



SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

Pulloor, Kariapatti –Taluk. Virudhunagar Dist-626115.



Department of Electronics and Communication Engineering				
Name	Dr.M.Parisa Beham			
Date of Birth	15.05.1977			
Unique ID	1-7415594719			
Educational Qualifications	M.E,Ph.D			
Designation	Professor& Head of the Department			
Email ID	parisabeham@sethu.ac.in			
Alternate Email ID	parisaphd2011@gmail.com			
Experience	Industry	Teaching	Others	Total
	--	16 Years		16 Years
Date of Joining the Institution	06.11.2017			
Area of Specialization	Biomedical Signal & Image Processing, Computer Vision and Pattern Recognition			
Courses taught	1. Signals and System 2. Linear Control Engineering			
Research Focus	Biomedical Signal & Image Processing, Computer Vision and Pattern Recognition			
Research guidance (Number of Scholars)	2			
Subject Competency	1. Signals and System 2. Linear Control Engineering			
No. of papers published	National Journals	International Journals	Conferences	
	10	50	60	
PG Specialization	Applied Electronics			
Ph.D. Specialization	Computer vision & Image processing			
Projects Carried out	30			
Patents (Filed & Granted)	Filed (10) Granted(2)			
Technology Transfer	Nil			
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	5			



Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	A.M.I.E	ECE	Institution of Engineers India	2000
PG	M.E	Applied Electronics	Anna University, Chennai	2006
Ph.D.	Ph.D	Computer vision & Image processing	Anna University, Chennai	2016

Details of Journal Publication:

1. Meenambigai V, Pabitha Muthu P, Tamilselvi R, Parisa Beham M, Nandhineeswari S, and Ahamed Sheriff K M “Firmware Over-The-Air (FOTA) Update for Industrial IOT solutions” Published at the International Conference on Innovation, Sustainability and Applied Sciences (ICISAS), 2025 at Curtin University Dubai
2. A.Sabah Afroze, R. Tamil Selvi , M. Parisa Beham, J. Judith, S. Sathiya Pandiya Lakshmi, M.Bharkavi Sandhiya ,K .M. Ahamed Sheriff7” Assessment of risk of osteoarthritis in knee using thermal Images.” Published at the International Conference on Innovation, Sustainability and Applied Sciences (ICISAS), 2025 at Curtin University Dubai
3. S M Seeni Mohamed Aliar Maraikkayar, R Tamilselvi, M Parisa Beham, KShanmuga Priya, M Gayathri, M ,K Ahamed Sheriff6 “FMD-Net: A Hybrid Deep Learning Framework for Automated and Sustainable Detection of Fetal Movements in Ultrasound Imaging” Published at the International Conference on Innovation, Sustainability and Applied Sciences (ICISAS), 2025 at Curtin University Dubai.
4. A Review- A Sabah Afroze, R Tamilselvi, **MG Parisa Beham** Machine Learning Based Osteoarthritis Detection Methods in Different Imaging Modalities: Current Medical Imaging-2023.
5. S M A Maraikkayar, R Tamilselvi, **MP Beham** BIOPHYSIT: A Novel Biophysical Profile Database for Fetal Stress Measurement in High-Risk Pregnancies Biomedical and Pharmacology Journal 16-2023.
6. T Ruba, R Tamilselvi, **MP Beham** Brain tumor segmentation in multimodal MRI images using novel LSIS operator and deep learning Journal of Ambient Intelligence and Humanized Computing-2023.
7. T Ruba, R Tamilselvi, **MP Beham** Brain tumor segmentation using J Gate-Att ResUNet–A novel deep learning approach Biomedical Signal Processing and Control 84-2023.
8. SA Inigo, R Tamilselvi, **MP Beham** A Review on Imaging Techniques and Artificial Intelligence Models for Osteoporosis Prediction. Current Medical Imaging-2023.
9. T Ruba, R Tamilselvi, **MP Beham**, M Gayathri-2023 Segmentation of a Brain Tumour using Modified LinkNet Architecture from MRI ImagesJournal of Innovative ImageProcessing-2023.
10. MJ Seeni Mohamed Aliar Maraikkayar, R Tamilselvi, **MG Parisa Beham** Novel Digital Filter Design for Noise Removal in Fetal ECG Signals,The Open Biomedical Engineering Journal - 2023.
11. A Review. R Tamilselvi, **P Beham** Machine Learning Based Osteoarthritis Detection Methods in Different Imaging Modalities: Current Medical Imaging-2023.
12. M Pandimadevi, R Tamilselvi, **MP Beham** Performance enhancement of patch antenna using nano composite substrate for modern wireless communication systems Materials Today:

