,
- [3] Jasim M.D. , A.R. Efendiev : "On the area of influence of a singular point of a nonlinear system of differential equations of a special form", vestnik.dgu, issue 6. - 2010. - pp.55-63.
- [4] Jasim M.D. A.R. Efendiev: " On the first integral nonlinear systems of differential equations", Materials of the 5th international conference "FDU and their applications". Makhachkala, DGU. September 26-29, 2010 . pp. 96-102.
- [5] Jasim M.D. , A.R. Efendiev: " study of a nonlinear system of differential equations, vestnik.dgu, issue 1. - 2012 .-- pp. 72-74.
- [6] Jasim M.D. , D.V. Kostin: " About one problem of P.K. Suetin in the mathematical theory of antennas" , Proceedings of the International Conference S.G. Kerin, 25 January - 2 February 2012 Voronezh, ed. VSU, 2012. pp. 112-114.
- [7] Jasim M.D. , A.P. Karpova, D.V. Kostin, A.R. Efendiev: " Amplitude optimization of bifurcating cycles in the presence of multiple resonances", vestnik.dgu, issue 1, 2012 . pp. 99-105.
- [8] Jasim M.D. , A.P. Karpova, D.V. Kostin, A.R. Efendiev: " Optimization of cycles bifurcating in the presence of multiple", Preprint № 43 NIIM VSU, 2012, Voronezh: VSU. - 2012 .pp 23 -.
- [9] S.A. Al-Joufi, M.D. Jasim, A.Kh. Katkhim: " Distribution laws of the zeros of solutions of the Valais-Poussin boundary value problem for a fifth-order linear differential equation", Modern methods of boundary value problems (materials of the Voronezh spring mathematical school "Pontryagin readings - XXIII"). 2012. Voronezh, pp. 6-9.
- [10] S.A. Al-Joufi., M.D. Jasim. A.R. Efendiev: " On the properties of one nonlinear system", Actual problems of mathematics and related issues (materials of the International conference "Mukhtar Readings". Makhachkala, 2012, DSTU, pp. 100-104.
- [11] S. A. Al-Joufi., M.D. Jasim., A.Kh. Katkhim: " Distribution laws of the zeros of solutions to the de la Vallée Poussin boundary value problem for a fifth-order linear differential equation", Modern methods of boundary value problems (materials of the Voronezh spring mathematical school "Pontryagin readings - XXIII"). Voronezh, 2012, pp. 6-9.
- [12] Parallel Second Order Runge – Kutta new method of the Geometric –Mean 2020
- [13] Predictor Corrector Parallel Based on the Geometric Mean Runge Kutta formula for solving Initial Value Problems 2020
- [14] Using the Centrodal Mean to Building Parallel Predictor Corrector Runge Kutta Method 2021
- [15] Jasim, M. D. (2021) “A new method using the Forward Backward technique with Contra Harmonic mean formula,” in Journal of Physics: Conference Series, Jul., vol. 1963, no. 1, doi: 10.1088/1742-6596/1963/1/012018.
- [16] Jasim, M. D., (2021) “Implementation of the Heronion mean (HeM) in the predictor corrector mode,” J. Interdiscip. Math., vol. 24, no. 7, pp. 1917–1923, , doi: 10.1080/09720502.2021.1964738.
- [17] Jasim, M. D., (2021) “Two new Runge Kutta methods based on the root mean square formula for solving IVPs in ODEs,” J. Interdiscip. Math., vol. 24, no. 7, pp. 1947–1953, doi: 10.1080/09720502.2021.1981029.

8-conferences

- 1. Adoption of E-learning Modes and Technologies", Excel India publishers 21-22 march 2009**
- 2. The 5th international conference "FDU and their applications". Makhachkala, Russia. September 26-29, 2010**
- 3. The International Conference S.G. Kerin, 25 January - 2 February, Voronezh, Russia, 2012.**
- 4. The Voronezh spring mathematical school "Pontryagin readings - XXIII"). Voronezh, Russia, 2012 .**
- 5. The International conference "Mukhtar Readings". Makhachkala, Russia, 2012.**
- 6. The Third International Scientific Conference (10-11 April 2019) the first joint between the College of Basic Education at the Universities of Mosul and Dohuk under the slogan "Integration of science towards achieving education goals", 2019.**

- 7. The West Asia Mathematical School (WAMS-Izmir-2019) entitled "Mathematics and their interactions", organized in cooperation with CIMPA, Nantes University at the Nesin Mathematics Village-Izmir Turkey, for the period from 27 October to 3 November 2019.**
- 8. 1st International Conference on Advanced Research in Pure and Applied Science, 24th-25th March, College of Science, Al-Muthanna University, Iraq, 2021.**
- 9. 2nd International Conference on Physics and Applied Sciences (ICPAS 2021), College of Education, Mustansiriyah University, Baghdad, Iraq, 26-27 MAY, 2021.**
- 10. The First International Student Conference, Sustainability A concept to guide reconstruction and reconciliation process, 6-10 march 2022, Mosul University, Mosul, Iraq, 2022.**