

CURRICULUM VITAE

Dr.A.AMSAVENI

Professor,
Dept.of ECE,
Kumaraguru College of Technology,
Coimbatore – 641 049

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OBJECTIVE:

To achieve academic excellence with sincerity and self-discipline and to motivate the students to do high quality research projects.

ACADEMIC RECORDS:

S. No.	Course Studied	Name of the Institution	Name of the University	Year of Passing	% of Marks / CGPA	Class
1.	Ph.D	P.S.G. College of Technology, Coimbatore	Anna University, Chennai	March 2016	-	-
2.	M.E (Applied Electronics)	Karunya Institute of Technology, Coimbatore	Bharathiar University, Coimbatore.	Dec 2002	9.27 (CGPA)	First Class With Distinction (Gold medal)
3.	B.E (ECE)	Kongu Engineering College, Perundurai	Bharathiar University, Coimbatore	April 1998	77%	First Class With Distinction

PROFESSIONAL EXPERIENCE: 22 Years 2 months

Sl. No	Name of the Institution	Designation	Years of Experience	Period of Working
1.	Kumaraguru College of Technology, Coimbatore-641 049	Professor	2 Years 10 months	1.12.2017 onwards
2.	Kumaraguru College of Technology, Coimbatore-641 049	Associate Professor	6 years and 2 months	01.10.2011 – 30.11.2017
3.	Kumaraguru College of Technology, Coimbatore-641 049	Assistant Professor (SRG)	1 year	01.10.2010 - 30.09.2011
4.	Kumaraguru College of Technology, Coimbatore-641 049	Senior Lecturer	5 years and 3 months	01.07.2005 - 30.09.2010
5.	Kumaraguru College of Technology, Coimbatore-641 049	Lecturer	2 years and 1 month	02.06.2003 - 30.06.2005
6.	Karunya Institute of Technology, Coimbatore-641 114	Lecturer	4 years and 9 months	24.08.1998 - 29.05.2003

Additional Responsibilities:

- **Department Tech Champion from May 2020 onwards**
- **Autonomous Exam Co-ordinator from June 2017 onwards**
- **Class advisor for II M.E Applied Electronics 2016-18 batch**
- **Faculty in-charge for the TI's Centre of Excellence (CoE) in Signal Processing & Embedded Systems**
- **Department Consultative Committee (DCC) member in the constitution of I Year DCC**
- **Mentor for UG (20 students of 2017-2021 Batch ECE 'A' section) and PG students (2016-18 Batch)**
- **Workload and Timetable Co-ordinator from April 2016 to November 2017.**
- **Electronics Circuits lab in-charge from June 2006 to June 2017.**
 - Upgraded the lab with new equipment's
 - Prepared new lab manual
 - Serviced the equipment's as required
- **Career Counselor for Electrical Sciences during Admission process in the year 2016-17.**
- **Department NBA Co-ordinator from March 2014 to Dec 2015.**
- **Class advisor for 2009-13 batch UG students ('B' Sec)**
- **Course Co-ordinator for M.E Applied Electronics for the academic year 2015-16**
- **DAB Meeting In-Charge and Organized the meeting four times**
- **Module Co-ordinator for the module 'Signal Processing' from June 2015 to Nov 2016 and for the module 'RF Communication' from Dec 2016 onwards.**
- **BoS Co-ordinator for the academic year 2015-16**
- **Parents Meeting Co-ordinator for the academic year 2015-16**
- **Member of BOS of the Department- Framing Autonomous curriculum and syllabus**
- **Staff coordinator for Students Technical Symposium DIGITALK'13**
- **Mini project coordinator from the academic year 2007-08 to 2011-12 and conducted competitions every year.**
- **Prepared Power point presentation for the NBA committee inspection held on July 2012**
- **Department Examination coordinator from June 2007 to June 2010 and from June 2013 to May 2014.**
- **Member of college magazine editorial board from June 2004 to May 2006.**
- **Student forum staff in-charge (Department representative) from June 2010 onwards**
- **Member of Department Disciplinary Committee**
- **Students grievances cell in-charge (Department Level)**

