

## Detailed CV



Name: Dr. A M Khan

Educational Qualification: M.Sc. Ph.D. DCA

Designation: Professor

Address for Correspondence: Department of Studies in Electronics  
Mangalore University  
Mangalagangothri. 574 199

E-mail: [asifabc@gmail.com](mailto:asifabc@gmail.com), [amkhan@mangaloreuniversity.ac.in](mailto:amkhan@mangaloreuniversity.ac.in)

Phone: 09901752373

Research Areas: Biomedical Image processing, Embedded system design, Image /  
Data processing, Algorithm development, IC fabrication  
Technology, Computer Networks..

Professional Teaching Experience: 26 years

Research Guidance (M.Phil. /Ph.D.): 01 / 10

Completed students' list (with hyperlinks to their CV if available)

M.Phil. 1. Mr. Basavanth Manik – M. Phil.

Ph.D.

1. Dr. Jose Alex Mathew
2. Dr. Mohammed mahfooz Shaikh
3. Dr. C Ramachandra
4. Dr. Nagendra
5. Dr. Satish Kulkarni
6. Dr. Ravi. S
7. Dr. Beeresha R S
8. Mr. Rakesh Prabhu ( Submitted and waiting for Viva)
9. Mr. Mohammed Zaheer ( Submitted and waiting for Viva)
10. Mrs. Chandana B R ( Submitted )

Ongoing Registered Students' list

1. Mrs. Vijayalaxmi B
2. Mrs. Pratibha Nair
3. Mr. Narayana Prakash

4. Mr. Prahas Amin
5. Mr. Anantha Keshava

## Research Projects

Completed: 02

1. “Design and Development of a PC based Control System for Microtron” – Rs. 9.86 lakhs funded by DAE-BRNS, 2011.
2. “Algorithms for Biomedical Image Analysis” – Rs. 20 Lakhs funded by DST, 2012-2014.

## Professional Collaboration

National:

CMTI, Bangalore on VLSI technology.

NAL, Bangalore- Designed a FPGA based optical switch for parallel computers (flosolver series)

ISRO-MCF Hassan- Developed a real-time image acquisition and image correction system for the correction of satellite images.

ISRO-ISTRAC, Bangalore- Developed New method of compressing large amount of satellite data (SVTD Compressor)

K S Hegde Medical Academy Hospital, Mangalore – Finding Abnormalities in MRI Images of Brain (J&K Algorithm)

Yenepoya Hospital, Mangalore – Study of Liver Images for finding Tumor and other abnormalities.

## Research Journal Publications

International

1. Prakash S Narayana and A M Khan “MRI image compression using multiple wavelets at different levels of discrete wavelets transform”J. *Phys.: Conf. Ser.* 1427 012002,doi: <https://doi.org/10.1088/1742-6596/1427/1/012002>(**Impact Factor-0.54**).
2. Prathibha K Nair, Ravi S, A M Khan, “Comparative analysis of Wavelet Transform for Medical Image Denoising,” ISSN No.: 2581-9380 TOJSR, 2019, 2 (1), 10-15.
3. Beeresha .R .S, A. M. Khan, Manjunath Reddy H. V, “Design and Optimization of Square SPI for Ultra-Wide Band Applications,” International Journal of Modern Electronics and Communication Engineering (IJMECE), pp. 31-36, Vol.no-6, Issue.no-5, September 2018.

