

Academic Curriculum Vitae



Personal Information:

Full Name: Rasber Dhahir Rashid

Academic Title: Assistant Professor

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Education:

- July 2010 – Feb. 2016 (UK): PhD in Computer Science (Authentication and Image Security).
 - The University of Buckingham
 - School of Science
 - Applied computing department
- July 2004 – March 2006 (Iraq): M.Sc. in Computer Science (Image Security).
 - University of Koya
 - College of Information Technology
 - Computer Science Department
- October 1999 – July 2003 (Iraq): B.Sc. in Computer Science
 - University of Salahaddin
 - College of Education
 - Computer Science Department

Employment:

- July 2010 – Feb. 2016: Ph.D. position at The University of Buckingham (United Kingdom)
 - Thesis title: Robust Steganographic Techniques for Secure Biometric-based Remote Authentication.
 - Environments: MATLAB.
 - Writing scientific documents in English.
 - Contributions:
 - Steganography concepts based schemes developed for transferring biometric features securely for the purpose of remote authentication.
 - Develop higher invisible embedding schemes aims to reduce number of features represent a secret biometric image without affecting the recognition accuracy.
 - Develop new embedding schemes that more robust against target steganalysis tools.

- Develop novel embedding schemes that differentiate between embedding biometric data and any other secret messages (text, image... etc.) based on finding similar patterns between secret message patterns and cover image patterns.
- Move the steganography aspect from being used in laboratories to the real world applications such as law enforcement, forensics, and counter terrorism.
- 15, September 2020 – till now: Salahaddin University (Kurdistan):
 - Instructor at Computer Science and IT department / College of Science:
 - Given courses:
 - Biometric Technology and Applications (B.Sc.).
 - Advanced Information Security (Higher Diploma)
 - Advanced Security (MSc. Students)
 - Machine Learning (MSc. Students)
 - Supervising B.Sc. graduation projects.
 - Supervising M.Sc. student thesis
- March 2006 – 14, September 2020: KOYA University (Kurdistan):
 - Instructor at software engineering department:
 - Given courses:
 - C programming, Object Oriented Programming in C++, data structures in C++, computer networking, Data Security, Computer Graphics, Logic circuit design, Probability and Statistics, Numerical Analysis, image processing, and Computer Applications.
 - Supervising B.Sc. graduation projects.
 - Taking Number of Administration Positions
 - October 2008 – November 2009: Assistant Dean of College of Engineering.
 - October 2006 – September 2008: Head of Software Engineering Department.
 - April 2006 – September 2006: Assistant Dean of College of Information Technology.
- September 2014 – till July 2022: Byte None-Governmental Institute
 - Academic Dean (Scientific Supervisor)
 - Given Subjects:
 - Information and Communication Technology (ICT).
 - Internet Technology.
 - Computer networking (CCNA1 and CCNA2).
- September 2016 – Feb. 2018 : Cihan university (Erbil - Kurdistan)
 - Instructor at Computer Science Department (Part time).
 - Giving courses:
 - Computer Graphics (Morning and Evening study)
 - Supervising B.Sc. graduation project.
- September 2016 – Feb. 2018: Haibat Sultan Institute (Koya – Erbil – Kurdistan)
 - Instructor at Business and Information Technology Department (Part time).
 - Giving courses: Database and Information Technology
 - Supervising Diploma graduation project.
- September 2017 – Feb. 2018: Knowledge University (Erbil – Kurdistan)
 - Instructor at Computer Science Department (Part time).
 - Giving courses:
 - Digital Image Processing

- Supervising B.Sc. graduation project.
- September 2006 – July 2007 : Shaqlawa Institute
 - Teaching at Computer Science Department.
 - Given computer networking subject.
 - Supervising diploma graduation projects.
- September 2005 – July 2006 : Sulaimanyah University
 - Teaching at College of Science / Computer Science Department.
 - Given Data Structure subject.
- May 2005 – March 2006, KOYA university (Kurdistan):
 - Assistant researcher at the software engineering department.
- October 2003 – December 2004, Salahaddin university (Kurdistan):
 - Assistant researcher at the computer Science Department.

Qualifications

- Programming: C, C++, MATLAB, HTML.
- Operating systems: Windows.
- Computer networking: holding Cisco Certified Network Administrator certificate (CCNA).
- Other: Microsoft Office.

Research and publications

- 1- **Rasber D. Rashid , Harin Sellahewa and Sabah A. Jassim,**” Biometric feature embedding using robust steganography technique “, *Proc. SPIE* 8755, Mobile Multimedia/Image Processing, Security, and Applications, Baltimore/USA,(May , 2013).

<http://spie.org/Publications/Proceedings/Paper/10.1117/12.2018910>

- 2- **Rasber D. Rashid , Sabah A. Jassim and Harin Sellahewa,**” LBP based on Multi Wavelet Sub-bands Feature Extraction used for Face Recognition “,IEEE International Workshop on Machine Learning for Signal Processing (MLSP) , September 22- 25, 2013 Southampton, United Kingdom.

http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6661911&filter%3DAND%28p_IS_Number%3A6661888%29

- 3- **Rasber D. Rashid , Sabah A. Jassim and Harin Sellahewa,** “Covert Exchange of Face Biometric Data using Steganography “, Fifth Computer Science and Electronic Engineering Conference (CEEC 2013), September 17-18, 2013, University of Essex, Colchester, United Kingdom.

http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6659460&punumber%3D6646389%26filter%3DAND%28p_IS_Number%3A6659431%29%26pageNumber%3D2

4- **Hisham Al-Assam, Rasber Rashid, and Sabah Jassim**, “Combining Steganography and Biometric Cryptosystems for Secure Mutual Authentication and Key Exchange”, The 8th International Conference for Internet Technology and Secured Transactions (ICITST-2013), December 9-12, 2013, London, UK

http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6750224&refinements%3D4230908772%26filter%3DAND%28p_IS_Number%3A6750143%29

5- **Aras T. Asaad, Rasber Dh. Rashid, Sabah A. Jassim**, " Topological image texture analysis for quality assessment", SPIE Proceedings Volume 10221, Mobile Multimedia/Image Processing, Security, and Applications, Anaheim, California, United States, April 09, 2017.

<http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=2627639>

6- **Rasber Dh. Rashid, Aras T. Asaad, Sabah A. Jassim**, " Topological data analysis as image steganalysis technique", SPIE Proceedings Volume 10668, Mobile Multimedia/Image Processing, Security, and Applications 2018, Orlando, Florida, United States, April 15-19, 2018.

<https://doi.org/10.1117/12.2309767>

7- **Rasber Dh. Rashid, Taban F. MAjeed**, " Edge Based Image Steganography: Problems and Solution ", *2019 International Conference on Communications, Signal Processing, and their Applications (ICCSPA)*, Sharjah, United Arab Emirates, 2019, pp. 1-5. <https://ieeexplore.ieee.org/abstract/document/8713712>

8- **Rasber Dh. Rashid, Ladeh S. Abdulrahman, Taban F. MAjeed**, " Multi-Edge Concept used for Image Steganography", *Innovaciencia*. 2019; 7 (1): 1-12. <http://dx.doi.org/10.15649/2346075X.517>

9- **Rasber Dh. Rashid**, " Cover image selection for embedding based on different criteria", *Proc. SPIE 11399, Mobile Multimedia/Image Processing, Security, and Applications 2020, 113990V (21 April 2020)*; <https://doi.org/10.1117/12.2560720>

10- S. Salih, H. Abdulla, Z. Ahmed, N. Surameery, and **R. Rashid**, “Modified AlexNet Convolution Neural Network For Covid-19 Detection Using Chest X-ray Images”, *Kurdistan Journal of Applied Research*, vol. 5, no. 3, pp. 119-130, Jun. 2020. <http://kjar.spu.edu.iq/index.php/kjar/article/view/523>

11- Taban Majeed, **Rasber Rashid**, Dashti Ali, and Aras Asaad, “Issues associated with deploying CNN transfer learning to detect COVID-19 from chest X-rays”, *Physical and Engineering Sciences in Medicine Journal*, October, 2020. <https://link.springer.com/article/10.1007/s13246-020-00934-8>

12- H. Abdulla, Z. Ahmed, N. Surameery, **R. Rashid**, and S. Salih, “ SAARSNet: A Deep Neural Network for COVID-19 Cases Diagnosis”, *IEEE Third International Conference on Advanced Science and Engineering (ICOASE2020)*, University of Zakho, Duhok Polytechnic University, Kurdistan Region, Iraq. <https://ieeexplore.ieee.org/abstract/document/9436536>

13- Z. Ahmed, N. Surameery, **R. Rashid**, S. Salih, and H. Abdulla, “ CNN-based Transfer Learning for Covid-19 Diagnosis”, IEEE 2021 International Conference on Information Technology (ICIT), Amman, Jordan. <https://ieeexplore.ieee.org/abstract/document/9491126> .

14- Aram Ismael, Rahib Abiyev, Mohammed Kamal Majeed, **Rasber Dh Rashid**, Mohammed Latif Mahmood, Aram Hussein Abubaker, “ Detection of Epileptic Seizure on EEG Signals using EMD and ICEEMDAN “ , Design Engineering Journal, Pages: 11458 – 11486, Issue: 8, 2021.

15- Aras Asaad, Dashti Ali, Taban Majeed, **Rasber Rashid**, “ Persistent homology for breast tumor classification using mammogram scans” , Mathematics Journal, Volume 10, issue 21, pages 4039(1-11), 31/10/2022 . <https://www.mdpi.com/2227-7390/10/21/4039>

16- Arezu Rezgar Hussein, **Rasber Dhahir Rashid**, “ KurdFace Morph Dataset Creation Using OpenCV ” , Science Journal of University of Zakho, Volume 10, issue 4, pages 258-267, 14/12/2022. <https://www.sjuoz.uoz.edu.krd/index.php/sjuoz/article/view/943>

Professional Social Network Accounts:

- Google Scholar : <https://scholar.google.com/citations?user=327JO9cAAAAJ&hl=en>
- ReserchGate : <https://www.researchgate.net/profile/Rasber-Rashid>
- LinkedIn : <https://www.linkedin.com/in/rasber-rashid-3b022269/>
- ORCID : <https://orcid.org/0000-0002-5531-087X>