Department of Electronics and Communication Engineering

Name	***Dr. K.A.Shahul Hameed***
Date of Birth	18.01.1975
Unique ID	*1-3584391171*
Educational Qualifications	B.E (ECE), M.E. (COMM. SYS), Ph.D.
Designation	PROFESSOR
Email ID	ashkars@sethu.ac.in
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Experience	Industry	Teaching	Others	Total
	-	26 years	-	26 years

Date of Joining the Institution	16.06.2017
Area of Specialization	***Biomedical Image Analysis***
Courses taught	Medical Imaging, Analog and Digital Communication, Signals and Systems, Digital Signal Processing, Linear Control Engineering, Wireless Communication, Modulation and Coding Theory Principles of Artificial Intelligence, Machine Learning and Deep Learning.
Research Focus	***Biomedical Image Analysis, Pattern Recognition,***
Research guidance (Number of Scholars)	***6***
Subject Competency	Signals and Systems, Analog and Digital Communication, Biomedical Image Processing

No. of papers published	National Journals	International Journals	Conferences
	1	***12***	***5***

PG Specialization	M.E. (Communication Systems)
Ph.D. Specialization	Information and Communication Engineering
Projects Carried out	***-***
Patents (Filed & Granted)	***3***
Technology Transfer	***-***
No. of Books published with details	-

Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	Electronics and Communication Engg.	Madurai Kamaraj University, Madurai.	1996
PG	M.E.	Communication Systems	Madurai Kamaraj University, Madurai.	1998
Ph.D.	Ph.D.	Biomedical Image Analysis	Anna University, Chennai.	2018

Details of Journal Publication:

1. K.A.Shahul Hameed, A.Banumathi, G.Ulaganathan., "**Performance Evaluation of Maximal Separation Techniques in Immunohistochemical Scoring of Tissue images**," Journal of Micron, Elsevier, IF-1.988 Vol. 79, pp. 29-35, December 2015, doi:10.1016/j.micron.2015.07.013.

2. K.A.Shahul Hameed, A.Banumathi, G.Ulaganathan., "**P53Immunostained Cell Nuclei Segmentation in Tissue Images of Oral Squamous Cell Carcinoma**," Accepted for publication in Journal of Signal, Image and Video Processing, Vol. 11, pp. 363-370, 2017, Springer, IF-0.872, doi:10.1007/s11760-016-0953-y.

3. K.A.Shahul Hameed, A.Banumathi, G.Ulaganathan., "**Cell Nuclei Classification and Immunohistochemical scoring of Oral Cancer Tissue Images: Machine-learning Approach**," Asian journal of research in social sciences and humanities, vol. 6, no. 10, pp. 732-747, October 2016.

4. K.A.ShahulHameed, A.Banumathi, G.Ulaganathan., "**A Simple Method of Immunostained Tissue Scoring Based on Maximal Separation Technique**," under review, Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization, Taylor & Francis.

5. K.A.Shahul Hameed, A.Banumathi, G.Ulaganathan., et.al., "**A Clinicopathological Study of Various Oral Cancer Diagnostic Techniques**," Journal of Pharmacy and Bioallied Sciences, Kluwer-Medknow, Vol.9.,no.1,pp. s4-s10, November 2017.

6. K.A.Shahul Hameed, et.al, "**A Simple multi-feature based stereoscopic medical image retrieval systems**", Polish Journal of Medical Physics and Engineering, Vol. 25, no.2, pp. 127-130, 2019.

7. K.A.Shahul Hameed., et.al., "**Immunohistochemical analysis of oral cancer images using support vector machine**", Measurement, Elsevier, vol. 173, pp. 1-7, 2021.

8. G Jeyalakshmi, K.A Shahul Hameed," **Advanced Approaches to Brain Tumor Classification and Diagnosis**",International Journal of Electronics and Communication Engineering, vol. 9, iss.1, pp. 6-9, SSRG, 2022.

9. Uma Maheswari Pandyan, Banumathi Arumugam, Ulaganathan Gurunathan, Shahul Hameed KA," **Automatic localization of inferior alveolar nerve canal in panoramic dental images**", Signal, Image and Video Processing, Springer, vol. 16, pp. 1398-1397, 2022.

10. A Shakin Banu, K A Shahul Hameed, P Vasuki," **A Hybrid Deep Learning based Automatic Target Detection and Recognition of Military Vehicles in Synthetic Aperture Radar Images**", International journal of industrial engineering-theory applications and practice, Vol. 31, iss. 6, pp.1206-1218., 2024.

11. A. Shakin Banu, K. A. Shahul Hameed, "**Automatic target detection and recognition of military vehicles in synthetic aperture radar images is fostered by optimizing VGG-googLeNet with the giraffe kicking optimization**", Signal Image and Video Processing, Springer, vol. 18, pp. 6491-6502., 2024.

12. K.A.Shahul Hameed., R.Tamilselvi, K.Ranjana Shree, K.A.Shahul Hameed, M.PARISA Beham, "An IOT-Based Machine Learning System for Real-Time Stress Level Prediction Using Wearable Sensors", IJIRSET, Vol. 14, pp. 330-338., 2025.

13. K.A.Shahul Hameed, G.Jeyalakshmi, "**A Novel Densenet Framework for Brain Tumor Classification Enhanced by XgBoost and Fire Hawk Optimization**," Traitement du Signal, IIETA, Vol. 42, Iss. 3, pp. 1779-1788, June 2025.

Details of Conference attended:

International Conference

1. C. Swedheetha, K.A.Shahul Hameed, P. Naveen, "**A Review on Wearable Antennas**", 5th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N–23).
2. K.A.Shahul Hameed, A.Banumathi, G.Ulaganathan., "**Segmentation of Immunohistochemical Staining of Beta-catenin expression of Oral Cancer using Gabor Filter Technique**," Proc. IEEE International Conference on Advances in Engineering, Science and Management (ICAESM), pp. 429-434., India, 2012.
3. K.A.Shahul Hameed, S.Thangapandi, S. Durai Murugan, "**Performance Evaluation of Interleave Division Multiple Access**," Prco. ICAET 2011. India, 2011.

National Conference

1. K.A.Shahul Hameed, Aysha Nathiha. A, "**Segmentation of Immunohistochemical Staining of beta-catenin Expression of Oral Cancer Using EM Algorithm**," Proc. National Conference on RIST'13, India, pp. 47-52 April 2013.
2. K.A.Shahul Hameed, M.Subbulakshmi, K.Rajalakshmi, "**Logarithmic Quantization**

Index Modulation : A Perceptually Better way to Embed Data within a Cover Signal," Proc. National Conference on RTRIA 2010, India, Vol no 1 , pp. 33-38 Feb 2010.

3. K.A.Shahul Hameed, C.Kanmani Pappa, K.Rajalakshmi, "**Visual Perception Model with an Application to Hi-fidelity Image Annotation**," Proc. National Conference on RTRIA 2010, India, Vol no 2, pp. 181-186 Feb 2010.

Details of Book Chapter and Books Published: Nil

Details of Patents Filed and Granted:

1. International Design Patent "**A VIBRATION BASED HEARING AID DEVICE**", Application no: 2020104143 – Granted
2. International Design Patent, "**MODULAR IOT-BASED SENSOR HUB FOR REAL-TIME ENVIRONMENTAL MONITORING**", Ap.No.: 434929-001, Granted
3. International Design Patent, "**WEARABLE COMMUNICATION DEVICE WITH GESTURE-CONTROLLED INTERFACE**", Ap.No.: 434928-001, Granted

Expert Lecture Delivered:

1. Delivered a lecture on FDP on "Signals and Systems – EC6303" held at Sethu Institute of Technology, Pulloor, Kariapatti.
2. Delivered a webinar on " Python and Data Science" organized by Department of CSE, JP College of Engineering, Tenkasi on 27.01.2022.
3. Delivered a Guest lecture on "Data Science Using Python", Organized by Department of CSE, Tamilnadu Government Polytechnique College, Madurai, 09.04.2025.

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