4. Beeresha .R .S, A. M. Khan, Manjunath Reddy H. V, "Design and EM-Simulation of MIM Capacitor," IEEE Xplore, pp. 1644-1649, ISBN: 978-1-5386-1887-5/17, June 2018.
5. Beeresha .R .S, A. M. Khan, Manjunath Reddy H. V, "The Design and EM-Simulation of Square Spiral Inductor Using Simple Equations," Science Direct: Materials Today, pp.10875-10882, June 2018.
6. Rakesh Prabhu, Dr. A. M. Khan, 'An Approach on Morphology Image Processing" pp. 644- International Journal of Electronics, Electrical and Computational System (IJECS) ISSN 2348-117X Volume 7, Issue 4 April 2018.
7. Chandana B R, Dr A.M.Khan, "Evaluation of Heuristic Algorithm Performance in Dynamic Scenarios for Multicasting in Optical Networks," pp 73-82., Grenze digital library ISBN 978- 81- 936117-5-3, RATME 2018.
8. Ravi S, A. M. Khan, "Global Thresholding Techniques to Classify Dead Cells in Diffusion Weighted Magnetic Resonant Images", International Journal of Advance Research in Science and Engineering, Vol. 06, Issue 10, Oct. 2017 pp 1337-1340.
9. Mohammed Zaheer, A.M.Khan "FPGA Design Implenetation on DDR and B-RAM for String Comparison International Journal of Advance Research in Science and Engineering, Vol. 06, Issue 08, August. 2017
10. Rakesh Prabhu, A. M. Khan, "Effective Liver Image Segmentation from Abdomen Computed Tomography Images Using K-Mean Technique". International Journal of Electronics, Electrical and Computational System (IJECS) ISSN 2348-117X Volume 6, Issue 9 September 2017
11. Rakesh Prabhu, A. M. Khan, A Study of Bio-medical Image Registration Algorithms, International Journal of Engineering Technology Science and Research (IJETSR) ISSN 2394 – 3386 Volume 4, Issue 9 September 2017.
12. Beeresha .R .S, **A. M. Khan**, Manjunath Reddy H. V, "Optimization of Spiral Inductor With Different Inner Diameters," International Journal of Research in Engineering and Technology (IJRET), Volume: 05 Special Issue; 04, May-2016.
13. Ravi S and **A. M. Khan** "Segmentation of Stroke Regions from DWI and ADC Sequences using a Modified Watershed Method" International Journal of Research in Engineering and Technology (IJRET), Volume: 04 Special Issue: 12, Oct-2015
14. Beeresha .R .S, **A. M. Khan**, Manjunath Reddy H. V, Ravi .S, "Embedded Microstrip line to Stripline Vertical Transition Using LTCC technique," International Journal of Research in Engineering and Technology (IJRET), Volume: 04 Special Issue: 12, Oct-2015
15. Mohammed Zaheer and **A. M. Khan** "Development of Softcore Processor" International Journal of Research in Engineering and Technology (IJRET), Volume: 04 Special Issue: 12, , Oct-2015