13. D.Sabarinathan, **M.Parisa Beham**, R.Tamilselvi and SMM Roomi, “Ulcer Net: Multilevel Attention Network for Diabetic foot Ulcer Segmentation”-2023.
14. S.M.Seeni Mohamed Aliar Maraikkayar, R.Tamilselvi, **M.Parisa Beham**, T.Ruba, B.Archana, “An Automated Approach for Detecting Fetal Stress Using CTG Signal”, Dickensian journal-2022.
15. S.M.Seeni Mohamed Aliar Maraikkayar, R.Tamilselvi, **M. Parisa Beham** and K. Shanmuga Priya, "Analysis of Amniotic Fluid in fetal Assessment from biophysical profile", Dickensian journal-2022.
16. A Sabah Afroze, R Tamilselvi and **M.Parisa Beham**, “Easy analyzer for bone risk condition” Dickensian journal -2022.
17. M Pandimadevi, R Tamilselvi, **M ParisaBeham**, “Design and simulation of flexible jute antenna with performance validation on bending and soaking conditions”, Textile Research Journal, 2021
18. S.Bagyaraj, R.Tamilselvi, **M.ParisaBeham**, V.Kalaiarasi, A.Ishwarya Lakshmi, V.Harrini And D.Vaithiyanathan, “Detection of Bone Cancer in X-Ray Images”, Volume: 63 Issue: 3, -2020.
19. NaziaFathima, SM, Tamilselvi, R, **ParisaBeham, M** & Sabarinathan.D, “Diagnosis of osteoporosis using modified U-net architecture with attention unit in DEXA and X-ray images”, Journal of X-RayScience and Technology, vol. 28, no. 5, pp.953-973-2020.
20. NaziaFathima, SM, Tamilselvi.R & **Parisa Beham, M**, “A survey on osteoporosis detection methods with a focus on X-ray and DEXA Images”, IETE Journal of Research, vol. 66, no. 4, pp. 1-25, 2020.
21. S.M.NaziaFathima, R.Tamilselvi and **M.ParisaBeham**, “DEXSIT-v2: Database for the Detection ofFracture Risk Condition”, Biomedical and Pharmacology journal-2020.
22. NaziaFathima.S.M, Tamilselvi.R & **Parisa Beham, M** “A survey on osteoporosis detection methods with a focus on X ray and DEXA Images”, IETE Journal of Research, vol. 66, no. 4, pp. 1-2020.
23. Yuvashree, swetha, sountharya, **M Parisa Beham** and R Tamilselvi. “Detection of RA by tracking region of interest (ROI) using Image Analysis Techniques”, International Journal of Scientific Engineering and Applied Science (IJSEAS)-2020.
24. Shabreen Fathima.T, Shenbaga Priyanka.M, Shanmugi.B, **M Parisa Beham** and R Tamilselvi. “Face tampering detection using gradient features, International Journal of Scientific Engineering and Applied Science (IJSEAS)-2020
25. M Pandimadevi, R.Tamilselvi and **M Parisa Beham**, “Design and Simulation of Flexible Jute Antenna with Performance Validation on Bending and Soaking Conditions”Textile Research Journal-2020.
26. S.M.NaziaFathima, R.Tamilselvi and **M.Parisa Beham** , “Diagnosis of Osteoporosis using Modified U-Net Architecture Diagnosis of Osteoporosis using Modified U-Net Architecture with Attention Unit in DEXA and X-Ray Images" Journal of X-ray Science and Technology-2020.
27. T.Ruba, R.Tamilselvi, **M.Parisa Beham**, “Accurate classification and detection of brain cancer cells in MRI and CT images using Nano contrast agents”, Biomedical and Pharmacology journal -2020.
28. G. VairaSuganthi,, R. Tamilselvi, **M. ParisaBeham** and A.Nagaraj A Systematic Review of Energy Harvesting from Biomechanical Factors Bajrang C., Biomedical andPharmacology journal- 2019
29. T.Ruba, R.Tamilselvi, **M.Parisa Beham** Brain Tumor Segmentation in MRI images Using Deep Learning – A Review , International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering- 2019
30. M.Pandimadevi, R.Tamilselvi, A. Saba Afroze, **M. Parisa Beham** Design Issues of Flexible

