



CURRICULUM VITA

MOHAMMED WAJID MOHAMMEDALI AL-NEAMA

1- PERSONAL DATA



Name : Mohammed Wajid MohammedAli Al-Neama

Date of Birth : July 18, 1973

Place of Birth : Baghdad - IRAQ

Nationality : Iraqi

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2- ACADEMIC/PROFESSIONAL PARTICULARS

(a) Field of Specialization:

- Parallel and Distributed Computing, Parallel and Distributed Algorithms, Bioinformatics, Numerical Analysis, E-Learning.

(b) Academic Qualifications:

- BSc. Computational Mathematics, 1995, Mosul University, IRAQ, GPA 76.5% with rank (1st) out of (52)students.
- M.Sc. Computational Mathematics, 2004, Mosul University, IRAQ, "Parallel Simplex Method", GPA 73%,with rank (2nd).
- PhD. Computational Mathematics, 2014, Al-Azhar University, Cairo-Egypt "A Study of Parallel Algorithms of Multiple Sequence Alignment".

(c) Academic Honors and Awards:

- Creativity Award, Mosul University, 2004.
- Creativity Award, Mosul University, 2010.
- Creativity Award, Mosul University, 2019.

(d) Membership of Professional Bodies:

- Iraqi Association for Computers, member, since 04/1997.
- The Egyptian Mathematical Society, since 03/2011.
- IEEE, Member#94378301, IraqSection, since 07/2017.

(e) Language Proficiency:

- Arabic / Mother Language.
- English / V.Good.
- Turkish / Fair.



3- CAREER DETAILS:

(a) Academic Positions Held:

- Lecturer & Researcher, Education College for Girls, University of Mosul-IRAQ, from (10/2006-08/2014).
- Lecturer & Researcher, Computer Science Dept., New Cairo Academy, Cairo- Egypt, from (09/2014-10/2015).
- Assistant Professor & Researcher, Education College for Girls, University of Mosul- IRAQ, from (10/2018-Yet).

(b) Professional / Industrial Position Held:

- Programmer, School of Computer Science, Ministry of Military, IRAQ, from (10/95 - 04/1997).
- Information Technology Trainer, Al-Huda Institute for Computer Sciences, IRAQ, from (05/97-09/2004).
- Information Technology Coordinator, USAID Organization, Mosul- IRAQ, from (09/2004-10/2010).

(c) Administrative Positions Held

- Director Manager, Al-Huda Institute for Computer Sciences, IRAQ, from (05/97-09/2004).

4- TEACHING

(a) Summary of Courses Taught:

- Introduction to Computer Science.
- Intermediate and Advanced Database.
- Computer Application in Report preparation.
- Internet Application and Multimedia.
- Operation Research.
- Mathematics for Computer Science.

(b) Research Students Supervised/Trained:

<u>Level</u>	<u>Number of Trainees</u>
Undergraduate Student	30

(c) Training:

- Teaching Methods and Techniques Instruction, teaching methods and training center, University of Mosul-IRAQ, (10/2005).
- Role in the IT Course, MSI-USAID Organization, Erbil-IRAQ, (07/2007).
- CompTIA A+, RiTS Technical Education Center, IRAQ, from (01/08– 02/08).
- MCSE-2273B, RiTS Technical Education Center, IRAQ, from (02/08– 03/08).
- Joint EPIKH/EUMEDGRID-Support School for Grid Site Administrators, Cairo University, EGYPT, (10/2010).
- Joint EPIKH/EUMEDGRID-Support School for Application Porting, Cairo University, EGYPT, from (10/10 – 11/10).



5- RESEARCH:

(a) Research Interests:

- Parallel and Distributed Algorithm.
- High Performance Computing
- Bioinformatics.
- Numerical Analysis Methods.