16. Beeresha R.S, **A. M. Khan**, Manjunath Reddy H.V, "Simulation Study on Insertion and Return Loss of Planar Transmission Lines for Different Dielectric Substrates," Global Journal of Trends in Engineering (GJTE)-Vol (2)-Issue (4) April-2015.
17. Ravi S and **A M Khan**, A Study on Different Noise Filters to Pre-process the Magnetic Resonant Biomedical Images for Segmentation. pp. 51-56. Research Journal of Recent Sciences Vol. 4, ISSN: 2277-2502, February 2015.
18. B.R.Nagendra, **Dr. A. M.Khan**, Dr. N.K. Misra" Estimation of Upper Bound for Order of Filters used in Perfect Reconstruction Filter Banks", International Journal of electronics Communication and Computer Engineering (IJECCCE), Vol. 5, Issue-4, July 2014.
19. Ravi S and **A M Khan**, Bio-Medical Image Segmentation Using Marker Controlled Watershed Algorithm: A Case Study, International Journal of Research in Engineering and Technology (IJRET) pp26-30 Vol:03 Special Issue 03,eISSN: 2319-1163 pISSN: 2321-7308 Vol: 03,Special Issue 03, May 2014.
20. Ravi S and **A M Khan**, "Improved Watershed Algorithm with Marker Controlled Technique for Biomedical MRI Images", International Journal of Recent Development in Engineering and Technology, pp.337-343,ISSN 2347 - 6435 (Online), Volume 2, Special Issue 3, 2014.
21. Dr Jose Alex Mathew, **Dr A M Khan** and Dr U C Niranjana, 'Structural Development of an Intelligent Diagnostic Imaging System, Proc. of International Conference on Biomedical Engineering and Assistive Technologies (BEATS-2014), University Institute of Engineering & Technology Panjab University, Chandigarh, February 2014.
22. Chandana B.R. and **A M Khan**, 'Restoration Methods in WDM Optical Networks – A Review' Proc. Of International Conference on Emerging Computation and Information Technologies, SIT, Tumkur, Pp 398-406, ISBN: 978-93-5107-176-1, November 2013.
23. **A M Khan** and C. Ramachandra, 'Mask Fabrication for Proto Type Product Development', International Journal of Engineering and Advanced Technology (IJEAT), **ISSN: 2249 – 8958**.
24. B.R. Nagendra, **A M Khan**, M Madeswaran, V Ramesh Naidu, S N Prakash, & Dr N K Misra, 'Design of Ingenious Randlet, Sinlet and Shocklets for Compression of Satellites Vibration Test Data', International Journal of Electronic Communication & Computer Engineering (IJECCCE), Vol 4, Issue 5, pp 1341-1348, ISSN: 2249-071X/2278-4209, September. 2013.
25. **A M Khan** and Ravi S, 'Image Segmentation Methods: A Comparative Study', International Journal of Soft Computing and Engineering (IJSCE), Vol 3, Issue 4, pp 84-92, ISSN: 2231-2307, September 2013.

26. Syeda Erfana Zohora, **Dr. A M Khan**, Dr. Nisar Hundewale, 'Electronic Nose's Application to Food Analysis Using Metal Oxide Sensors: A Review', International Journal Computer Technology and Engineering (IJCTE), ISSN No: 1793-8201, July 2013.
27. B R Nagendra, **A M Khan**, V Ramesh Naidu, S N Prakash, & Dr N K Misra, 'Characterization of Vibration test Data of Satellites', American Journal of Signal Processing (AJSP), Vol 3, No 2, pp 35-40, ISSN: 2165-9362/2165-9354, June 2013.
28. **A M Khan** and C Ramachandra, 'VLSI Circuit Edit for High Frequency Application, International Journal of Advances in Science & Technology (IJAST), Vol 6, No 6, pp 17-21, ISSN: 2229-5216, June 2013.
29. Mohammed Mahfooz Sheikh, **A M Khan** and U N Sinha, 'Bandwidth Requirements of Large Scale Computing Systems – A Case Study', International Journal of Computer Applications (IJCA), ISBN: 978-93-80746-57-8, June 2013.
30. **A. M. Khan** and C.Ramachandra 'Circuit Edit Technology for Submicron Structures in Semiconductor Devices', International Journal of Engineering and Advanced Technology (IJEAT), Vol 2, issue 5, pp 255-257, **ISSN: 2249 – 8958**, June 2013.
31. A M Khan and C Ramachandra, 'Metal cutting Technology for Submicron Structures in Semiconducto Devices', Proc. International Conference on Advance Materials, Manufacturing, Management and Thermal Sciences (AMMMT-2013), SIT Tumkur, May 2013.
32. Syeda Erfana Zohora, Nisar Hundewale, **A M Khan**, 'Chemical Sensors Employed in Electronic Noses: A Review, 'International Journal of Soft Computing and Engineering (IJSCE), ISSN No: 2231-2307, May 2013
33. B R Nagendra, V Ramesh Naidu, Dr. N K Misra, **Dr. A M Khan**, 'Signal Mangitude Analysis of Satellite Vibration Data', International Journal of Computer Applications (IJCA), Special Issue, No 2,,ISBN No: 973-93-0872-68-3, February 2013.
34. Sathish R Kulkarni, **A M Khan** and C G Patil, 'Integrating Expert System Module with the Image Processing Module for Real-Time Generation of Satellite Images', International Journal of Computer Applications (IJCA), Special Issue, No 3, ISBN No: 973-93-0872-69-1, February 2013.
35. Jose Alex Mathews, **A M Khan** & U C Niranjana 'Sensitivity and Accuracy comparison of the Algorithms for the Abnormality Extraction of the MRI Slice Images of a GUI based Intelligent Diagnostic Imaging System', International Journal of Computer Applications (IJCA), Special Issue, No 4, pp 1-5, ISBN: 973-93-80872-70-8, February 2013.
36. A. M. Khan and C Ramachandra, 'CAD Less Navigation Method for VLSI Circuit Edit', International Journal of Semiconductor Science and technology (IJSST), Vol 4, No1, pp 23-29, ISSN: 0975-6493, 2013.