31. Seeni Mohamed Aliar Maraikkayar S M ,Tamilselvi R , **Parisa Beham M** ,Sabah Afroze. A EEG and EMG based BCI System - A Review International Research Journal of Innovations in Engineering and Technology – IRJIET- 2019
32. S.M.Seeni Mohamed Aliar Maraikkayar , R.Tamilselvi ,**M.Parisa Beham** ,M.Bharkavi Sandhiya ,A.Sabah Afroze Design of IOT Based Robotic Arm for Health Care International Research Journal of Innovations in Engineering and Technology – IRJIET- 2019
33. A.SabahAfroze, R. Tamilselvi, S.M. Seeni Mohamed Aliar, Maraikkayar, **M. Parisa Beham**, “A Survey on Nano contrast Agents for Cancer Diagnosis from MRI”, International Research Journal of Innovations in Engineering and Technology – IRJIET, Volume 3, Issue 9, pp. 12-16, September-2019
34. T.Ruba, R.Tamilselvi, **M.Parisabeham** “Brain Tumor Segmentation in MRI images Using Deep Learning – A Review”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume.8, Issue.8-2019.
34. S.M.NaziaFathima, R.Tamilselvi and **M.Parisa Beham**, “XSITRAY: A Database for the Detection of Osteoporosis Condition, Biomedical and Pharmacology journal, Volume.12 Issue 1,2019.pp.267-271-2019
35. M.Pandimadevi, R.Tamilselvi, A. Saba Afroze, **M. Parisa Beham**, “Design of Flexible Slot Antenna using different substrate materials for UWB applications”, International Journal of Innovative Technology and Exploring Engineering, Volume: 8-2019.
36. S.M.NaziaFathima, R.Tamilselvi and **M.Parisa Beham**, “Evaluation of Fracture Risk Condition using Bone Mineral Content and Standard Deviation”, International Journal of Innovative Technology and Exploring Engineering, Volume:8-2019.
37. M.Pandimadevi, R.Tamilselvi and **M. Parisa Beham**, “ Design Issues of Flexible Antenna -A Review”, International Journal of Advanced Trends in Computer Science and Engineering, Volume 8,No.4,pp.1386-1394-2019.
38. A.SabahAfroze, **M.ParisaBeham**, R.Tamilselvi, S.M. Seeni Mohamed AliarMaraikkayar, “Age invariant face recognition using Frangi2D binary pattern”, ACM Digital Library, -2019.
39. S. M. Seeni Mohamed AliarMaraikkayar, R. Tamilselvi, **M. Parisa Beham**, A.Sabah Afroze, “Performance and Statistical Analysis of Chaotic Random Bit Generator”, International Journal of Computer and Communication Engineering, Volume:8,pp.83- 92-2019.
40. S.M.NaziaFathima, R.Tamilselvi and **M.Parisa Beham**, “Estimation of T-score and BMD values from X-ray images for detection of osteoporosis”, ACM Digital Library- 2019.
41. A.SabahAfroze, **M. Parisa Beham**, R. Tamilselvi, S.M. Seeni Mohamed Aliar, Maraikkayar, K.Rajakumar , “Cotton Leaf Disease Detection using Texture and Gradient Features” International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1, October-2019.
42. S.M.Seeni Mohamed AliarMaraikkayar, R.Tamilselvi, A. Sabah Afroze, **M.Parisa Beham**, K.Rajakumar “Electrophysiological analysis of Agony and Consciousness in Comatose”, International Journal of Engineering and Advanced Technology (IJEAT), Volume-8 Issue-6, August 2019-2019
43. S.M.Seeni Mohamed AliarMaraikkayar , R.Tamilselvi ,**M.ParisaBeham**, M.Bharkavi Sandhiya,A.SabahAfroze “Design of IOT Based Robotic Arm for Health Care”, International Research Journal of Innovations in Engineering and Technology – IRJIET, Volume 3, Issue 9, pp. 23-29, September – 2019

