



**Dr. E.Menaka B.E., M.E., Ph.D.,
Associate Professor/IT**

Menagaparthi80@gmail.com

EDUCATIONAL QUALIFICATION:

Course	Board/University	Institution	Year of Passing	Percentage
Ph.D	Anna University	Anna University of Technology, Coimbatore.	2017	7.6%
M.E (CSE)	Vinayaka Missions	V.M.K.VEngineeringCollege, Salem.	2006	75.6 %
B.E (CSE)	ManonmaniamSundaranar	Government college of Engineering, Tirunelveli.	2002	68%
XII	State Board	M.D.V Higher Secondary School, Tiruchengode.	1998	87%
X	State Board	M.D.V Higher Secondary School, Tiruchengode.	1996	74%

Title of Ph.D. Thesis: A Study on Feature Extraction from Remote Sensing Images to improve segmentation Accuracy for Detecting Deforestation

Faculty in which Ph.D. was awarded: Information and Communication Engineering

WORK EXPERIENCE:

Total Work Experience:15.6Years.

Designation	Work Period	Institution Name	Department	Course
Professor	01.03.2017 To Till date	Vivekanandha College of Engineering for Women, Namakkal.	Information Technology	B.Tech(IT) M.Tech (IT)
Assistant Professor	15.07.2013 to 28.02.2017	Vivekanandha Institute of Engineering and Technology for Women, Namakkal.	Computer Science Engineering	B.E(CSE) M.E (CNE)

Assistant Professor	03.03.2008 to 15.07.2013	Vivekanandha College of Engineering for Women, Namakkal.	Information Technology	B.Tech(IT) M.Tech (IT)
Lecturer	11.06. 2003 to 02.03. 2008	Vivekanandha College of Engineering for Women, Namakkal.	Information Technology	B.Tech(IT) B.E(CSE) M.E(CSE) M.SC (SE)
Lecturer	02.06. 2002 to 23.04. 2003	Bharath Polytechnic College, Manickampalayam.	Computer Science Department	DCS

AREA OF INTEREST:

- ✓ Image Processing
- ✓ Wireless Sensor Network

EXTRA CURRICULAR ACTIVITIES:

- College Counselling cell Member
- Department **NBA Co-ordinator** (2007 -2013)
- **NBA Internal Auditor** for ECE, MBA Dept
- **Mini Project Co-ordinator**
- **ISO Coordinator**
- **Association Incharge** (2006-2008, Aug' 2013 - Nov' 2016)
- **Research and Development Cell Coordinator** (Academic Year 2015-2017)
- News Letter (Blossom) **Associate Editor** (Academic Year 2015-2017)
- **ICT Academy Coordinator** (2017-tilldate)

SHORT TERM COURSES:

- Conducted one month Part time evening course in “**C Language**” for first year engineering students in Vivekanandha College of Engineering for Women.
- Conducted one month Part time evening course in “**Data Structures**” for Third year MCA students in Vivekanandha Institute of Information and Management Studies for Women.

PLACEMENT RELATED ACTIVITIES:

- Conducted one week course on “**Operating Systems**”for the III YEAR Bio-Tech, EEE, ECE & MCA Students in Vivekananda College of Engineering for Women.

- Conducted a seminar on “**Data Structures and Algorithms**” for III YEAR Bio-Tech, EEE, ECE & MCA Students in Vivekananda College of Engineering for Women.
- Conducted a seminar on “**Mock Interview**” for final year students in Vivekananda College of Engineering for Women.

PROGRAM ORGANISED:

- Organised a software contest and association inauguration – “ZEALTECH ’09” on September 2010.
- Organised the PROJECT EXPO’11 at Vivekananda College of Engineering for Women on Jan’06, 2011.
- Editorial Desk Member for International Conference on ICRA TEMS’11 at Vivekanandha College of Engineering for Women.
- Editorial Desk Member for International Conference on ICCET-2014 at Vivekanandha Institute of Engineering and Technology for Women.
- Executive committee Member of International Conference on ICCET-2015 at Vivekanandha Institute of Engineering and Technology for Women.
- Executive committee Member of International Conference on ICCET-2016 at Vivekanandha Institute of Engineering and Technology for Women.
- Organized the Faculty Development Programme on “Teaching Pedagogy and ICT” at Vivekanandha Institute of Engineering and Technology for Women, Tiruchengode, during 21.12.2015 - 22.12.2015.
- Organized National Conference on Bio-Informatics in Healthcare using Big Data at Vivekanandha College of Engineering for Women, Tiruchengode, during 09.08.2017 - 10.08.2017.