37. A M Khan and Mohammed Mahfooz Sheikh “ Parallelisation Strategies of Large Application Codes – A case study “ Proceedings of first International Conference on Future Computing, ICFC-2012.
38. Jose Alex Mathews, **A M Khan** & U C Niranjana “ Accuracy and sensitivity of the intelligent algorithm used for the extraction and diagnosis of MRI brain abnormality and diseases in intelligent diagnostic imaging systems.” second International conference on biomedical engineering and assistive technologies, BEATS-2012.
39. Ravi S and A M Khan, “ Operators used in edge detection computation: A case study”, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol.7 No.11 page no. 2022-2027,2012.
40. Mohammed Mahfooz Sheikh, **A M Khan**, R P Thangavelu and U N Sinha. “On Scalability Aspects of Cluster Computing”, Proceedings of ICEDSP-2012.
41. Mohammed Mahfooz Sheikh, **A M Khan**, T Venkatesh, U N Sinha, “The Assessment of Bandwidth Requirements for Meteorological Code Varsha on a Parallel Computing System”, International Journal of Engineering Research and Applications, Volume 2, Issue 4, July-August 2012 PP. 1261-1268.
42. Ramachandra Chitakudige, P.V.Shashikumar, **Dr. A.M. Khan**, Dr. Sarat Kumar Dash, Japal Doraisamy. “FIB deposited molybdenum contact for VLSI Circuit Edit”, ISTA-2012.
43. Ramachandra Chitakudige, Dr. Sarat Kumar Dash, **Dr.A.M.Khan**.”Deprocessing methodologies for detection of IBC and cell to cell short in submicron DRAM.” , ISTA - 2012.
44. B R Nagendra, V Ramesh Naidu, Dr. N K Misra, **Dr. A M Khan**. “ Signal Magnitude Analysis of Satellite Vibration Data.”, Proceedings of International Conference of Electronics Design and Signal Processing (ICEDSP), Manipal-2012.
45. Sathish R Kulkarni, **A M Khan** and C G Patil, “Integrating Expert System Module with the Image Processing Module for Real-Time Generation of Satellite Images.”, Proceedings of ICEDSP-2012.
46. Syeda Erfana Zohora, **Dr. A.M.Khan**, Dr. Nisar Hundewale. ‘Support Vector Machine: An approach for the Discrimination of Individual Gases/Odors using an Integrated Gas Sensor Array’.
47. Syeda Erfana Zohora, **Dr. A.M.Khan**, Dr. Nisar Hundewale. ‘A Review of Electronic Nose’s Application to Food Analysis Using Metal Oxide Sensors’. 2<sup>nd</sup> International Conference on Soft Computing, Artificial Intelligence and Applications. May-2012.