44. Seeni Mohamed AliarMaraikkayar S M , Tamilselvi R , **ParisaBeham M** ,Sabah Afroze A, “EEG and EMG based BCI System - A Review” International Research Journal of Innovations in Engineering and Technology – IRJIET, Volume 3, Issue 9, pp. 17-22, September – 2019.
45. S.M.NaziaFathima, R.Tamilselvi and **M.Parisa Beham**, “Role of X-rays in Assessment of Bone Mineral Density – A Review”, chapter6, Innovations in Electronics and Communication Engineering, Lecture Notes in Networks and Systems 65, © SpringerNature Singapore-2019.
46. R.Tamilselvi and **M.Parisa Beham**, “Performance Analysis of Nanoparticles in healthcare and Biomedical Applications”, chapter2, Innovations in Electronics and Communication Engineering, Lecture Notes in Networks and Systems 65, © Springer Nature Singapore-2019.
47. R.Tamilselvi and **M.Parisa Beham**, “Detection and Classification of Exudates and Non-Exudates in Retinal Images”, chapter1, Innovations in Electronics and Communication Engineering, Lecture Notes in Networks and Systems 65, © Springer Nature Singapore Pte Ltd-2019.
48. R.Tamilselvi and **M.Parisa Beham**, “Accurate Classification of Cancer in Mammogram Images”, chapter8, Innovations in Electronics and Communication Engineering, Lecture Notes in Networks and Systems 65, © Springer Nature Singapore Pte Ltd-2019.
49. T.Ruba, R.Tamilselvi, **M.Parisabeham**, “Performance analysis of Various Nano contrast agents and CAD Systems for Different Types of Cancer Diagnosis”, Current Medical Imaging Reviews (Scopus, SCIE),-2018, DOI: 10.2174/ 157340561466618092412473.-2018
50. R.Tamilselvi, **M.Parisa Beham**, A.Merline, “Detection of Fetal stress from Mother abdominal Electro Cardiogram signal”, International Journal of Computer science and Engineering, , Vol.6, No.4, pp.49-55- 2018.
51. **M.Parisa Beham** and R.Tamilselvi, “Performance Analysis of Age Invariant Face Recognition methods”, International Journal of Computer science and Engineering, IJCSE, Vol.6,No.4, pp.65-70-2018.

Details of Conference attended

1. Meenambigai V, Pabitha Muthu P, Tamilselvi R, **Parisa Beham M**, Nandhineeswari S, and Ahamed Sheriff K M “Firmware Over-The-Air (FOTA) Update for Industrial IOT solutions” Published at the International Conference on Innovation, Sustainability and Applied Sciences (ICISAS), 2025 at Curtin University Dubai
2. A.Sabah Afroze, R. Tamil Selvi , **M. Parisa Beham**, J. Judith, S. Sathiya Pandiya Lakshmi, M.Bharkavi Sandhiya ,K .M. Ahamed Sheriff7” Assessment of risk of osteoarthritis in knee using thermal Images.” Published at the International Conference on Innovation, Sustainability and Applied Sciences (ICISAS), 2025 at Curtin University Dubai
3. S M Seeni Mohamed Aliar Maraikkayar, R Tamilselvi, **M Parisa Beham**, KShanmuga Priya, M Gayathri, M ,K Ahamed Sheriff6 “FMD-Net: A Hybrid Deep Learning Framework for Automated and Sustainable Detection of Fetal Movements in Ultrasound Imaging” Published at the International Conference on Innovation, Sustainability and Applied Sciences (ICISAS), 2025 at Curtin University Dubai.
4. R. Geetha, S.Arulselvi, R.Tamilselvi, **M.Parisa Beham**, Alavikunhu Panthakkan, Wathiq Mansoor, Hussain Al Ahmad, “Analysing Osteoporosis Detection: A Comparative Study of CNN and FNN” Electrical Engineering and Systems Science, Image and Video Processing-2024
5. R. Geetha, S.Arulselvi, R.Tamilselvi, **M. Parisa Beham** and S. Nandhineeswari ” Hybrid CNN-RNN Approach for Accurate Prediction of Osteoporosis” International conference on Innovation, Sustainability and Applied Sciences ICSIS 2024