Publication in International Journals

- E. Menaka, Dr.S.Suresh Kumar, “Forest Fire Detection Using Texture Analysis”, International Journal of Computer Applications in Engineering Sciences [IJCAES], VOL I, ISSUE I, pp. 64-68, March 2011.
- E. Menaka, Dr. S.Suresh Kumar, “Forest Fire Detection Using Texture Analysis”, International Journal of Recent Trends in Engineering and Technology [IJRTET], Vol. 6, No. 1, Nov 2011, pp. 40 – 43, Digital Object Identifier: 01.IJRTET.6.1.505.

- E. Menaka, Dr. S.Suresh Kumar, M. Bharathi, “Evaluation of Deforestation using WatershedAlgorithm”,IRACST – Engineering Science and Technology: An International Journal (ESTIJ), ISSN: 2250-3498, Vol.2, No. 2, April 2012, pp. 336-339.
- E. Menaka, Dr. S.Suresh Kumar, N. Parameshwari, “Segmentation of Dry Forest Region using Watershed Algorithm”, International Journal of Computer Science and Information Technology & Security (IJCSITS), ISSN: 2249-9555, Vol. 2, No.3, June 2012, pp.588-592.
- E. Menaka, Dr. S. Suresh Kumar, M. Bharathi, “Accuracy Assessment of Cloud Reconstruction Approaches using Segmentation”, International Journal of Innovation and Applied Studies, ISSN 2028-9324, Vol. 3 No. 1 May 2013, pp. 112-115
- Archana. J, Bavithra. R, Jothilakshmi. M, Meena. M, Menaka.E, “Critical Event Monitoring in WSN using Cluster Based CCDS”, Journal of Information and Computing Science, Vol. 8, No. 3, 2013, pp. 235-240, ISSN 1746-7659, England, UK.
- Suganya. M, Menaka. E, “Various Segmentation Techniques in Image Processing: A Survey”, International Journal of Innovative Research in Computer and Communication Engineering, Vol.2, Special Issue 1, March 2014, pp. 1048-1052, ISSN(Online): 2320-9801, ISSN (Print): 2320-9798.
- Menaka E, Suresh Kumar S, “Improving segmentation accuracy for detecting tree crown using marker control watershed with sobel edge detection from Lidar imagery”, International Journal of Applied Environmental Science, Vol-9, Issue-6, pp.2879-2889, 24.12.14. (Impact factor is 0.104)
- Menaka E, Suresh Kumar S, “Analysis deforestation using threshold based clustering algorithm”, International Journal of Applied Engineering Research, Vol-9, Issues 23, pp. 21031-21054, 20.12.14.(Impact factor is 0.13)
- Menaka E, Suresh Kumar S, “Cloud removal using efficient cloud detection and removal algorithm for high-resolution satellite imagery”, Int. J. Computer Applications in Technology, Vol. 51, No. 1, pp. 54-61, 2015. (Impact factor is 0.28)
- Menaka E, Suresh Kumar S, “Improving segmentation accuracy for detecting deforestation using texture feature derived from Landsat 8 OLI multispectral imagery”, European Journal of Remote Sensing, Vol. 48, pp. 169 – 181, 2015. doi: 10.5721/EuJRS20154810. (Impact factor is 0.71)
- Menaka E, “Overview on Multicasting in Overlay Networks”, International Journal of Mathematical science and Engineering, Volume – 4, Issue-2; December 2015; Page: 62-69, ISSN 2278 – 1447.
- C. Vigundhiya and E. Menaka, ‘Flow Control With Data Compression To Avoid Overload In Networks’, Middle-East Journal of Scientific Research 24 (Techniques and Algorithms in Emerging Technologies): 156-161, 2016, ISSN 1990-9233;

