

Curriculum Vitae

Last Updated: June 07, 2015

Asso. Prof. Dr. Raed Ibraheem Hamed

Associate Professor of Information Systems
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Technical Biography

Dr. Raed Ibraheem Hamed is an associate professor (faculty staff member) of Information Systems at Anbar University since December 2005. He obtained his M.Sc. in Information Technology from University of Technology, Baghdad Iraq in 2004 and his Ph.D. in Computer Science from the University of Jamia Millia Islamia, New-Delhi-110025, India, in 2011. He carried out Doctoral Degree on Computer Science at the University of JMI. From October 2005 he was Assistant Professor in the Department of Computer Science, College of Computer, University of Anbar, where he taught in the B.Sc. (Computer Science) course.

His personal research interests include Bioinformatics and computational technology, Petri nets modeling and simulating, databases and data mining, and fuzzy logic applications to predictive modeling. Dr. Raed has authored over 44 publications including 14 journal papers, 22 refereed international conference papers and 8 national

conference papers. He has invited talks in conferences in India and China. He is a member of IEEE Computer Society.

Academic Degrees

- **Ph.D.** Computer Science, Department of Computer Science, Faculty of Natural Sciences, University of Jamia Millia Islamia, (A Central University), New-Delhi, India, 2011. Advisor: Prof. Syed I. Ahson.
- **M.Sc.** Information Technology, Department of Computer Science, University of Technology, Baghdad, Iraq, 2004. Advisor: Dr. R. Abdul Shaheed.
- **B.Sc.** Computer Science, Department of Computer Science, Faculty of Sciences, Ranked the first out of 110 students, Baghdad College of Economic Sciences University, Baghdad, Iraq, 2002.

Academic Appointments

- June 2014 – Till Date, Associate Professor, Information Systems Department, College of Computer, University of Anbar, Anbar, Iraq.
- July 2012 – May 2014, Assistant Professor, Information Systems Department, College of Computer, University of Anbar, Anbar, Iraq.
- July 2011 - 2012, Assistant Professor, Head of Information Systems Department, College of Computer, University of Anbar, Anbar, Iraq.
- Oct. 2005 – June 2011, Assistant Lecturer, Department of Computer Science, College of Computer, University of Anbar, Anbar, Iraq.
- Oct. 2004 – Oct. 2005, Assistant Lecturer, Department of Computer Science, Baghdad College of Economic Sciences University, Baghdad, Iraq.
- Oct. 2004 – Oct. 2005, Assistant Lecturer, Department of Computer Science, Maaref College University, Ramadi, Anbar, Iraq.
- Oct. 2002 – Oct. 2004, Lab Management, Department of Computer Science, Baghdad College of Economic Sciences University, Baghdad, Iraq.

Fields of Specialization

- Bioinformatics and Computational Technology,
- Petri Nets Modeling and Simulating,
- Databases and Data Mining,
- Fuzzy Logic Applications to Predictive Modeling,
- Application of AI for real world problems,
- Workflow management systems,

Academic/Professional Awards

- Dean's Award for Public Service, Anbar University, 2012
- Science Day Award from ministry of higher education and scientific research, Creativity Research , 2010
- Excellence in Graduate Education Faculty Recognition Award, Baghdad College of Economic Sciences University, 2005
- Chancellor's Award for Graduate (Ranked **First** out of 110 students in B.Sc. Degree), 2002

Professional Memberships and Activities

- Reviewer of, IEEE/ACM Transactions on Computational Biology and Bioinformatics,
- Member of IEEE Computer Society.
- Reviewer of, American Association for Science and Technology (AASCIT) Journal
- Member of Program Committee of International Journal of Automation and Computing. IJAC, ISSN 1476-8186.
- Reviewer of Bioinfo Publications Peer-Reviewed Journals: Bioinfo Publications more than 300 Open Access journals covering a wide range of academic disciplines.
- Reviewer of, 2nd International Conference on Electronics and Optoelectronics (ICEOE 2012), Shenyang Liaoning, China.
- Reviewer of, International Conference on Advances in Computing, Communication and Control-2011 to be held from 28-29, January 2011, Lecture Notes in Computer

Science, Springer-Verlag Berlin Heidelberg , in Fr. Agnel Ashram, Bandstand, Bandra. Mumbai, Maharashtra, India.