(b) Publications/Citations Data:

Type of Publication	Number of Publications
Article in International Refereed Journals	15
Conference Papers	6
Books	4
Citation Source	Number of Citations
IEEE	4
BiobMed	1
WordScientific	1
Springer	1
ISI	1

(c) Participation in Regional & International Conferences:

- Applied Computing to Support Industry Innovation and Technology, International Conference, ACRIT 2019, Ramadi, Iraq, September 15–16, 2019.
- The 5th IEC19, Ishik University, with IEEE in Erbil, Kurdistan, 23-25 June 2019.
- The 1st International Scientific Conference, Cihan University/Sulimaniya, Kurdistan Region, 24-25 May, 2017.
- International Conference on Current Research in Computer Science and Information Technology, UHD, Sulimaniya, Kurdistan Region, 26-27 April 2017.
- The 4th International Scientific Conference for Computer Science and Information Technology, UHD, Sulimaniya, Kurdistan Region, 8-9 April 2017.
- The 3rd LinkSCEEM General User Meeting Bibliotheca Alexandria, Bibliotheca Alexandria, EGYPT, June 23-25, 2013.
- The 2nd International Conference on Circuits, Systems, Communications, Computers and Applications, Dubrovnik, Croatia, June 25-27, 2013.
- Applications of Digital Information and Web Technologies, London, UK, Aug. 1-3, 2009.

6- SERVICE:

(a) University Service:

- Computer Science Center, IRAQ, from (08/2009-06/2010), University Website Committee.
- Presidency Mosul University, IRAQ, from (06/2008-06/2009), Committee of University Media Preparation

(b) Service to Profession/Industry:

- USAID, IRAQ, Training of Employee, (07/07-09/2010).



7- LIST OF PUBLICATION:

(a) International Refereed Journals (in press):

- Mohammed W. Al-Neama, Efficient Performance of Parallel Cholesky Factorization Using Multi-core System, International Journal of Enhanced Research In Science Technology & Engineering (IJERSTE), vol.(7), no.(1). http://www.erpublications.com/uploaded_files/download/mohammed-w-al-neama-iraq_vQSIZ.pdf.
- Salwa M. Ali , Mohammed W. Al-Neama, Zaid A. Aljawary and Kasim A. Al-Salem., A Statistical Transformation Tool for Natural Semantics, International Journal of Applied Engineering Research (IJAER), in press.
- Mohammed W. Al-Neama, Nagla M. Reda and Kasim A. Al-Salem., MSAPVect: An Improved MSAProbs algorithm for Multi-core System, IEEE, in press.
- Salwa M. Ali , Mohammed W. Al-Neama and Kasim A. Al-Salem. An Efficient Parallel Algorithm for Improving Multiple Sequence Alignment on Multi-core, UHD Journal of Science and Technology, in press.

(b) International Refereed Journals:

- Mohammed W. Al-Neama and Kasim A. Al-Salem., ACCELERATION OF DISTANCE COMPUTATION FOR MULTIPLE SEQUENCE ALIGNMENT ON MULTI-CORE ARCHITECTURES. Int. J. Adv. Res. 5(1), 1239-1245, DOI: 10.21474/IJAR01/2877.
- Nagla Mohammed Reda, Mohammed Wajid Al-Neama and Prof Fayed G. Mohammed, HANSA: Highly Accelerated Multiple Sequence Aligner, International Journal of Advanced Computer Science and Applications (IJACSA), 7(6), 2016, DOI: 10.14569/IJACSA.2016.070661.
- Mohammed Wajid Al-Neama, Nagla Mohammed Reda and Prof Fayed G. Mohammed, Fast Vectorized Distance Matrix Computation for Multiple Sequence Alignment on Multi-cores, International Journal of Biomathematics, Singapore, Vol. 8, No. 6, 2015. ©WorldScientific Publishing Company, DOI: 10.1142/S1793524515500849.
- Mohammed Wajid Al-Neama, Nagla Mohammed Reda and Prof Fayed G. Mohammed, An Improved Distance Matrix Computation Algorithm for Multicore Clusters, BioMed Research International journal (formally titled Journal of Biomedicine and Biotechnology) at the special issue "High-Performance Computing and Big Data in Omics – based Medicine", America, 2014.
- Mohammed Wajid Al-Neama, Nagla Mohammed Reda and Prof Fayed G. Mohammed, Accelerated Guide Trees Construction for Multiple Sequence Alignment, International Journal of Advanced Research, India, 2014.