6. Geetha Ramamoorthy, Arulselvi Subramanian, Tamilselvi Rajendran, **Parisa BehamMohamed** “Comparative Analysis of Image Denoising Techniques for Osteoporosis Detection Using DXA and X-ray Imaging” Biomedical and Pharmacology Journal -2024
7. S.M.Seeni Mohamed Aliar Maraikkayar, R.Tamilselvi, **M.Parisa Beham**, An Automated Approach for the detection of Amniotic fluid index using modified Af-Net Deep Learning Architecture- ISCA Conference - 2023.
8. D.Sabarinathan, **M.Parisa Beham**, R.Tamilselvi and SMM Roomi, “Ulcer Net: Multilevel Attention Network for Diabetic foot Ulcer Segmentation”, ISCA conference- 2023.
9. S.M.Seeni Mohamed Aliar Maraikkayar, R.Tamilselvi, **M.Parisa Beham**, Analysis of amniotic fluid in fetal assessment using Biophysical profile images-ICVGIP Conference-2022.
10. **M.Parisa Beham** M.Pandimadevi, R.Tamilselvi “Performance enhancement
11. Of patch antenna using Nano composite substrate for modern wireless communication systems” ISSN 2214-7853-2022
12. M.Uma Maheshwari Dr.R.Tamilselvi, **Dr.M.Parisa Beham** and Dr M.AmjathHasan “Automated Pneumonia Detection Method using Hybrid Semantic Segmentation Network ICTSGS – 2021” , [ECS Transaction, Volume 107, Number 1, 2022] SPAST
13. , Nov -2022
14. **M.Parisa Beham**, R.Tamilselvi, K.Shanmugapriya “Analysis of Amniotic fluid in fetal assessment using Biophysical Profile Images” IIT, Gujarat-2023
15. Dr.R.Tamilselvi, **M.Parisa Beham**, S.M.Senni mohamad Aliar Maraikkayar, “An automated approach for the detection of amniotic flu index using modified Af-Net deep learning architecture” - 2023.
16. Dr.R.Tamilselvi, **M.Parisa Beham**, D.Sabarinathan Ulcernet: multilevel Attention Network for Diabetic foot Ulcer Segmenatation-2021
17. Bagyaraj S, Tamilselvi. R, **ParisaBeham, M** & Sabarinathan, D, “Brain tumour cell segmentation and detection using deep learning networks”, IET Image Processing, April -2021.
18. S.M.NaziaFathima, R.Tamilselvi. **M.ParisaBeham** and Nagaraj “A Deep Learning Approach on Segmentation of Bone for BMD Measurement from DEXA Scan”, ICBSII 20, SSN College of Engineering,-2020
19. R.Tamilselvi, A.Nagaraj,**M.ParisaBeham** and M.BharkaviSandhiya,”BRAMSIT: A Database for Brain Tumor Diagnosis and Detection”, ICBSII 20, SSN College of Engineering,-2020
20. **M.ParisaBeham**, N.Kayalvizhi, R.Tamilselvi and A.Nagaraj “MAMMSIT: A Database For The diagnosis and detection of Breast Cancer in Mammography images”, ICBSII 20, SSN College of Engineering,-2020
21. S.M.NaziaFathima, R.Tamilselvi. **M.ParisaBeham** and Nagaraj “A Deep Learning Approach on Segmentation of Bone for BMD Measurement from DEXA Scan”, ICBSII 20, SSN College of Engineering,-2020.
22. **M.ParisaBeham**, N.Kayalvizhi, R.Tamilselvi and A.Nagaraj “MAMMSIT: A Database For The diagnosis and detection of Breast Cancer in Mammography images”, ICBSII 20, SSN College of Engineering- 2020.
23. T Ruba, R.Tamilselvi and **M.Parisa Beham**, “Automatic Detection of prostate Cancer in MRI images using image processing”, ICDASDC 2019,KLN College of Information Technology, March 8-9-2019.
24. S.M.NaziaFathima, R.Tamilselvi. **M.Parisa Beham** and Nagaraj, “Enhancement of X- Ray Images and Analysis of Statistical Parameters for detection of Osteoporosis”, ICBSII 19, SSN College of Engineering, March15-16-2019.
25. A.SabahAfroze, R.Tamilselvi, **M.ParisaBeham**, S.M.Seeni Mohamed AliarMaraikkayar and K.Rajakumar, “A Review on Fetal ECG Extraction and Measurement of Heart Rate”, IEEE ICONDSC19, Christ University, Bangalore, March 1-2-2019.