- Program committee member of "International Conference on Artificial Intelligence and Applications (AIFU 2015)" to be held in Dubai, UAE.
- Program committee member of "International Conference on Advances in Mechanical Engineering (AME 2015)" to be held in Dubai, UAE.
- Program committee member of "Second International Conference of Artificial Intelligence and Fuzzy logic (AI&FI 2015)" to be held in Dubai, UAE.
- Program committee member of of (CNSA-2011, NeCoM 2011,WeST 2011, WiMoN, AICTY 2011):- The Fourth International Conference on Network Security & Applications (CNSA-2011). July 15 - 17, 2011, Chennai, India. The Third International conference on Networks & Communications (NeCoM-2011). July 15 - 17, 2011, Chennai, India. The Third International Conference on Wireless & Mobile Networks (WiMoN-2011). July 15 - 17, 2011. Chennai, India. The Third International Conference on Web & Semantic Technology (WeST-2011). July 15 - 17, 2011. Chennai, India.
- Program committee member of "Third International Conference of Advanced Computer Science & Information Technology (ACSIT-2015)" to be held in June 13 ~ 14, 2015, Zurich, Switzerland.
- Technical program committee of "2nd International Conference on the Modern Development of Humanities and Social Science (MDHSS2015)", to be held in July 26-27, 2015, Phuket, Thailand.
- Program committee member of "The 2015 International Conference on Automation, Cognitive Science, Optics, Micro Electro-Mechanical System, and Information Technology (ICACOMIT 2015)" will be held on October 28 – 30, 2015 in Bandung, Indonesia.
- Program committee member of "Second International Conference on Data Mining and Database (DMDB - 2015)" to be held in May 23 ~ 24, 2015, Vienna, Austria.
- Program committee member of "International Conference on Mechanical Engineering" (MECN 2015)" to be held in June 27~28, 2015, Bangalore, India.

Students Supervised

I am currently supervising a postgraduate student:

M.Sc. Students:

1. **Safa Abdul-Wahhab Hameed.** "Determine the Confidence Value Prediction of DNA Sequencing with Intelligent Model". Computer Science Department, College of Computer, University of Anbar, Ramadi, Al-Anbar, Iraq.

Regular reviewer for international journals:

2. IEEE/ACM Transactions on Computational Biology and Bioinformatics
3. IEEE Transactions on Automation Science and Engineering
4. IEEE Transactions on Systems, Man and Cybernetics: Systems
5. Journal of Computer Science and Technology

Contact Information

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Personal information:

Date of Birth: November 05, 1977 (Anbar, Iraq)

Marital Status: Married (on July 6, 2009)

No. of Children: Two (We have been blessed with a beautiful daughters, [Roaa](#) on March, 15, 2010 and [Rita](#) on April, 05, 2013).

Teaching Experience

In the last **12 years**, Raed I Hamed was responsible for the following courses given at University of Anbar, Baghdad College of Economic Sciences University and Maaref College University:

Course	Year
Programming languages	2004-2005
Computation Theory	2004-2005
Information Theory	2004-2005
Internet Technologies	2004-2005 2005-2006
Information Technology	2005-2006 2006-2007
Introduction to Computer Technology	2005-2006
Databases	2006-2007
Data Mining	2006-2007
Information system analysis	2006-2007
Computing and Society	2011-2012
Software Engineering	2011-2012; 2012-2013 ; 2013-2014
Human-Computer Interactions	2012-2013; 2013-2014
Enterprise Systems Development	2012-2013; 2013-2014
Computing In Education	2012-2013; 2013-2014

List of Publications

Total Publications	44
International Refereed Journals	14
International Conferences	22
National Conferences	8

Refereed Papers Published in International Journals

- 1. Raed I. Hamed. Hierarchical Clustering for Categorical and Normal Attributes.** Journal of Baghdad College of Economic Sciences University. Vol. 15, pp.1-12. April, 2008.
- 2. Raed I. Hamed, Dr. Rafat Parveen, and Prof. Syed I. Ahson. Modeling Cellular Processes of the Eukaryotic DNA Using Hybrid Functional Petri Nets.** International Journal of Bioinformatics. ISSN: 0974-6439, India. Vol. 1(2), pp. 53-56, 2008.
- 3. Raed I. Hamed, and Dr. Rafat Parveen. Designing Biological Processes Model based on Petri Nets.** International Journal of Bioinformatics. ISSN: 0974-6439, India. Vol. 1(2), pp. 62-64. 2008.

- 4. Raed I. Hamed**, Dr. Rafat Parveen, and Prof. Syed I. Ahson. **Petri Nets Modeling and Simulation of Transcriptional Regulation in *E. coli***. A Journal of Bioinformatics- and Its Applications, Bioinformatics Trends, India. Vol. 4 (2&3), pp. 87-91, 2009.
- 5. Raed I. Hamed**, Prof. Syed I. Ahson, and Dr. Rafat Parveen. **A New Approach for Modeling Gene Regulatory Networks Using Fuzzy Petri Nets**. Journal of Integrative Bioinformatics (JIB), Germany. Vol. 7(1):113, pp. 1-16, 2010.
- 6. Raed I. Hamed**, Prof. Syed I. Ahson, and Dr. Rafat Parveen. **Designing Genetic Regulatory Networks Using Fuzzy Petri Nets Approach**. (IJAC), *Springer-Verlag Berlin Heidelberg*, Vol. 7(3), pp. 403-412, 2010.
- 7. Raed I. Hamed**, Prof. Syed I. Ahson and Dr. Rafat Parveen. **A New Interpretation of Gene Expression Microarray Data Sets Using Fuzzy Petri Net Approach**. International Journal of Engineering Research & Industrial Applications (IJERIA). ISSN 0974-1518, India. Vol.3, No. I, pp 11-25, 2010.
- 8. Raed I. Hamed** and Syed I. Ahson. **Confidence Value Prediction of DNA Sequencing with Petri Net Model**. ScienceDirect-Elsevier, Journal of King Saud University of Computer and Information Sciences, KSU-CIS Journal. Vol. 23, (2), pp. 79-89, 2011.
- 9. Raed I. Hamed**. **Towards a Formal Fuzzy Framework for Modeling and Stationary Analysis of GRNs**. International Journal of Computer Science & Management System (IJCSMS). Vol. 3, (1), pp. 9-17, 2011.
- 10. Raed I. Hamed**. **Design Principles for Regulation of Gene Expression with Fuzzy Expert Networks**. International Journal of Science and Technology (IJSAT), Vol. 2, (2), pp. 23-34, 2011.
- 11. Raed I. Hamed**. **Fuzzy Models in Measuring Gene Expression Levels**. **BOOK CHAPTER**, "Fuzzy Logic / Book 1", ISBN 979-953-307-578-4. InTech Publisher.
- 12. Raed I. Hamed**. **A Novel Complex Knowledge System Modeling Based On Intelligent Techniques for Inferring Genetic Interactions**. International Journal of Information Technology and Systems (IJITS). Vol. 2, No. 2, pp. 29-37, July-Dec. 2013
- 13. Raed I. Hamed**. **Expert Systems of Adaptive Fuzzy Reasoning-Based Implementation for Velocity Estimation of Servo Motor System**. International Journal of Computer Science and Control Systems (JCSCS). Vol. 7, No. 1, pp. 4-14, May 2014.
- 14. Raed I. Hamed**. **Esophageal Cancer Prediction Based on Qualitative Features Using Adaptive Fuzzy Reasoning Method**. ScienceDirect-Elsevier, Journal of King Saud University of Computer and Information Sciences, KSU-CIS Journal, Volume 27, Issue 2, Pages 129–139, April 2015.