- **Mohammed Wajid Al-Neama, Parallel Iteration Methods, Tikreet J. of Sciences, 2010.**
- **Prof. Bahir M. S. Khalaf and Mohammed Wajid Al-Neama, Parallel Direct Search Methods, Raf. J. of Comp. & Math's, Mosul-IRAQ, 2010.**
- **Mohammed Wajid Al-Neama, Parallel Gaussian Elimination Method, Raf. J. of Comp. & Math's., Mosul-IRAQ, 2008.**
- **Prof. Bahir M.S. Khalaf and Mohammed Wajid Al-Neama, Parallel Simplex Method, Raf. J. of Comp. & Math's., Mosul-IRAQ, Pp:67-86, 2005.**

(c) Conference Paper:

- **Mohammed W. Al-Neama, Ali S.M., Malallah F.L., Saeed M.G. (2020) An Effective Protein Multiple Structure Alignment Using Parallel Computing. In: Khalaf M., Al-Jumeily D., Lisitsa A. (eds) Applied Computing to Support Industry: Innovation and Technology. ACRIT 2019. Communications in Computer and Information Science, vol 1174. Springer, Cham.**
- **Mohammed W. Al-Neama, S. M. Ali and E. A. Ahmed, "An Efficient Parallel Algorithm for Global Sequence Alignment on Multi-cores," 2019 International Engineering Conference (IEC), Erbil, Iraq, 2019, pp. 147-152.**
- **Salwa M. Ali , Mohammed W. Al-Neama, Zaid A. Aljawary and Kasim A. Al-Salem., A Statistical Transformation Tool for Natural Semantics, The 1st International Scientific Conference, Cihan University/Sulimaniya, Kurdistan Region, 24-25 May, 2017.**
- **Mohammed W. Al-Neama, Nagla M. Reda and Kasim A. Al-Salem., MSAPVect: An Improved MSAProbs algorithm for Multi-core System, IEEE Conference International Conference on Current Research in Computer Science and Information Technology, UHD, Sulimaniya, Kurdistan Region, 26-27 April 2017.**
- **Salwa M. Ali , Mohammed W. Al-Neama and Kasim A. Al-Salem. An Efficient Parallel Algorithm for Improving Multiple Sequence Alignment on Multi-core, UHD Journal of Science and Technology The 4th International Scientific Conference for Computer Science and Information Technology, UHD, Sulimaniya, Kurdistan Region, 8-9 April 2017.**
- **Prof Fayed G. Mohammed, Nagla M. Reda and Mohammed W. Al-Neama, An Overview of Multiple Sequence Alignment Parallel Tools, The 2nd International Conference on Circuits, Systems, Communications, Computers and Applications, Dubrovnik, Croatia, June 25-27, Pp:91-96, 2013.**
- **Prof. Bahir M.S. Khalaf and Mohammed Wajid Al-Neama, Generalized parallel algorithms for BVPs in ODEs, Applications of Digital Information and Web Technologies, London, UK, Aug. 1-3, UK, Pp: 759 – 765, 2009.**



(d) Books:

- Mohammed Al-Neama, "Information Technology", IRAQ, 2008.
- Mohammed Al-Neama, "Office Applications (Word Processing and Excel Sheet)", IRAQ, 2009.
- Mohammed Al-Neama, "Introduction to Database", Cairo-Egypt, 130, 2014.
- Mohammed Al-Neama, "A Study of Parallel Algorithms of Multiple Sequence Alignment", LAP LAMBERT Academic Publishing (2016), <https://www.morebooks.de/store/gb/book/a-study-of-parallel-algorithms-for-multiple-sequence-alignment/isbn/978-3-659-88378-1>.

8- References:

- Prof. Dr. A.-S. F. Obada, Math. Dept., Faculty of Science, Al-Azhar University, Cairo-EGYPT.
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- Prof. Dr. Fayed F. M. Ghaleb, Math. Dept., Faculty of Science, Ain Shams University, Cairo-EGYPT.
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- Prof. Dr. Abbas Younis Al-Bayati, President of University of Talafer, Mosul, IRAQ.
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