- S.Kanmani, G.Kiruthika, C.Vigundhiya, E.Menaka, 'Overview on Multicasting in Overlay Networks', International Journal of Mathematical Sciences and Engineering (IJMSE), Volume – 4, Issue-2, December 2015.
- C. Vigundhiyaa, E. Menaka, 'Virtual Routing Flow Control with Data Compression for Networks', South Asian Journal of Engineering and Technology Vol.2, No.15 (2016) 124–129.
- D. Sharmila and E. Menaka, 'Scheduling Based Broadcasting Delay Overcome in Wireless Network', Middle-East Journal of Scientific Research 24 (Techniques and Algorithms in Emerging Technologies): 188-192, 2016.
- G. Kiruthika and E. Menaka, 'Multi File Process Conformation in Network Overlays', Middle-East Journal of Scientific Research 24 (Techniques and Algorithms in Emerging Technologies): pp.79-83, 2016, ISSN 1990-9233.
- D. Sharmila, E. Menaka, 'Broadcasting Delay Avoidance with Advance Network Code by constrained traffic over unreliable Wireless Link', South Asian Journal of Engineering and Technology Vol.2, No.15 (2016) 136–144.
- G. Kiruthika and E. Menaka, 'Network Overlay Delay Avoidance by Virtual Routing', South Asian Journal of Engineering and Technology Vol.2, No.15 (2016), pp. 111–115, ISSN No: 2454-9614.
- HaobijamJina Devi and E. Menaka, 'Random Key Updation for Certificateless Remote Authentication Protocol', Middle-East Journal of Scientific Research 24 (Techniques and Algorithms in Emerging Technologies): 215-219, 2016.
- HaobijamJina Devi, E.Menaka, 'Random Key Updation in WBAN usingCertificatelessRemote Authentication ProtocolwithAnonymity Domain: Network Security', International Journal of Advanced Engineering and Recent Technology, Vol. 6, Issue. 1 April 2016, pp. 38-45.
- D.R.Pavithra, C.Kanchana, E.Menaka, T.R.Srinivasan, 'Liberating the Structure from Its Torrent Management Disaster', International Journal of Mathematical Sciences and Engineering (IJMSE), Volume – 5, Issue-2, March 2017.
- P.Shri Janani, S.Saranya, T.R.Srinivasan, E.Menaka, 'Off-Line Secure Micro Payments Using Frodo Resilient Device', International Journal of Mathematical Sciences and Engineering (IJMSE), Volume – 5, Issue-2, March 2017.
- D. R. Pavithra and E. Menaka, "Enabling the Structure from Its Packet Flow Disaster", International Journal of Advance Research and Development, Volume 2, Issue 6, pp. 7-11, 2017.
- Saranya .S, and E. Menaka, 'A Pairwise Algorithm using Speech Separation and Pitch Estimation for the Deep Stacking Network', International Journal of Advance Research and Development, Volume 2, Issue 6, pp. 7-11, 2017.

Publication in International Conferences

- E. Menaka, Dr. S. Suresh Kumar, “Forest Fire Detection Using Texture Analysis”, in the Proceedings of the International Conference on ICRA TEMS2011, 2011.
- E. Menaka, Dr. S. Suresh Kumar, N. Parameshwari, “Assessment of Sparse Forest and Fire Detection using Threshold Watershed Algorithm”, in the Proceedings of the International Conference on SEISCON12, 2012 & IET digital Library.
- E. Menaka, Dr. S. Suresh Kumar, M. Bharathi, “Change Detection in Deforestation Using High Resolution Satellite Image with Haar Wavelet Transforms”, in the Proceedings of the International Conference on Green High Performance Computing ICGHPC 2013 & IEEE digital Library.
- Angayarkanni. D, Menaka. E, “Mobile Authentication using QR code”, at Immanuel Arasar JJ College of Engineering, on 22/01/2014.
- Hemapriya. V, Menaka. E, “Reliable Segmentation of Forest Areas and Detection of Tree Crown in LIDAR images”, at Immanuel Arasar JJ College of Engineering, on 22/01/2014.
- Angayarkanni. D, Menaka. E, “A Transitive Authentication protocol for establishing Conference Key using QR Code” at Aishwarya College of Engineering and Technology on 12/02/2014.
- Suganya. M, Menaka. E, “Various Segmentation Techniques in Image Processing: A Survey”, in the proceeding of International Conference on Global Innovations and Computing Technology, at Jai Sriram College of Engineering on 6-7, March 2014.
- Angayarkanni. D, Menaka. E, “A Novel Transitive Authentication Using QR Code”, in the Proceeding of International Conference on “Computing, Communication and Electrical Technologies”– 2014 at Vivekanandha Institute of Engineering and Technology for Women, Elayampalayam, Tiruchengode – 637 205, Namakkal Dt., Tamil Nadu, India, pp. 32-36.
- Suganya. M, Menaka. E, Dr. S. Suresh Kumar, “Accuracy Assessment of Forest Cover Map using Segmentation”, in the Proceeding of International Conference on “Computing, Communication and Electrical Technologies”– 2014 at Vivekanandha Institute of Engineering and Technology for Women, Elayampalayam, Tiruchengode – 637 205, Namakkal Dt., Tamil Nadu, India, pp. 211-216.
- Hemapriya. V, Menaka. E, Dr. S. Suresh Kumar, “Reliable Segmentation of Forest Areas and Detection of Tree Crown In Lidar Images”, in the Proceeding of International Conference on “Computing, Communication and Electrical Technologies”– 2014 at

Vivekanandha Institute of Engineering and Technology for Women, Elayampalayam, Tiruchengode – 637 205, Namakkal Dt., Tamil Nadu, India, pp. 217-224.