Refereed Papers Published in International Conference Proceedings

- 1. Raed I. Hamed**, Prof. Syed I. Ahson and Dr. Rafat Parveen. **The Dimensions of Petri nets: Modeling Strategies for Gene Regulatory Networks**. Second International Conference on Advances in Computer Vision and Information Technology (ACVIT-2009). Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India. December 16-18, pp. 359-368, 2009.
- 2. Raed I. Hamed**, Prof. Syed I. Ahson and Dr. Rafat Parveen. **From Fuzzy Logic Theory to Fuzzy Petri Nets Predicting Changes in Gene Expression Level**. International Conference on Methods and Models in Computer Science (ICM2CS-09), (*IEEE Xplore*), Jawaharlal Nehru University, New Delhi, India, December 14-15, pp. 139-145, 2009.
- 3. Raed I. Hamed**, Prof. Syed I. Ahson, and Dr. Rafat Parveen. **Fuzzy Model for Gene Regulatory Networks Based on Fuzzy Reasoning Petri Nets**. 4th International Conference on Quality, Reliability and Infocom Technology and Mathematical Modeling and Related Optimization Techniques (trends and future directions). University of Delhi. New Delhi, India, December 18-20, 2009.
- 4. Raed I. Hamed**, Prof. Syed I. Ahson and Dr. Rafat Parveen. **Inferring Gene Regulatory Networks from Microarray Datasets Using Fuzzy Petri Net Approach**. 1st IFIP International Conference on Bioinformatics. Sardar Vallabhbhai National Institute of Technology, SURAT, India, March 25-28, 2010.
- 5. Raed I. Hamed**, Dr. Rafat Parveen and Prof. Syed I. Ahson. **Modeling and Simulation Gene Expression Regulatory Networks with Fuzzy Petri Net Models**. International Conference on Computational Intelligence and Application (ICCIA-2010), Sandip Foundation's, Nashik, India, March 03-05, pp. 143-153, 2010.
- 6. Raed I. Hamed**, Prof. Syed I. Ahson and Dr. Rafat Parveen. **Fuzzy Reasoning Boolean Petri Nets Based Method for Modeling and Analysing Genetic Regulatory Networks**. 3rd International Conference on Contemporary Computing (IC3-2010), (*Springer-Verlag Berlin Heidelberg (Book Chapter)*), Noida-201307, Uttar Pradesh, India, August 9-11, Vol. 94(1), pp. 530–546, 2010.
- 7. Raed I. Hamed**. **Evolving Fuzzy Petri Net Rules-Based Computational Approach to Model and Simulate Gene Expression Levels**. International Conference on Emerging Trends in Engineering and Technology (IETET-2010), Kanipla, Kurukshetra-136118, Haryana, India, October 14-16, pp. 213-221, 2010.
- 8. Raed I. Hamed**. **A Systematic Approach for Intrusion Detection Based on Extended Fuzzy Petri Net**. International Conference on Computer Applications (ICCA 2010), Lawspet, Pondicherry - 605 008. India. December 24-27, 2010.
- 9. Raed I. Hamed**. **Fuzzy Reasoning Neural Petri Net Based Method for Knowledge-Based Systems in Biological Regulatory Networks**. 4th IEEE International Conference

of Advanced Computing and Communication Technologies (ICACCT2010), Panipat-132103 Haryana, India. October 29-31, pp. 150-158, 2010.

10. Raed I. Hamed. Inferring Gene Interactions from Microarray Gene Expression Data Using Fuzzy Petri Net. IEEE International Conference on Communication, Control and Computing Technologies (ICCCCT-2010), (*IEEE Xplore*), Syed Ammal Engineering College, Ramanathapuram and Kanyakumari, Tamilnadu, India. October 7-9, 2010.

11. Raed I. Hamed. A New Approach of Fuzzy Neural Petri Net for Gene Expression Level. International Conference on Computational Engineering Practices and Techniques, (ICONCEPT2010). M E S College of Engineering – Kuttippuram, Kerala, India, November 25-26, 2010.

12. Raed I. Hamed. Towards a Formal Fuzzy Framework for Modeling and Stationary Analysis of Gene Regulatory Networks. International Conference on Next Generation Communication and Computing Systems (ICNGC2S-10), Institution of Engineers, Technocrats and Academician Network (IETAN), Chandigarh, India. December 25-26, 2010.

13. Raed I. Hamed. A Formal Fuzzy Framework for Knowledge-Based System Analysis of Data Expression of Genetic Regulatory Networks. International Conference on Emerging Trends in Mathematics and Computer Applications, (ICETMCA2010). Sivakasi-626005, Tamil Nadu, India. December 16-18, 2010.

14. Raed I. Hamed. Fuzzy Neural Petri Net Based Method for Knowledge Representation of Microarray Gene Expression Level. International Conference on Biomedical Engineering and Assistive Technologies, (BEATS-2010). Dr. B R Ambedkar National Institute of Technology, Jalandhar Punjab-144011, India. December 17- 19, 2010.

15. Raed I. Hamed. Weighted Fuzzy Production Rules-Based Approach for Modeling Gene Regulatory Networks. International Congress On Productivity, Quality, Reliability, Optimization and Modelling, (ICPQROM 2011),. Indian Statistical Institute, 7, SJS Sansanwal Marg, New Delhi - 110003, India. February 7-8, 2011.

16. Raed I Hamed. Computational Modeling and Dynamical Analysis of Genetic Networks with FRBPN- Algorithm. International Conference on Advances in Computing, Communication and Control-2011 (ICAC3). (*Springer-Verlag Berlin Heidelberg (Book Chapter)*), Fr. Agnel Ashram, Bandstand, Bandra. Mumbai. January 28-29, CCIS 125, pp. 49–55, 2011.

17. Raed I Hamed. A Petri Net-Fuzzy Predication Approach for Confidence Value of Called Genetic Bases. International Conference on Advances in Computing, Communication and Control-2011 (ICAC3). (*Springer-Verlag Berlin Heidelberg (Book Chapter)*), Fr. Agnel Ashram, Bandstand, Bandra. Mumbai. January 28-29, CCIS 125, pp. 56–61, 2011.