48. Syeda Erfana Zohora, **Dr. A.M.Khan**, Dr. Nisar Hundewale. ‘ An approach for the Discrimination of Individual Gases/Odors using an Integrated Gas Sensor Array’. 2<sup>nd</sup> International Conference on Soft Computing, Artificial Intelligence and Applications. May-2012.
49. Syeda Erfana Zohora, **Dr. A.M.Khan**, Dr. Nisar Hundewale ‘Electronic Noses Principles and its Applications: A Review’. International Journal of Imaging Science and Engineering. Vol 6, I April-2012. ISSN No: 1934 -9955.
50. Syeda Erfana Zohora, Nisar Hundewale, **A.M.Khan**. ‘Chemical Sensors Employed in Electronic Nose: A Review, ’International Journal of Artificial Intelligence And Applications, January 2012.ISSN No: 0976-2-91
51. Satish R Kulkarni, Dr. C.G. Patil and **Dr.A.M Khan**. ‘ An Automated System for Real Time Generation of Bispectral Hybrid Imageries’ CIIT International Journal of Digital Image Processing volume 3, No 15, 2011.
52. Sathish R Kulkarni, C.G.Patil and **A.M.Khan**, “Real Time Image Representation for Weather Forecast over Launch Pad”, 5<sup>th</sup> International Conference on Information Processing, ICIP 2011, Bangalore, August 2011.
53. Jose Alex Mathews, **A M Khan** & U C Niranjana, “Diagnosis of the Abnormality Extracted MRI slice images of a GUI based Intelligent Diagnostic System,” IEEE International Conference on Process Automation, Control and Computing(IPACC 2011), CIT, Coimbatore, July 2011.
54. Jose Alex Mathew, **A.M.Khan**, U.C.Niranjana, “Diagnosis of the abnormality extracted MRI slice images of a GUI based Intelligent diagnostic imaging system will be published in IEEE Xplore. IEEE catalog number: CFP1166N-PRT, ISBN: 978-1-61284-762-7. June, 2011.
55. Jose Alex Mathews, **A M Khan** & U C Niranjana. “Algorithms to find the thresholds for the Abnormality Extraction of the MRI slice Images of a GUI based Intelligent Diagnostic Imaging System” proceedings of International Conference on VLSI and Communications, SAINTGITS College of Engineering, Kottayam ,March, 2011.
56. Jose Alex Mathew, **A.M.Khan**, U.C.Niranjana, “Algorithms to find the thresholds for the abnormality extraction of the MRI slice images of a GUI based Intelligent diagnostic imaging system. Published in special issue in International Journal of Computer Applications with ISBN: 978-93-80746-57-8. 2011
57. C.Ramachandra, Sarat Kumar Dash, M.Ravindra, **Dr. A.M.Khan**, B.M.Sweety,U.G.Chandan, D.Jaypal ‘In-Situ Polyimide Removal Using Modified Dual Acid Decapsulator’ IEEE, IPFA2010.

58. Jose Alex Mathew, **A M Khan** and U C Niranjan. 'Image segmentation and classification of the MRI images to find the abnormalities of the brain for the development of an Intelligent Diagnostic Imaging System', Proc.Intl. Conf. on Electronics Design and Signal Processing, MIT, Manipal, December 2009.
59. Jose Alex Mathews, **A M Khan** & U C Niranjan, "Image Segmentation and Classification of the MRI Images to find the Abnormalities of the Brain for the Development of an Intelligent Diagnostic Imaging System", proceedings of International conference on Electronic Design and Signal Processing 2009, ICEDSP 09 MIT, Manipal, December 2009.
60. B. R. Nagendra, V. Ramesh Naidu, Dr. N. K. Misra and **Dr. A. M. Khan**. 'Region of Interest Based Compression of Medical Images Using Wavelets' International Conference on Electronics Design and Signal Processing , MIT, Manipal, December 2009.
61. C.G. Patil, **A.M.Khan**, Sathish R Kulkarni, "An Expert Syatem for Monitoring the Health of Imaging Payload Onboard Spacecrafts, Proceedings of the 4<sup>th</sup> Indian International Conference on Artificial Intelligence, Tumkur, December 2009.
62. Ramachandra, D. Jaypal, Dr. S.K. Dash, Dr. M. Ravindra, **Dr. A.M. Khan** B.M. Sweety; U.G. Chandan, 'VLSI Circuit Edit through Nano Surgery'. Proc. of International VLSI Conference, Guargaon, November 2009.
63. Dr. C.G. Patil1, **Dr. A.M. Khan**, Satish R Kulkarni. 'An Expert System for Monitoring the Health of Imaging Payload Onboard Spacecrafts', 4th Indian International Conference on Artificial Intelligence (IICAI-09.)
64. Ramachandra, D. Jaypal,Dr. S.K. Dash, Dr. M. Ravindra, **Dr. A.M. Khan** B.M. Sweety, U.G. Chandan. 'In situ polyimide removal using modified decapsulator'. International Symposium on Test and Failure Analysis California, US November 2009.
65. Jose Alex Mathew, **A.M.Khan**, U.C.Niranja, "Digital Image Processing Methods to find the Abnormalities of the Brain for the Development of the Intelligent Diagnostic Imaging System" Proceedings of International Conference on VLSI and Communications, SAINTGITS College of Engineering, Kottayam, April 2009, pp. 1009-1014.
66. Jose Alex Mathews, **A M Khan** & U C Niranjan. 'Digita Image Processing methods to find the abnormalities of the brain for the development of an intelligent diagnostic imaging system'.International Journal of Computational Intelligence Research & Application, vol.3 No.1. PP.169-174, January 2009
67. Jose Alex Mathew, **A M Khan** and U C Niranjan., 'Clinical study of the abnormality of the brain for the development of an Intelligent Imaging System', Control and Instrumentation Conference(CISCON2008), MIT, Manipal, November2008.



68. **A.M.Khan**, Mohammed Mahfooz, Ganesh Sanjeev, 'A PLL Based Automated Magnetron Tuning Mechanism for Electron Accelerators'. IOP- Journal of Instrumentation, 2008\_JINST\_3\_PO9005, September 2008.
69. **A.M.Khan**, Mohammad Mahhfooz Sheikh, Ganesh, B.Hanumaiah, K.Siddappa, 'An Automated Beam Extraction System for Microtron'. IETE Technical Review, Vol. 25, No.3, May-June 2008.
70. **A.M.Khan**, Mohammad Mahhfooz Sheikh, Ganesh, B.Hanumaiah, K.Siddappa 'Design of an Embedded Control System for the Power Supplies of Microtron'. IEEE Xplore.

## National

1. Mohammed Mahfooz Sheikh, **A.M.Khan**, R.P.Thangavelu and U N Sinha, "On Scalability aspects of Cluster Computing", Indian Journal of Geo-Marine Sciences, pp. 642-645, Vol 43(4), April 2014.
2. Ravi S and **A M Khan**, 'Morphological Operations for Image Processing: Understanding and its application' Proc. Of 2<sup>nd</sup> National Conference on VLSI, Signal Processing & Communications, Vignan's University, Guntur, Pp:17-19, December 2013.
3. Chandana B.R. and **A M Khan**, 'A Review of basic Optical Networking Approaches on Functionalities of Various Devices and Technologies', proc. of National Conference on Advances in Signal Processing, Communications And Networking (NCASPCN-2013), SSIT, Tumkur, August 2013.
4. **A. M. Khan** and C Ramachandra, 'FIB deposited molybdenum micro contact for VLSI Circuit Edit', Proc. 1<sup>st</sup> National Conference on Micro and Nano Fabrication, CMTI, Bangalore, pp 281-285, ISBN: 978-81-89650-50-6, January 2013.
5. **A.M.Khan**, M.Mahfooz, Ganesh, B.Hanumaiah, K.Siddappa., 'An Integrator Unit to Calculate the Dosage Irradiated on the Sample Target in the Microtron.' Journal of the Instrument Society of India, Vol. 38, No. 2, pp. 87-90, June 2008.
6. Jose Alex Mathew, **A M Khan** and U C Niranjana., 'An Intelligent Imaging System for MRI Scan'. National Conference on Devices, Intelligent Systems & Communications. MIT, Manipal, December 2007.
7. **A. M. Khan**, M. Mahfooz, B. Hanumaiah, Ganesh and K. Siddappa, 'A Microcontroller Based Tuning Mechanism for the Magnetron', Proc. Indian Particle Accelerator Conference, InPAC-2006, November 2006.
8. **Khan A. M.**, Mohammed Mahfooz Sheikh, Hanumaiah B., Ganesh and Siddappa K. 'An Integrator Unit to Calculate the Dosage Irradiated on the Sample Target in the Microtron'. Proc. National Symposium on Instrumentation NSI - 31, Institute of technology and Management, Gwalior, 165 Nov 2006

9. **A. M. Khan**, M. Mahfooz, B. Hanumaiah, Ganesh & K. Siddappa, 'An Embedded Control System for Magnetron Power Supply of Microtron', Proc. of the National Conf. on Emerging Trends in Physics, Electronics and Engineering Sciences, Mysore, September 2006.
10. **A.M.Khan**, Mohammad Mahhfooz Sheikh, Ganesh, B.Hanumaiah, K.Siddappa 'An Automated Control System for the Cathode Power Supply of Microtron', Journal of the Instrumentation Society of India.
11. **Khan A. M.**, Mohammed Mahfooz Sheikh, Hanumaiah B., Ganesh and Siddappa K, 'Design of a computer based power supply system for magnetron of the microtron' Proc. National Conference on Emerging Trends in Embedded Systems, Erode, Oct 2005.
12. **Khan A. M.**, Mohammed Mahfooz Sheikh, Hanumaiah B., Ganesh and Siddappa K., 'Design of a computer based control system for cathode power supply of Microtron', Proc. National Symposium on Instrumentation, 165, 2005.
13. **A. M. Khan**, Ganesh, B. Hanumaiah, Mohammed Mahfooz Sheikh, 'Desig of a computer based beam extraction system for Microtron', Proc. Indian particle accelerator conference (InPAC- 2005), 2005.
14. **A.M.Khan**, Mohammed Mahfooz Sheikh, B.Hanumaiah, Ganesh and K. Siddappa, 'An Embedded System for the Control of Cathode Power Supply of Microtron', Proc. National Conference on Emerging Trends in Embedded Systems, pp. 1, 2005.
15. **A.M.Khan**, Mohammed Mahfooz Sheikh, B. Hanumaiah, Ganesh and K. Siddappa, 'Design of a Computer based Control System for the Power Supply of Microtron', Proc. National Conference on Emerging Trends in Embedded Systems, pp. 1 – 2, 2005.
16. **A.M.Khan**, B.Hanumaiah, Ganesh, K.Siddappa 'Design of a control card for remote operation of the magnet power supply of microtron'. Proc. National Symposium on Radiation Physics, BARC, Mumbai, Nov12-14, 2003.
17. **A.M.Khan**, H.G. Preethi, G.N.Seema, 'A microcontroller based general purpose inteface card' Proc. National Symposium on Instrumentation, Govind Ballabh Pant University of Agri. and Tech. , Pantnagar, Nov. 3-5, 2003.
18. Raghuram C.R, **A.Mohammad Khan**, 'Touch Panel Input System for Life Line', Proc. National Conference on Biomedical Engineering, MIT, Manipal, April 1998.
19. **A.M.Khan**, Sudharashan.I, 'Transconductance Amplifier'.Lab Experiments, I, pp. 1-7, 2001.
20. **A.M.Khan**, Sumalatha.G, Suchitra.N., 'Logic Function Table Displayer', Lab Experiments, I, pp. 26-31, 2001.

21. **A.M.Khan**, Trilochana. K.S, 'Measurement of Op – Amp parameters using sweep technique', Lab Experiments, I, pp. 54-63, 2001.

## Books / Book chapters / Translations published

- 1.

## Papers/ poster presentations in Conferences / Seminars / Symposia

### International - Recent

1. NarayanaPrakash S and **A. M. Khan** "A Review on Image Compression Techniques for Medical Image Compression" in International Conference on Recent Trends in Science, Engineering and Mathematics, (ICRTSEM-2019) GOA, India, Sept.2019.
2. NarayanaPrakash S and **A. M. Khan**, "Wavelet Selection for MRI brain medical image compression" in International conference on Innovative trends in Electronics and Communication-ICINEC-2019 Kuvempu University, Shimoga, Dec.2019, ISBN 978-93-83985-20-3, pp.1-7.
3. Vijayalaxmi H M and **A M Khan** "Defeating attack in the Massey – Omura Cryptosystem" in the International Conference on recent trends in science Engineering and Mathematics. (ICRTSEM-2020) GOA, India, Sept-2019.
4. Vijayalaxmi H M and **A M Khan** "Novel methods of complex key generation techniques for Vernam Cipher." in the International Conference on Laser Deposition (iCold-2019), Alva's Institute of engineering and Technology, Mijar, Moodbidri, India, November 27-29,2019.
5. Vijayalaxmi H M and **A M Khan** "Complex key generation with secured seed exchange for Vernam Cipher in security applications." in Elsevier: Materials Today: Proceedings, India, published on 5<sup>th</sup> April 2020.
6. Beeresha .R .S, **A. M. Khan**, Manjunath Reddy H. V, "Design and Fabrication of Spiral Inductors Using MMIC Technology," International Conference on Innovative Trends in Electronics and Communication (ICINEC-2019), Kuvempu University, Shimoga, Dec-2019.

### National

1. NarayanaPrakash S and **A. M. Khan** "MRI image compression using multiple wavelets at different levels of discrete wavelets transform" in National Conference on Computational Intelligence (NCCI2019), Kristu Jayanti College, Bangalore, Dec.2019, ISBN:978-93-5311-592-1, pp. 8-20.

Invited / plenary talks delivered (list) (if applicable)

1. Invited Lecture at Goal Technologies Mangalore
2. Invited Lecture at Karnataka Polytechnic, Mangalore
3. Invited talk at National Conference at SDM College, Mysore
4. Invited talk at National Conference at Oxford College, Bangalore
5. Invited Talk in Refresher course at Goa University, Goa
6. Inaugural Address at national Conference at Kuvempu University, Shimoga
- 7.

Impact of publications in terms of (Non-science faculty can leave out this item, if unable to fill up).

h-index: 13 Google Scholar

i10 index: 12

Citation index: - Over 2000 Citations

Conferences / Seminars / Workshops / Symposia organized(if applicable)

1. State level VGST workshop for PG Teachers of Electronics, 12-13 March 2010 (Funded by VGST)
2. Workshop on Microcontrollers and Embedded Systems for Teachers,
3. One – Week Workshop on ICT Training for Faculty in association with Microsoft, Febraury 2015.
4. Workshop on Matlab Xilinx and their Applications – 25-26<sup>th</sup> August 2014 (Funded by Industry)
5. Lecture series on Analog IC design- 23rd April 2012 (Funded by University)
6. Workshop on Labview- 27th March 2012 (Funded by Industry)
7. Lecture Series - 26th March 2012(Funded by University)

Awards / Fellowship / Recognition (Specify)(if applicable)

**Best Teacher Award** instituted by Manipal Dot Net technologies in recognition of services to students (August 2013).

Membership of Professional Bodies

- Member Instrumentation Society of India.
- Member Bio Medical Electronic Society of India.
- Member, Mangala Alumni Association.
- Member, Mangalore University Teachers Association.