26. S.M.Seeni Mohamed AliarMaraikkayar, K.Rajakumar, R.Tamilselvi, **M.Parisa Beham** and Sabah Afroze, "Performance and Statistical Analysis of Chaotic Random Bit Generator", ICIGP, Singapore, February 23-25- 2019.
27. Sabah Afroze, **M.ParisaBeham**, R.Tamilselvi, S.M.Seeni Mohamed AliarMaraikkayar and K.Rajakumar, "Age Invariant Face Recognition using Frangi2D Binary Pattern", ICIGP, Singapore, February 23-25-2019.
28. S.M.NaziaFathima, R.Tamilselvi and **M.Parisabeham**, "Estimation of T-Score and BMD Values from X-ray Images for Detection of Osteoporosis", ICMIP18, University of Malaya, Malaysia, January 19-21-2019.
29. Sabah Afroze, R.Tamilselvi, **M.Parisa Beham** S.M.Seeni Mohamed AliarMaraikkayar "Extraction of Power from Biological Parameters to charge the Implantable Devices", IEEE Explorer, ICSPVCE, Delhi-2019.
30. S.M.Nazia Fathima, R.Tamilselvi and **M.Parisa Beham**, "Role of X-rays in Assessment of BoneMineral Density – A Review", ICIECE, Hyderabad, April 27-28,
31. -2018.
32. R.Tamilselvi and **M.Parisa Beham**, "Performance Analysis of Nanoparticles in healthcare andBiomedical Applications", ICIECE, Hyderabad, April 27-28-2018.
33. R.Tamilselvi and **M.Parisa Beham**, "Detection and Classification of Exudates and Non-Exudatesin Retinal Images", ICIECE, Hyderabad, April 27-28-2018.
34. R.Tamilselvi and **M.Parisa Beham**, "Accurate Classification of Cancer in Mammogram Images", Gurunanak Institution, ICIECE, Hyderabad, April 27-28 - 2018.
35. R.Tamilselvi, A.Merline and **M.Parisa Beham** "EMG Activated Robotic Arm for Amputee ",ICISC 18.JCT college of Engineering, Coimbatore, IEEE Explore-2018.
36. S.M.NaziaFathima, R.Tamilselvi and **M.Parisa Beham**, "DEXSIT: A BenchmarkDatabase for BMD Measurement and Analysis", International Conference on Bio signals, Images and Instrumentation, SSN College of Engineering, Chennai-2018.
37. S.M.NaziaFathima, R.Tamilselvi and **M.Parisa Beham**, "Role of Dual-Energy X-Ray Absorptiometry in Assessment of Bone Mineral Density – A Review", International Conference on Informatics Computing in Engineering Systems (ICICES "18), SA Engineering College , Chennai-2018.
38. R.Tamilselvi and **M.Parisa Beham**, "Detection of Fetal Stress from Mother Abdominal ECG signal", ICCCNi 2018, Gandigram Rural Institute, Dindigul-2018.
39. **M.Parisa Beham** and R.Tamilselvi, "Performance Analysis of Age invariant face recognition Methods", ICCCNi 2018 Gandigram Rural Institute, Dindigul-2018.
40. S.M.NaziaFathima, R.Tamilselvi and **M.ParisaBeham**, "Comparison of Various Filters on Dexa Images", ETICT, Sethu Institute of Technology, April 9th 2018-2018
41. R.Tamilselvi and **M.ParisaBeham**, "Performance Comparison of Various Filters on Colorectal Cancer Images", ETICT, Sethu Institute of Technology, April 9th 2018.- 2018
42. R.Tamilselvi and **M.ParisaBeham**, "Abnormality Detection in Mammogram Images using Machine Learning Algorithms", ETICT, Sethu Institute of Technology, April 9th 2018-2018
43. R.Tamilselvi and **M.ParisaBeham**, "Accurate Iris Pattern Recognition", Sethu Institute of Technology, ETICT, April 9th 2018-2018.
44. R.Tamilselvi and **M.ParisaBeham**, "A study on Contrast Agents and their uses in Medical Imaging", ETICT, Sethu Institute of Technology, April 9th 2018-2018.

45. R.Tamilselvi and **M.ParisaBeham**, “Facial Down syndrome in Wild”, Sethu Institute of Technology, ETICT, April 9th 2018-2018.
46. **M. Parisa Beham** S.M. Mansoor Roomi “Face Spoofing Detection Based on Depthmap and Gradient Binary Pattern” International Journal of Applied Engineering Research, ISSN 0973- 4562 Vol. 9 No. 21, 2014-2014.
47. **Parisa Beham M** , Bala Bhattachariar J.U “Face Recognition under Severe Shadow Effects Using Gradient Field Transformation” International Journal of Scientific and Research Publications Volume 3, Issue 6, June 2013-2013.