18. Raed I. Hamed. Fuzzy Reasoning Boolean Petri Net as Model of Gene Regulatory Networks. International Conference on Intelligent Systems and Data Processing. (ICISD 2011). **Universal Publishers Inc. USA** . G H Patel College of Engineering & Technology. Bakrol Road, Vallabh Vidyanagar – 388120, Gujarat, India. January 24 - 25, 2011.

19. Raed I. Hamed. Constructing Biological Networks Using Fuzzy Models: a Case Study of the Lac Operon Network. International Interdisciplinary Science Conference (I-ISC, 2011) On Bioinformatics: An interface between Computer Science and Biology. Engineering Faculty Auditorium, Jamia Millia Islamia (Central University), Jamia Nagar, New Delhi 110025, India. November 15-17, 2011.

20. Raed I. Hamed. Application of a Fuzzy Neural Network Combined With an Expert Petri Net System to Intrusion Detection System. ACIT'2012, the International Arab Conference on Information Technology. by Zarqa University , Jordan, December 10-13, 2012.

21. Raed I. Hamed. Evaluation of Breast Cancer Risk by Using Formal Reasoning Algorithm. Algorithm. The International Conference on Computer Science and Information Technology (CSIT 2013), Applied Science University, Amman, Jordan, March 27-28, 2013.

22. Raed I. Hamed. Intelligent method of Petri net formal computational modeling of biological networks. 5th Computer Science and Electronic Engineering Conference (CEEC), University of Essex, UK, (*IEEE Xplore*), pp. 162–167, 17-18 Sept, 2013.

Refereed Papers Published in National Conference Proceedings

1. Raed I. Hamed, and Dr. Rafat Parveen. **Categorization and Comparative Classical Petri Nets and High-Level Petri Nets.** Second National Conference on Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries (MATEIT-2008), Deen Dayal Upadhyaya College, University of Delhi, New Delhi September 26-28, 2008.

2. Raed I. Hamed, Dr. Rafat Parveen and Prof. Syed I. Ahson. **Petri Nets for Modeling and Simulation of Gene Regulatory Networks.** UGC National Conference on Bioinformatics and Computational Technologies (BioCT09), Dep. Of Com. Sci. and Eng., Jai narain Vyas University, Jodhpur, 21-22 March 2009.

3. Raed I. Hamed, and Dr. Rafat Parveen. **Intuitive Modeling of Biological Processes with Fuzzy Petri Net and Fuzzy Logic.** Third National Conference on Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries (MATEIT-2010), Deen Dayal Upadhyaya College, University of Delhi, New Delhi, January 30-31, 2010.

4. Raed I. Hamed. Designing a Fuzzy Model of Biological Network Interactions using Petri Nets Theory. National Conference on Modern Trends in Computer Sciences and Information Technology. College of Science and Engineering, Jhansi-284001, U.P., India. 30-31, October 2010.

5. Raed I Hamed. Fuzzy Reasoning System as a Model of Biological Processes. Third National Conference on Next Generation Computing & Information Systems. (NGCIS 2010). Model Institute of Engineering and Technology, Camp Office: B.C. Road, Jammu – 180001, India. December 18-19, 2010.

6. Raed I. Hamed. Fuzzy System Method in Modeling Biological Processes of GRNs and Analyzing Protein. National Conference on Emerging Trends in Soft Computing (NCETSC11). Department Of Computer Science, Nowrosjee Wadia College, Pune 411 001, India, 2-3, February 2011.

7. Raed I. Hamed. Intuitive Models Based Architecture for Formal Modeling of Mammalian circadian Networks. National Conference on Sober scientific research to build Iraq. Department of Computer Science, Al-Maaref University College, Iraq, 10-11, March 2012.

8. Raed I. Hamed. The Mechanism of Monitoring and Tracing of Healthcare Systems. Second National Conference on Information Technology. College of Computer University of Anbar, Iraq, 19-20, March 2012.



Communicated in Peer Reviewed International Journals

1. Raed I. Hamed. An Estimate Beacons Interval for Vehicular Ad Hoc Networks for Self-Driving and Semi Self-Driving Vehicles. University of Essex, UK, 2015.

2. Raed I. Hamed. An intelligent Method Based on Adaptive Fuzzy PNs for motor speed control. Ryerson University, Toronto, Canada, 2014.