- D. Sharmila and E. Menaka, ‘Broadcasting Delay Avoidance with Advance Network Code by Constrained Traffic over Unreliable Wireless Link’, in the Proceeding of International Conference at Nandha College of Technology on 04.03.2016 & 05.03.2016.
- G. Kiruthika and E. Menaka, ‘Network Overlay Delay Avoidance by Virtual Routing’, in the Proceeding of International Conference at Nandha College of Technology on 04.03.2016 & 05.03.2016.
- C. Vigundhiyaa, E. Menaka, ‘Virtual Routing Flow Control with Data Compression for Networks Overload’, in the Proceeding of International Conference at Nandha College of Technology on 04.03.2016 & 05.03.2016.
- HaobijamJina Devi and E. Menaka, ‘Random Key Updation for Certificate less Authentication Protocol with Anoximity in WBAN’, in the Proceeding of International Conference at K.S.RangasamyCollege of Technologyon 05.03.2016.
- C. Vigundhiyaa, E. Menaka, ‘Flow Control with Data Compression To Avoid Overload In Networks’, in the Proceeding of 3rd International Conference on Computing, Communication and Electrical Technologies -ICCCET-2016 at Vivekanandha Institute of Engineering and Technology for Women, Elayampalayam, on 30th & 31st March 2016.
- HaobijamJina Devi and E. Menaka, ‘Random Key Updation in Wban using Certificateless Remote Authentication Protocol with Anonimity’, in the Proceeding of 3rd International Conference on Computing, Communication and Electrical Technologies -ICCCET-2016 at Vivekanandha Institute of Engineering and Technology for Women, Elayampalayam, on 30th & 31st March 2016.
- D. Sharmila and E. Menaka, ‘Scheduling Based Broadcasting Delay Overcome in Wireless Network’, in the Proceeding of 3rd International Conference on Computing, Communication and Electrical Technologies -ICCCET-2016 at Vivekanandha Institute of Engineering and Technology for Women, Elayampalayam, on 30th & 31st March 2016.
- G. Kiruthika and E. Menaka, ‘Multi File Process Conformation in Network Overlays’ in the Proceeding of 3rd International Conference on Computing, Communication and Electrical Technologies -ICCCET-2016 at Vivekanandha Institute of Engineering and Technology for Women, Elayampalayam, on 30th & 31st March 2016.

PROCEEDINGS OF NATIONAL CONFERENCES:

- “Character Recognition Using Super Impose Technique” in the Third National conference on Advanced Development in Network & Intelligent Computing in Adhiyamaan College of Engineering, Hosur on 1st& 2nd March 2006.
- “Character Recognition Using Super Impose Technique” in the National conference on Recent Trends in Information Technology in Kamaraj College of Engineering and Technology, Virudhunagar on 5th April 2006.
- “Network Security” in the National conference on Emerging Trends in Information Technology in Vivekanadha Institute of Information and Management Studies, Tiruchengode on 3rd March 2007.
- “Face Recognition” in the National conference on Computational Intelligence and Network Security in Vivekanadha College of Engineering for Women, Tiruchengode on 7th March 2007.
- Presented Paper on “Character Recognition Using Texture Analysis” in National Conference- NCAC3S 2010, Vivekanadha College of Engineering for Women, Tiruchengode on 1-2 April 2010.
- Presented Paper on “Color Image Quantization Algorithm of K – Means Clustering Collection” in National Conference- N3CT2010, Surya Engineering College, Erode.
- Presented a Paper on “Effective Forest Fire Detection Using Polygon Segmentation”- NICORP2010, at Kongunadu Engineering College, Trichy on 17 Sep 2010.
- Presented a Paper on “Forest Fire Detection Using Segmentation” in NCICT2K11, at SSM College of Engineering, Vallayakaranur, Komarapalayam, Feb 4, 2011.
- Presented a Paper on “TFA Using Mobile Phones” in NCICT2K11, at SSM College of Engineering, Vallayakaranur, Komarapalayam, Feb 4, 2011.
- Presented a Paper on “Effective Forest Fire Detection Using Texture Analysis” in National Conference On Emerging Issues In Computer Applications - EICA 11, at K.S.R. College of Engineering, Tiruchengode, Feb 10, 2011.
- Presented a Paper on “Two Factor Authentication Using Mobile Phones” in National Conference On Emerging Issues In Computer Applications, at K.S.R. College of Engineering, Tiruchengode, Feb 10, 2011.

- Presented a Paper on “Tamil Character Recognition using 2D² Principal Component Analysis” in National Conference on Microwave, Antenna & Signal Processing, at ITS Engineering College, Noida, April 22-23, 2011.
- Presented a Paper on “Healthcare Bioinformatics in Human Genome” in National Conference on Bio-Informatics in Healthcare using Big Data, at Vivekanandha College of Engineering for Women, Tiruchengode, 09th & 10th August 2017.

FDP, WORKSHOP & SEMINAR ATTENDED:

- Three days Seminar on “Knowledge Discovery in Database and Data Warehousing” at Kongu Engineering College, Erode, on December 2005.
- Two days SDP on “Future Direction in Mobile Computing” at Kongu Engineering College, Erode, May 2007.
- Two days FDP on “Teaching, Training, Research and Administration methodology” at Vivekanandha Institute of Information and Management Studies for Women, Tiruchengode, Aug 2007.
- Two days Seminar on “High Performance distributed computing” at Kongu Engineering College, Erode, on Nov 2007.
- Attended One day Workshop on “Image Processing Using MATLAB” at Vivekanandha College of Engineering for Women, Namakkal, on September 2008.
- Two days National Level Seminar on “Emerging Trends in Wireless Technologies” at Paavai Engineering College, Namakkal on April 2010.
- Attended One day Workshop on “Digital Image Processing”, at Vivekanandha Institute of Information and Management Studies for Women, Tiruchengode, Sep 7-8, 2010.
- One Day Workshop on “Life Skill Development” at Dr. M.G.R University, on 19th September, 2010.
- National Level Workshop on “Virtual Instrumentation Lab View Based Signal Processing & MultiSim based Electronics Circuits and Simulation Applications” at Vivekanandha College of Engineering for Women, Namakkal, on November 25-26, 2010.
- National Level Workshop on “Hands on training program of satellite Images” at Kongu Engineering College, Erode, on Sep 2-3, Sep 2011.

- International Seminar on “New Challenges in Knowledge Based Discovery” at Vivekanandha College of Engineering for Women, Tiruchengode, Sep 16-17, 2011.
- National Level Workshop on “Research methodology and techniques in Soft Computing” at K.S.R. College of Engineering, Tiruchengode, Sep 28, 2011.
- Participated Workshop on “Research Opportunities in Digital Image Processing in today’s Scenario” at Sona College of Technology, Salem on March 09, 2012.
- Participated in the Pact-Work Life Balance by Chinmaya Academy of Management, Chennai Chapter at Vivekanandha Institute of Engineering and Technology for Women on April 17, 2014.
- Participated in ICTACT BRIDGE 2014 - Salem Edition at Hotel Park Plaza, Salem on 17 Dec 2014.
- Participated the Workshop on “Intellectual Property Rights and Innovations” by CIPR, Anna University, Guindy at Vivekanandha Institute of Engineering and Technology for Women on November 11, 2015.
- Faculty Development Programme on “Teaching Pedagogy & ICT” by Centre of Excellence for Higher Education, Coimbatore at Vivekanandha Institute of Engineering and Technology for Women & Vivekanandha College of Technology for Women on December 21 & 22, 2015 and January 8 & 9, 2016 .
- Faculty Development Programme on “VMware vSphere 6.0 Skills” by ICT Academy at Vivekanandha Institute of Engineering and Technology for Women on October 17-21, 2016.
- National Level Workshop on “Data Mining in Biomedical Informatics Using Bigdata” Sponsored by CSIR at Vivekanandha Institute of Engineering and Technology for Women on November 25-26, 2016.
- Participated in ICT Academy Youth Leadership Summit 2017 at Codissia Trade Fair Complex, Coimbatore on August 23, 2017.
- Faculty Awareness Programme on “NBA/NAAC Accreditations Process” at Vivekanandha College of Technology for Women on September 01, 2017.
- Faculty Development Programme on “Salesforce Trailhead” by ICT Academy at KSR College of Technology, Thokkavadi on November 08-09, 2017.

MEMBERSHIP:

- ✓ IET MEMBER
- ✓ IAENG MEMBER
- ✓ SAGE MEMBER
- ✓ CSI MEMBER
- ✓ ISSE MEMBER

REVIEWER OF

- ❖ IET IMAGE PROCESSING
- ❖ JOURNAL OF ELECTRONIC IMAGING
- ❖ INTERNATIONAL JOURNAL OF BIOMEDICAL ENGINEERING
AND TECHNOLOGY

AWARDS:

YOUNG TEACHER AWARD from IET YMS CHENNAI