Details of Book Chapter and Books Published:

1. **M.Parisa Beham** ,R.Tamilselvi,S.Ramya,K.Shanmugapriya,J.Judith “Remote Sensing and Information System”, Shanlax Publications,Vasanth Nagar,Madurai 2025, 978-93-61-63-680-6
2. Mrs.A.Sabah Afroze,Dr.R.Tamilselvi, J.Judith, **Dr.M.ParisaBeham**,” Revolutionizing Osteoarthritis Diagnosis:Cutting-Edge Thermal Imaging and Deep learning Paradigms” IGI Global Publication 2025,
3. S.M.Nazia Fathima,R.Tamilselvi and **M.Parisa Beham**, “Role of X-rays in Assessment of Bone Mineral Density – A Review”, chapter6, Innovations in Electronics and Communication Engineering, Lecture Notes in Networks and Systems 65, © Springer Nature Singapore Pte Ltd. 2019. DOI:. ISBN No. 978-981-13-3765-9
4. R.Tamilselvi and **M.Parisa Beham**, “Performance Analysis of Nanoparticles in healthcare and Biomedical Applications”, chapter2, Innovations in Electronics and Communication Engineering, Lecture Notes in Networks and Systems 65, © Springer Nature Singapore Pte Ltd. 2019. ISBN No. 978-981-13-3765-9
5. R.Tamilselvi and **M.Parisa Beham**, “Detection and Classification of Exudates and Non-Exudates in Retinal Images”, chapter1, Innovations in Electronics and Communication Engineering, Lecture Notes in Networks and Systems 65, © Springer Nature Singapore Pte Ltd. 2019. ISBN No. 978-981-13-3765-9
6. R.Tamilselvi and **M.Parisa Beham**, “Accurate Classification of Cancer in Mammogram Images”, chapter8, Innovations in Electronics and Communication Engineering, Lecture Notes in Networks and Systems 65, © Springer Nature Singapore Pte Ltd. 2019. ISBN No. 978-981-13-3765-9

Details of Patents Filed and Granted:

PATENTS APPLIED			
Inventors	Patent Title	Patent No.	Year
S.M.NaziaFathima, R.Tamilselvi and M.ParisaBeham	A Portable Hand-Held X-Ray Based BMD Meter	061COP-001/India	2018
R.Tamilselvi, M.ParisaBeham	A Movable Medirobo For Immovable Elderly People	E-2/2805/2019-CHE/India.	2019
R.Tamilselvi, M.ParisaBeham	Non Invasive Fetal stress monitoring device	E-2/3785/2019-CHE/India 26.11.19	2019
M.ParisaBeham, R.Tamilselvi	Smart Hundi- Acoin counting gadget	E-2/3786/2019-CHE/India 26.11.19	2019

R.Tamilselvi	A system and methodology Air pressure Stabilization and Pumping Apparatus	2020102069(Granted)	2020
R.Tamilselvi, M.Parisa Beham,T.Ru ba	Go Green Sanitary Pads	Temp/E- 1/63574/2021- CHE	2021
R.Tamilselvi, M.ParisaBeham	Smart Nose for Early detection of Diseases and Pests in Mangoes	Temp/E-1/73431/2022- CHE	2022
R.Tamilselvi, M.ParisaBeham	system and device for amniotic fluid measurement	202341054676 A	2023
R.Tamilselvi, M.ParisaBeham	An apparatus for cotton crop monitoring system in argo-field through Sensors	202341054677 A	2023
M.ParisaBeham, R.Tamilselvi	System and apparatus for smart baby care pad sensor and alert system	202341054349 A	2023
S M Seeni Mohammed Aliar Maraikkaya, Dr.R.Tamilselvi, Dr.M.Parisa Beham, Ms.K.Shanmugapriya	Duocare sterilization Unit for Medical and Industrial Applications	434486-001	2025
Mrs.A.Sabah Afroze Dr.R.Tamilselvi, Dr.M.Parisa Beham, Ms.J.Judith	Multilevel sanitary Napkin Incinerator	434490-001	2025

Expert Lecture Delivered: