

# Curriculum Vitae

**Dr. Mohamed Uvaze Ahamed Ayoobkhan, B.E., M.E., PhD.**

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**2. Date of Birth:** 30-October-1988

**3. Marital Status:** Single

## **4. Education:**

*Apr 2014 – March 2018* **Multimedia University**  
Doctor of Philosophy, Information Technology  
Cyberjaya, Selangor, Malaysia (**Won Best PhD Thesis Award 2018**)

*Jun 2010 – May 2012* **Anna University, Chennai**  
Master of Engineering, Computer Science and Engineering, (**First Class**)  
Chennai, Tamil Nadu, India

*Aug 2006 – May 2010* **Anna University, Chennai**  
Bachelor of Engineering, Computer Science and Engineering, (**First Class**)  
Chennai, Tamil Nadu, India

## **5. Teaching / Research Experience**

*Sep 2021 - Present* **Assistant Professor / Senior Lecturer**  
Department of Computing,  
Westminster International University in Tashkent, Uzbekistan.

*Oct 2018 - Aug 2021* **Assistant Professor**  
Department of Information Technology,  
Qala University College, Erbil, Kurdistan, Iraq.  
**Assistant Professor (Part-time)**  
Department of Computer Science and Engineering,  
Cihan University, Kurdistan, Iraq.

*Feb 2018 – Sep 2018* **Assistant Professor**  
Department of Computer Science and Engineering,  
School of Engineering and Technology, Jain University, Bangalore, India

- Oct 2017 – Feb 2018*   **Consultant (Freelancer)**  
 Retinal Automated Screening System (RASS) for Eye Disease  
 PRGS Research Grant No: MMUE/160064.05  
 Multimedia University, Faculty of Computing and Informatics (FCI)  
 Cyberjaya, Selangor, Malaysia
- Apr 2014 – Feb 2018*   **Graduate Research Assistant/Tutor**  
 Faculty of Computing and Informatics, Multimedia University,  
 Cyberjaya, Selangor, Malaysia
- Jun 2012 – Mar 2014*   **Assistant Professor**  
 Department of Information Technology, Sri Ramakrishna Engineering  
 College,  
 Coimbatore, Tamil Nadu, India

## 6. Description of PhD Thesis

Title: “Image Compression and Retrieval using Prediction and Wavelet - based Techniques”

My PhD research project focuses on the image retrieval in a compressed domain. A new content-based image retrieval technique using prediction error concept called CBIR-PE system has been developed. The proposed system makes use of a new clustering scheme employing wavelet based contourlet transform and fuzzy c-means clustering for improving the performance of the system. A multilayer neural network predictor has been employed for predicting the pixel values using the neighboring pixels.

The proposed method has the advantages of using lower bandwidth for image transmission and reduced storage space for image storage since only the error values instead of the actual pixel values are used for transmission and storage. In addition, it also has the advantage of data security since the original images cannot be reconstructed without the predictor parameters. Experimental results with medical and other image databases have confirmed the superiority of the proposed method over the other existing methods.

**(Won Best PhD Thesis Award 2018, Faculty of Computing and Informatics, Multimedia University, Malaysia)**

## 7. Intellectual Property

- December 2017* Copyright titled “Automated Screening system for diabetic retinopathy disease”. [MyIPO: LY2017005645].
- Nov 2016* Copyright titled “Lossy Image Compression based on Vector Quantization using Artificial Bee Colony and Genetic Algorithms” [MyIPO: LY2017000024].

## 8. Awards & Grants

- Dec 2019* Best Paper Award in the technical session - Computational Intelligence for Imaging and Application at 2019 International Conference on Computational Intelligence and Knowledge Economy, Dubai.
- Sep 2018* Best PhD Thesis Award for Doctor of Philosophy (IT), Multimedia University, Malaysia
- May 2017* Recognized as one of the Outstanding reviewers for Elsevier Journals, Amsterdam, Netherlands
- Jan 2017* Best Paper Award at IWAIT 2017 Conference, Penang, Malaysia.
- Nov 2016* Recognized reviewer for Elsevier Journals, Amsterdam, Netherlands

## 9. Journal Publications

*(For details regarding the number of citations etc ,please refer to the google scholar link given below:*

<https://scholar.google.com/citations?user=qKsJdzwAAAAJ&hl=en&authuser=1> )

- i . Mohamed Uvaze Ahamed, C. Eswaran, R. Kannan, "Lossy Image Compression based-on Prediction Error and Vector Quantisation", EURASIP Journal on Image and Video Processing, Vol. 2017, No. 1, pp. 35, 2017. (Springer Publisher) **(WOS/SCOPUS – Q2) (IF – 2.455)**
- ii . Mohamed Uvaze Ahamed, C. Eswaran, R. Kannan, "CBIR System Based On Prediction Errors", Journal of Information Science and Engineering, Vol. 33, No. 2, 2017. (Academic Sinica Publisher) **(WOS/SCOPUS – Q3) (IF – 0.468)**
- iii . Mohamed Uvaze Ahamed, C. Eswaran, R. Kannan, "Feed- Forward Neural Network based Predictive Image Coding for Medical Image Compression", Arabian Journal for Science and Engineering, Vol. 43, No. 8, pp. 4239-4247, 2018. (Springer Publisher) **(WOS/SCOPUS – Q2) (IF – 1.092)**
- iv . Ahamed A. Mohamed Uvaze, Eswaran C, Kannan R, "Lossy Image Compression based on Vector Quantization using Artificial Bee Colony and Genetic Algorithms", Advanced Science Letters, Vol. 24, No. 02, 2018. **(SCOPUS – Q4) (SJR – 0.13)**
- v. Ahamed Ayoobkhan, "An Automated Grading System for Diabetic Retinopathy using Curvelet Transform and Hierarchical Classification", International Journal of Engineering & Technology, Vol. 7, No. 02.15, 2018. **(SCOPUS – Q4) (SJR – 0.1)**
- vi. D.Yuvaraj, M.Sivaram, A. Mohamed Uvaze Ahamed, S.Nageswari, "Nature Inspired Evolutionary Algorithm (ACO) for Efficient Detection of DDoS Attacks on Networks", International Journal of Advanced Trends in Computer Science and Engineering, Vol.8, No. 1.4, pp. 44-50, 2019. **(SCOPUS SJR – 0.1)**
- vii . Bilal Hikmat Rasheed, M.Sivaram, D.Yuvaraj, A. Mohamed Uvaze Ahamed, "An Improved Novel ANN Model for Detection Of DDoS Attacks On Networks", International Journal of Advanced Trends in Computer Science and Engineering, Vol.8, No. 1.4, pp. 9-16, 2019. **(SCOPUS SJR – 0.1)**
- viii . R.Venkatesan, V.Manikandan, D.Yuvaraj, viii .A. Mohamed Uvaze Ahamed, "Predicting students' Academic Drop Out and Failures Using Data Mining Techniques", International Journal of Advanced Science and Technology, Vol. 28, No. 2, pp. 182-193, 2019. **(SCOPUS SJR – 0.1)**
- ix . G.Sakthi, D.Yuvaraj, M.Sivaram, A. Mohamed Uvaze Ahamed, "Evaluation and Customized Support of Dynamic Query form through web search", International Journal of Advanced Science and Technology, Vol. 28, No. 2, pp. 170-181, 2019. **(SCOPUS SJR – 0.1)**
- x . K.Geetha, D.Yuvaraj, M.Sivaram, A. Mohamed Uvaze Ahamed, "A novel Shape Feature Extraction technique for Content Based Image Retrieval (CBIR) Systems", International Journal of Advanced Science and Technology, Vol. 28, No. 2, pp. 158-169, 2019. **(SCOPUS SJR – 0.1)**

## 10. Book Chapter Publications

1. Ayoobkhan, Mohamed Uvaze Ahamed, D. Yuvaraj, A. Jayanthiladevi, Balamurugan Easwaran, and R. ThamaraiSelvi. "Smart Connected Digital Products and IoT Platform With the Digital Twin." In Research Advancements in Smart Technology, Optimization, and Renewable Energy, pp. 330-350. IGI Global, 2021.11.

## 11. International Conference Proceedings

1. Mohamed Uvaze Ahamed. A, P.Thangam: Particle Swarm Optimization for Segmentation in Bone Age Assessment. Proceedings of IEEE International Conference on Computational Intelligence and Computing Research, 2012, Kanyakumari, India.
2. Mohamed Uvaze Ahamed Ayoobkhan, Eswaran. C, Kannan. R: Predictive Medical Image Compression using Neural Networks with Gravitational Search and Particle Swarm Algorithms. International Workshop on Advanced Image Technology, 2017, Penang, Malaysia; (BEST PAPER AWARD)
3. A. Mohamed Uvaze Ahamed, C. Eswaran, R. Kannan, B. Saravana Balaji, "Prediction-based Lossless Image Compression", In International Conference on ISMAC on Computational Vision and Bio-Engineering, pp. 1749-1761. Springer, Cham, 2018. (SCOPUS – Q3) (SJR – 0.17)
4. M. Sivaram, Mohamed Uvaze Ahamed Ayoobkhan, D. Yuvaraj: Biometric Security and Performance Metrics: FAR, FER, CER, FRR. IEEE International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), 2019, Dubai; (SCOPUS)
5. Sathya Bama Krishna, Mohamed Uvaze Ahamed Ayoobkhan, B. Bharathi: Hybrid Method for Moving Object Exploration in Video Surveillance. IEEE International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), 2019, Dubai; (SCOPUS)
6. M. Deva Brinda, Mohamed Uvaze Ahamed Ayoobkhan, R. Sunder: Earth Voltage Monitoring and Alert System for Indian ATM System. IEEE International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), 2019, Dubai; (BEST PAPER AWARD) (SCOPUS)
7. A. Mohamed Uvaze Ahamed, D. Yuvaraj, M. Sivaram and S. Nageswari, "An Efficient Lion Optimization Based Cluster Formation and Energy Management in WSN Based IoT", in International Conference on Intelligent Computing & Optimization, Springer, Cham, pp. 1-10, 2019. (SCOPUS SJR – 0.18)
8. Flaih, Laith R., Shaimaa Awadh Baha al\_Deen, and Mohamed Uvaze Ahamed Ayoobkhan. "Analysis of Surface Quality Measurement With Classification Approach." In Journal of Physics: Conference Series, vol. 1712, no. 1, p. 012027. IOP Publishing, 2020. (SCOPUS)
9. Yuvaraj, D., A. Mohamed Uvaze Ahamed, and M. Sivaram. "A study on the role of natural language processing in the healthcare sector." Materials Today: Proceedings (2021). (SCOPUS)

## 12. Skills & Activities

*Journal Guest Editor* "The Open Bioinformatics Journal" [ISSN: 1875-0362 — Volume 13, 2020] [Scopus Indexing]  
"Advanced Science, Engineering and Medicine" [ISSN: 2164-6627 (print); EISSN: 2164-6635 (online)]

*Journal Reviewer* "Cluster Computing"  
"Applied Nanoscience"  
"Wireless Personal Communications"  
"Pattern Recognition Letters"  
"Journal of Visual Communication and Image Representation"  
"International Journal of Biomedical Engineering and Technology"  
"Journal of Supercomputing"  
"International Journal of Cloud Computing (IJCC)"  
"World Review of Science Technology and Sustainable Development"  
"International Journal of Enterprise Network Management (IJENM)"

<i>Conference Reviewer</i>	<p>International Symposium on Computational Intelligence &amp; Applications ISCIA 2017, Malacca, Malaysia.</p> <p>9th International Conference on Advances in Science, Engineering, Technology and Waste Management ASETWM-17, Johannesburg, South Africa.</p>
<i>Resource Person</i>	<p>Keynote Speaker for International Conference on Emerging Trends in Signals, Systems &amp; Informatics (ICETSSI 2021) on the topic "Artificial Intelligence for future Healthcare Service" on 27th May 2021 at the Nehru College of Engineering and Research Centre, Pampady, Kerala, India.</p> <p>Guest Speaker for One day Technical Seminar on "Recognition with Deep Learning – an AI approach" on 20<sup>th</sup> August 2019 at the Department of Computer Science and Engineering, Jansons Institute of Technology, Coimbatore, India.</p> <p>Nominated as a Director for an International Conference track on "Artificial Intelligence" conducted by Cihan University-Erbil, Kurdistan Region held in May 2019.</p> <p>Invited as Chief guest and Resource person for: CSI student branch inauguration and workshop in "Angular JS" on 13th March 2019 at Department of CSE, Francis Xavier Engineering College, Tirunelveli, India</p> <p>Invited as Resource person for the Faculty Development Program in "Current trends in Artificial Intelligence" on 26th and 28th June 2018 at Hotel Nandhana, Kammanahalli, Bangalore, India</p> <p>Invited as Keynote speaker for International Conference on Emerging Trends in Engineering and Technology (ICETET'2018) on the topic "Shallow approach on Deep Learning" on 28th March 2018 at the CAPE Institute of Technology, Kanyakumari, India.</p> <p>Guest Lecture on "Making Machine Understand Beauty of Pictures" on 14th July 2017 at Department of ECE, Kalasalingam University, Krishnankoil, India.</p> <p>Resource person for ISTE Sponsored International Seminar in "Deep Learning versus Conventional Neural Network in Image processing" on 05th January 2017 at the Department of Electronics and Communication Engineering , SNS College of Technology, Coimbatore, India.</p>
<i>Project Supervisor</i>	Supervised more than 20 UG / PG projects on their final year project (India, Malaysia and Iraq)
<i>Skills</i>	<p>MATLAB, C, C++, Java, SQL, MySQL, PHP</p> <p>Data Manipulation Tools</p>
<i>Languages</i>	English (Professional), Tamil (Native), Hindi, French (Basic).
<i>Scientific Memberships</i>	International Association of Engineers [IAENG], Hong Kong - [Member ID: 184103].

### 13. References

Dr. Chikkannan Eswaran  
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