List of National Conferences/Workshops/FDP/Guest lectures Organized:

1. Organized a 5 Day Online IEEE AP-S Lecture Series on **‘Future Antenna Technologies’** from 10.08.2020 -14.08.2020
2. Organized one day webinar on **‘Network Security: Certifications and Job Opportunities’** on 27.06.2020
3. Organized 3 day webinar series on **‘Trends in IoT and Automation’** from 10.06.2020 to 13.06.2020
4. Organized IEEE AP-S Seminar and Poster Session on **‘Antennas’** on 17.08.2018
5. Organized a **National Conference on Communication, Information Technology and Electronics (CITEL 2018)** on 09.4.2018 and 10.4.2018.
6. Organized a **Guest Lecture** on **‘Statistical Signal Processing’** For III ECE students on 20.11.2017.
7. Organized a **motivational talk** on, **‘Future Engineering Careers’** for II year ECE students on 02.11.2017.
8. Organized a **two day Hands-on workshop** on **‘Embedded Systems and IoT Applications’** for ECE students on 06.10.2017 and 07.10.2017.
9. Organized an **awareness Program** on **‘India Innovation Challenge contest (TI Contest)’** for ECE Students on 08.08.2017.
10. Organized a three day **Faculty Development Program (FDP)** on **‘IoT and its Applications’** from 03.05.2017 to 05.05.2017. (Texas Instruments University Program)
11. Organized a Two day **Faculty Development Program(FDP)** on **‘MSP Microcontrollers and its applications’** (Texas Instruments University Program) for faculty members on 17.02.2017 & 23.02.2017
12. Organized **Three day Hands-on Workshop** on **‘Basic Embedded Systems Design Using Arduino’** from 15.09.2016 -17.09.2016 (Phase-I) & 19.09.2016-21.09.2016 (Phase-II) for II ECE students.
13. Organized **Two Day Hands-on Workshop** on **‘Signal/Image Processing Using MATLAB and Raspberry-Pi Implementation’** from 23.02.2016 to 24.02.2016.
14. Organized a **Guest lecture** on **‘DSP Architecture’** for III ECE (A, B & C sec) students on **06.10.2016**. Guest speaker: Dr. N. Kavitha, Director, Steps Knowledge Services Pvt Ltd, Coimbatore
15. **Organized a Guest lecture** on **‘DSP and its Applications’** for III ECE (A,B & C sec) students on **Oct 2015**. Guest speaker: Dr.P.T.Vanathi, Asso.Prof/ECE, PSG College of Technology, Coimbatore.
16. Organized IEEE **Seminar** on **‘Antennas and Microwaves and Poster Session for Students’** in association with IEEE Antennas and Propagation Society (AP-S), Madras

Chapter and IEEE Microwave Theory and Techniques Society (MTT-S), Madras Chapter on 09.05.2014.

17. Organized a **National conference** on ‘**Innovations in Signal Processing, Embedded Systems and Communication Technology (SPECT 2012)**’ on 22.03.2012.
18. Organized a **Faculty Development program** on ‘**Optical Communication Laboratory**’ on 06.05.2011.
19. Organized One day **National workshop** on ‘**Digital Communication & Networking (DICNET 06)**’ on 11.02.2006.

Awards/Honors:

1. **Received BEST PAPER AWARD** for the paper presented in 30th GISFI Standardization Series Meeting and IEEE 5G Summit, 16-17 November 2017, SRM University, Kattankulathur, Chennai.
2. Received the following awards during Teacher’s day Celebration on 01.09.2017
 - **KCT Achiever – Best Faculty - Departmental Contributor**
 - **KCT Achiever for Setting up Industry and related laboratories**
 - **Decennial Award**
3. **Advisory Committee Member** in **International Journal of Pure Applied Mathematics (Scopus Indexed Journal)**
4. **Active Reviewer** in Wireless Personal Communication, Springer, Netherland.
5. **Active Reviewer** in Circuits and Systems, Scientific Research, UK
6. **Ph.D Awardee Recognition** during the academic year 2015-16.
7. **Received ‘KCT Achievers 2015-16’ award for Publication in International Journals** during the academic year 2015-16.
8. Rated as **Outstanding faculty** during the academic year 2014-15.
9. **Received ‘KCT Achievers 2014-15’ award for Publication in International Journals** during the academic year 2014-15.
10. Rated as **Highly Competent faculty** during the academic years 2013-14 & 2015-16.
11. **Received Best Volunteer** award from IEEE Antenna Propagation Society (AP-S),USA in 2014
12. Under my **guidance**, student project titled, “Vision based Inter vehicle distance estimation & speed detection for collision mitigation system” won **Best Project award** from KCT Management during the academic year 2012-13.
13. Under my **guidance**, the project titled, “Smart Mobility System for Physically Challenged” won **I Prize (Rs.75,000/-)** in the National Level Autonomous Embedded System Design Contest (**NIYANTRA 2012**) conducted by National Instruments, India at Chennai on 17.10.2012.

Book Published:

Published a book titled “**Antennas and Wave Propagation**” for Anna University & Jawaharlal Nehru University syllabus requirements in the year 2006. **ISBN No: 978-81-8472-247-5**

Funding / Grant Received:

1. Received a grant of **Rs.40, 000/-** from **RESPOND, ISRO, Bangalore** for conducting National conference on “Innovations in Signal Processing, Embedded Systems and Communication Technology (SPECT 2012) ” on March 22nd , 2012.
2. Received a Sponsor amount of **Rs.25,000/-** from **Robert Bosch engineering and Business Solution Ltd** for conducting National conference on “Innovations in Signal Processing, Embedded Systems and Communication Technology (SPECT 2012) ” on March 22nd , 2012
3. Received an amount of **Rs.10,000/** for **TNSCST Project under Students project scheme** during the academic year 2012-13, for the project titled ‘Smart Mobility system for physically challenged’.
4. **Sanctioned** with KCT Management Funded Proposal titled, “**A Novel Low SAR Multiband Patch Antenna for Smartphone Applications**” during the academic year 2016-17.(Project cost: Rs.1.15 Lakhs)

Funding Applied

1. Applied a Research proposal titled “**Investigation on Reversible Data Hiding Using Chaotic and 2D Logistic Encryption**” to **SERB –DST** under EMR Scheme (Principal Investigator) on 15th July 2016.
2. Applied a Research proposal titled “**Reduction of Self Heating Effect for High Power Amplifier in Mobile Towers**” to **SERB –DST** under EMR Scheme (Co-Principal Investigator) on 26th July 2016.Result:
3. Applied a Research proposal titled “**Investigation on Compact Wearable Antenna for Medical Applications**” to **SERB –DST** under EMR Scheme (Principal Investigator) on 31st July 2017.
4. Applied for a Seminar Grant on “**Design and Development of wearable antennas**” to UGC, New Delhi.
5. Applied a FDP Proposal on “**Wearable Technologies for sustainable enhancement of quality of life**” to AICTE, New Delhi.

Consultancy:

- Mr.V.P.Ajay, **Dr.A.Amsaveni**, Mr.David and Mr.S.M.Chandru have been sanctioned with a consultancy project (Load Test Kit for Service Inspection of JCB’s) from Bull India Pvt Ltd, Coimbatore in the month of June 2017. The project is completed.

List of Guest Lectures Delivered:

1. Acted as Resource Person in Anna University sponsored **Faculty Development Program and delivered the lecture on ‘Antennas’** at Sri Subramanya college of Engineering and Technology, Palani on 23.11.2006.
2. Delivered a Guest Lecture on **“Large Signal Amplifiers”** at Angel college of Engineering, Tiruppur.
3. Delivered a Guest Lecture on **“Radio Wave Propagation ”** at Sri Eswar College of Engineering, Coimbatore on 04.01.2011
4. Delivered a Guest Lecture on **“Applications of Antennas and Radio Wave Propagation”** at Angel college of Engineering, Tiruppur on 05.03.2011
5. Delivered a Guest Lecture on **“Radio Wave Propagation”** at Angel college of Engineering, Tiruppur on 08.04.2013.
6. Acted as Resource Person in Anna University sponsored **Faculty Development Program and delivered the lecture on ‘Antenna Simulation Tool - HFSS’** at Dr.NGP College of Engineering and Technology, Coimbatore on 11.12.2016.
7. Delivered a Guest Lecture on **“Network and System Security”** at SNS College of Engineering, Coimbatore on 23.03.2017.
8. Delivered a Guest Lecture on **“Applications of EM Waves and Health Hazards of EMR”** at Bannariamman Institute of Technology, Sathyamangalam on 29.03.2017.
9. Delivered a Webinar on **‘Security Issues and Solutions to cyber threats in IoT’** at DJ Sanghvi College of Engineering, Mumbai on 06.07.2020
10. Delivered a FDP Session on **‘Antenna array and its applications’** at K.Ramakrishna College of Technology,Trichy on 09.06.2020.
11. Delivered a IEI Chapter National online seminar on **‘Antenna Basics and Design concepts’** at Kumaraguru College of Technology on 12.06.2020.
12. Delivered a FDP Session on **‘Concepts of Antenna array and its applications’** Savitha Engineering College,Chennai on 24.06.2020
13. Delivered a FDP Session on **‘Antenna Design for 5G Systems’** at KGISL Institute of Technology on 02.07.2020

Membership in Professional Bodies:

- Life Member in Indian Society for Technical Education (LMISTE)

MOOC Courses:

1. Completed NPTEL online course titled ‘Discrete Time Signal Processing’ on September 2016. *Grade: Elite*
2. Completed NPTEL online course titled ‘Antennas’ on April 2017. *Grade: Elite*
3. Completed NPTEL online course titled ‘Digital Image Processing of Remote Sensing Data’ on September 2018. *Grade: Elite*
4. Completed NPTEL online course titled ‘Electromagnetic Compatibility, EMC’ on September 2019. *Grade: Elite Silver Medal*
5. Completed NPTEL online course titled ‘Internet of Things(IoT)’ on May 2020

List of Publications in International Journals:

1. Bharathi, M., Amsaveni, A., Sasikala,S (2019). ‘Orthogonal frequency division multiplexing for improving the performance of terahertz channel’ Journal of Infrared and Millimeter Waves, Vol.38, No.3 , pp.263-266, 2019
2. A. Amsaveni, M. Bharathi, P.J.Phavithra (2018), ‘Gain Enhancement of a Square Patch Antenna using EBG Structure’, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-8 Issue-2S, 397-400, ISSN: 2278-3075(**Scopus Indexed Journal**)
3. M.Bharathi, A.Amsaveni, B. Manikandan, ‘Speed Breaker Detection Using GLCM Features’, Volume-8 Issue-2S, 384-389, ISSN: 2278-3075 (**Scopus Indexed Journal**)
4. A. Amsaveni, M. Bharathi, J. N. Swaminathan, ‘Design and performance analysis of low SAR hexagonal slot antenna using cotton substrate’, Microsystem Technologies,<https://doi.org/10.1007/s00542-018-4109-6>. (**Anna University Annexure journal, Scopus Indexed**)
5. M. Bharathi, A.Amsaveni, S. Ravishankar, ‘Extraction of two wire Loop topology using Hybrid Single Ended Loop Testing’, Journal of Microelectronics, Electronic Components and Materials, Vol. 48, No. 1(2018), 41 – 52. (**Anna University Annexure journal, Scopus Indexed**)
6. Bharathi Mayilswamy, Amsaveni Avinashiappan, ‘Performance estimation and analysis of power line communication using single-ended loop testing’, Turk J Elec Eng & Comp Sci(2018) 26: 2029 – 2042,doi:10.3906/elk-1712-65(**Anna University Annexure journal, Scopus Indexed**)

7. A. Regi Saral, V. Lavanya, **A. Amsaveni** (2018), 'A Triangular Patch Antenna for Wireless Applications', International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE), Volume 7, Issue 3, pp.227-231,ISSN: 2278 – 909X.
8. **Amsaveni, A**, Vanathi, PT (2017), 'Reversible Data Hiding Based on Radon and Integer Lifting Wavelet Transform', Journal of Microelectronics, Electronic Components and Materials, Vol. 47, No. 2, 90 – 98, ISSN:2232-6979 (**Anna University Annexure journal, Scopus Indexed**)
9. **Amsaveni, A**, Anusha,K (2017), 'A Circularly Polarized Triangular Slot Reconfigurable Antenna for wireless applications', International Journal of Pure and Applied Mathematics, Vol. 116, No. 11, 81-89, ISSN:1311-8080 (**Scopus Indexed Journal**)
10. Premalatha P, **Amsaveni, A** (2017), 'Data hiding in a digital image with FPGA implementation' IEEE Xplore Digital Library, ISBN:978-1-5090-4556-3
11. **Amsaveni, A**, Vanathi, PT (2015), 'A comprehensive study on image steganography and steganalysis techniques', International Journal of Information and Communication Technology, vol. 7, no. 4/5, pp. 406-424, ISSN: 1741-8070 .
12. **Amsaveni, A**, Vanathi, PT (2015), 'An Efficient Reversible Data Hiding Approach for Color Images Based on Gaussian Weighted Prediction Error Expansion And Genetic Algorithm', International Journal of Advanced Intelligence Paradigms, vol. 7, no. 2, pp. 156-171, ISSN: 1755-0394.
13. **Amsaveni, A**, Arunkumar, C (2015), 'An efficient data hiding scheme using firefly algorithm in spatial domain' IEEE Xplore, pp-650 – 655, ISBN: 978-1-4799-7224-1.
14. **Amsaveni, A**, Angel Lissy George 2014,'Diagnosis of Wilson Disease by Support Vector Machine based on GLCM Features' International Journal of Advance Research in Computer Science and Management Studies , Volume 2,Issue 1,pp.662-668,2014(Impact Factor:1.125)
15. **Amsaveni,A** Punithalatha.M (2013), 'Reversion-based Features Video Steganalysis for Images and Image Fusion Technique using Fuzzy Logic', International Journal of Computer Applications, pp:15-22,ISSN:0975 – 8887.
16. Kalpana,M , **Amsaveni, A** (2012),'Comparison of Error Tolerant Method in AES for Wireless Communication" Bonfring International Journal of Advances in Image Processing, Vol.2, special issue I, Part 2, pp. 52-57, ISSN: 2277-503X.
17. Priya,S, **Amsaveni, A** (2012) 'Edge Adaptive Image Steganography in DWT Domain' Bonfring International Journal of Research in Communication Engineering, Vol.2, special issue I, Part 2, pp. 91-94,2012, ISSN:2250-110X.
18. Madheswari, M, **Amsaveni, A** (2010) 'FPGA Implementation of Data Encryption / Decryption using Scalable Encryption Algorithm' International Journal of Embedded System & Computer Engineering, Vol.2,Issue.1,pp.5-10, 2010,ISSN: 0975-4482.

List of Publications in National / International Conferences :

1. Presented a Poster titled '**Medical Applications Using Antenna**' at Kumaraguru College of Technology, Coimbatore in IEEE AP-S Seminar on 17.08.2018.
2. Phavithra. P. J, **Amsaveni. A**, 'EBG Array Based Wearable Antenna For Gain Improvement' National Conference on Communication, Information Technology and Electronics (CITEL '18), April 2018,
3. **Amsaveni A**, Anusha K, Praveen R(2017), "Overview of 5G Technology", Proceedings of 30th GISFI Standardization Series Meeting and IEEE 5G Summit, 16-17 November 2017, SRM University, Kattankulathur, Chennai, Vol. 2,pp.10-13.(Received **BEST PAPER AWARD**)
4. **Amsaveni A**, Anusha K (2017), "A Circularly Polarized Triangular Slot Reconfigurable Antenna for wireless applications' International Conference on Science, Technology and Engineering Promotion(i-STEP), Kumaraguru College of Technology, Coimbatore
5. **Amsaveni A**, Lavanya,V (2017), "A Compact Hexagonal Slot Wideband Antenna for WLAN / WiMAX Applications", Proceedings of International Conference on IoT, Data Sciences and Security (ICIDS'17), PSG College of Technology, Coimbatore.
6. **Amsaveni A**, Regi saral,A (2017), "A Circularly Polarized Triangular Patch Antenna for Wireless Applications", Proceedings of International Conference on IoT, Data Sciences and Security (ICIDS'17), PSG College of Technology, Coimbatore.
7. Dhasharathi R, **Amsaveni A**, Arunkumaran GP (2016),"Reversible Data Hiding using Chaotic and 2D Logistic Encryption", Proceedings of International Conference on Communication and Security (ICCS-2016), Pondicherry Engineering College, Pondicherry.
8. **Amsaveni A**, Dhasharathi R (2016), "Chaotic and 2D Logistic Encryption based Reversible Data Hiding", Proceedings of 3rd IEEE International Conference on Innovations in Information, Embedded and Communication Systems(ICIEIECS'16),Karpagam College of Engineering, Coimbatore.
9. Premalatha P, **Amsaveni A** (2016), "Data Hiding in a Digital Image with FPGA implementation", Proceedings of 3rd IEEE International Conference on Innovations in Information, Embedded and Communication Systems(ICIEIECS'16), Karpagam College of Engineering, Coimbatore.
10. **Amsaveni A**, Arunkumar, C (2015), "An efficient data hiding scheme using firefly algorithm in spatial domain" Proceedings of IEEE 2nd International Conference on Electronics and Communication System(ICES 2015), Karpagam College of Engineering, Coimbatore.

10. Shrihari P, **Amsaveni A**, Vanathi PT (2015), “Reversible Data hiding based on DWT and Slantlet Transform”, Proceedings of the 2nd IEEE International Conference on Knowledge Collaboration in Engineering, Kathir college of Engineering, Coimbatore.
11. **Amsaveni A**, Vanathi PT, Kanchanadevi P (2014), “Joint Data Hiding and compression scheme using VQ, SMVQ and Inpainting”, Proceedings of the National Conference on Research in Wireless Communication Systems and VLSI Design (NCWCV-14), PSG College of Technology, Coimbatore.
12. **Amsaveni A**, Vanathi, PT, Revathi, AS (2014), “Prediction Error Expansion Based Reversible Data Hiding for Color Images Using Cross Channel Correlation”, Proceedings of the National Conference on Communication, Information and Telematics (CITEL), Kumaraguru College of Technology, Coimbatore.
13. **Amsaveni A**, Vanathi PT, Revathi A S (2014), “Location map based Reversible data hiding using Histogram shifting”, Proceedings of the National Conference on Research in Wireless Communication Systems and VLSI Design (NCWCV-14), PSG College of Technology, Coimbatore.
14. **Amsaveni A** (2014), “Detection of K-F ring using feature extracted from Gabor filters and diagnosis using Neural Networks” , Proceedings of the National Conference on Innovations in Information and Communication Technologies, Sri Krishna College of Technology,Cbe.
15. Angel Lissy George, **Amsaveni A** (2014),’ Ocular Biometric Measurements to diagnose Neurological disorders due to Wilson disease’ National Conference on Communication, Information and Telematics(CITEL 2014), Kumaraguru College of Technology, Coimbatore.
16. **Amsaveni A** , Vanathi PT (2013), “High Capacity Multiple Reversible Watermarking on Medical Images”, Proceedings of the International Conference on Intelligent and Efficient Electrical Systems (ICIEES’13), PSG College of Technology, Coimbatore.
17. Punithalatha M, **Amsaveni A** (2013), “An Efficient Video Steganalysis Scheme Using Motion Vector Reversion- Based Features”, Proceedings of the 4th National Conference on Innovations In Information Technology (NCIIT 2013), Sathyamangalam.
18. **Amsaveni A** , Punithalatha M (2013), “Reversion- Based Features Video Steganalysis for Images and Image Fusion Technique Using Fuzzy Logic”, Proceedings of the International Conference on Innovation in Intelligent Instrumentation, optimization and Signal Processing (ICIIOS’ 13), Coimbatore.
19. **Amsaveni A**, Punithalatha, M (2013), “Reversion- Based Features Analysis Video Steganalysis Scheme Using Motion Vector”, Proceedings of the National Conference on Computing and Communication Technologies (NCCCT’ 13), Coimbatore.
20. Deepthimaris B, **Amsaveni A** (2013), “Detection and Feature extraction of abnormal vessels in diabetic retinopathic images by region based segmentation” Proceeding of the Internnational

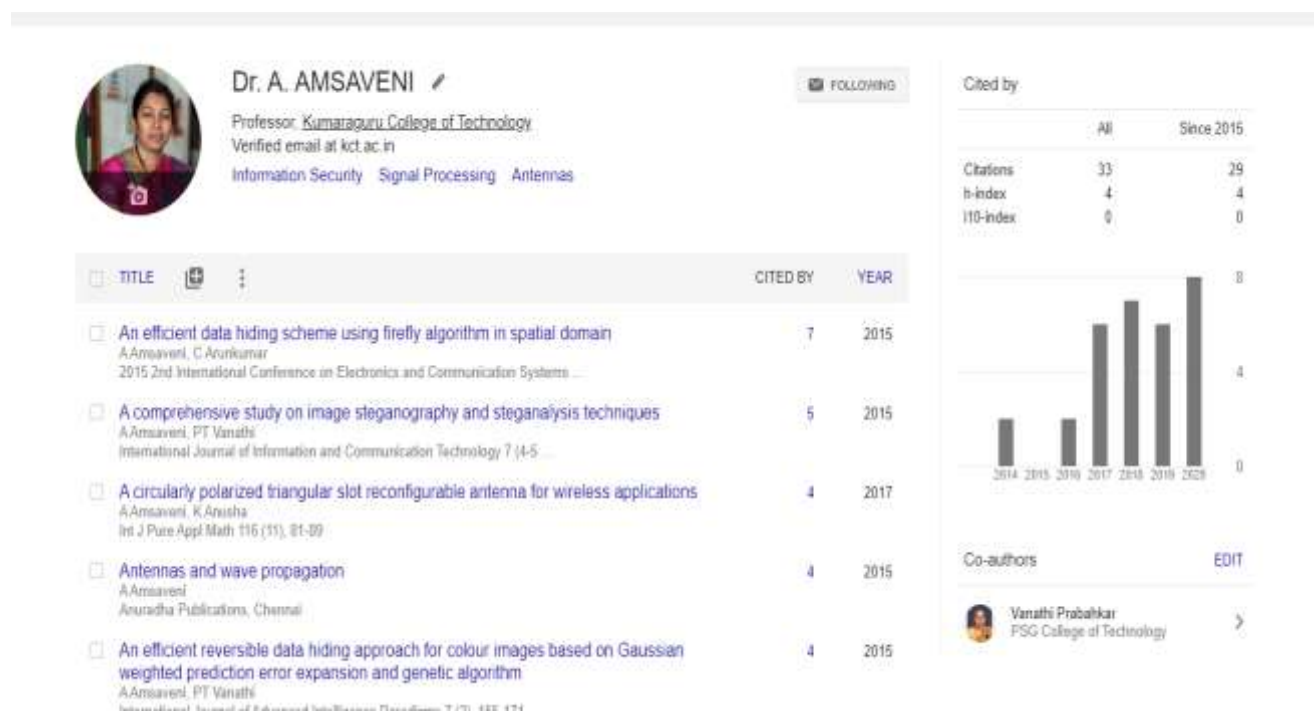
- Conference on Innovations in Intelligent instrumentation, optimization and signal processing, C
21. Deepthimaris B, **Amsaveni A** (2013), “ Detection and Feature selection of abnormal retina vessels using fundas image by genetic algorithm” Proceeding of the Internnatioanl Conference on Bio-medical signals and image processing, SSN College of Engineering, Coimbatore.
 22. Deepthimaris B, **Amsaveni A** (2013), “Detection and Feature extraction of abnormal vessels in diabetic retinopathic images”, Proceedings of the National Conference on system design and image processing, Dindukkal.
 23. Kalpana M, **Amsaveni A** (2012), “Comparison of Error Tolerant Method in AES for Wireless Communication”, Proceedings of the National Conference on Communication Technology Interventions for Rural and Social Development (NCCTIRD-2012),Sri Krishna College of Engineering and Technology, Coimbatore, pp 52-57.
 24. **Amsaveni A**, Kalpana M (2012), “Comparison of Error Tolerant Method in AES for Wireless Communication”, Proceedings of the National Conference on National Conference on Information and Communication Technologies (NCICT-2012), Kongu Engineering College, Erode.
 25. **Amsaveni A**, Kalpana,M (2012), ‘AES-Error Detection and Correction Using Hamming and BCH Codes’, Proceedings of the International Conference ICON3C’12
 26. Priya S, **Amsaveni A** (2012), ‘A Novel Edge Based Image Steganography with Enhanced Visual and Statistical Security’ Proceedings of the International Conference on Advanced Computing Technology (ICACT-2012).
 27. Priya S, **Amsaveni A** (2012), ‘Edge Adaptive Image Steganography in DWT Domain’, Proceedings of the National Conference on Communication Technology Interventions for Rural and Social Development (NCCTIRD-2012), Coimbatore, pp 408-411.
 28. Aswath S, **Amsaveni A** (2012), ‘People Count Estimation and Human Detection in a crowded Scenario’, Proceedings of the National Conference on Innovations in Signal Processing, Embedded Systems and Communication Technology (SPECT-2012), Coimbatore, pp 126-131.
 29. Madhan Raj K, **Amsaveni A** (2011), “Robustness of Audio Steganography Using Genetic Algorithm” Proceedings of the National Conference on Signals, systems and Technologies in media, Karunya University, Coimbatore.
 30. Madhan Raj K, **Amsaveni A** (2011), “Strengthening audio steganography using Genetic algorithm” Proceedings of the National conference on Emerging trends in Computer Communication and Informatics(ETCCI-2011), Tamilnadu College of Engineering, Coimbatore.

31. Sriramya V, **Amsaveni A** (2011), “ VLSI Implementation of AC bit plane encoder of CCSDS compression standard” Proceedings of the National Conference on Emerging trends in Instrumentation systems, Sri Ramakrishna Engineering College, Coimbatore.
32. Sivakumar S, **Amsaveni A** (2010), “Estimation and Detection of Convolution Coded Transmission over Rayleigh Fading MIMO Channel” Proceedings of the National Conference on Electrical and Instrumentation Systems, Government College of Technology, Coimbatore.
33. Madheswari J, **Amsaveni A** (2010), “FPGA Implementation of Data Encryption / Decryption using Scalable Encryption Algorithm” Proceedings of the National Conference on Micro/Nano Devices, Structures and Systems (MINDSS 2010), Muthayammal Engineering College.
34. Madheswari M, **Amsaveni A** (2010), “FPGA Implementation of Data Encryption / Decryption using Scalable Encryption Algorithm” Proceedings of the International Conference on VLSI, Communication, Computation and Security – ICVCCS’10, Karunya University, Coimbatore.
35. Rema N R, **Amsaveni A** (2008), “Feature based Image fusion” Proceedings of the National conference on Internet and Multimedia Communication, Noorul Islam College of Engineering, Kumaracoil.
36. Arun Varghese, **Amsaveni A** (2007), “VLSI implementation of signal Adaptive Spiracle Spectrum based speech Watermarking” Proceedings of the National Conference on Recent Trends in Electrical, Electronics, Instrumentation of Communication Engineering, Mahendra Engineering College, Thiruchengodu.
37. Sivaraman K, **Amsaveni A** (2006), “A VLSI Implementation for Image Watermarking” Proceedings of the National Conference on Recent trends in Communication Techniques, Noorul Islam College of Engineering, Kumaracoil.
38. Arul Karthick V J , **Amsaveni A** (2005), “An Evolvable Predictor for Lossless Image Compression” Proceedings of the National Conference on Power conversion & Industrial Drives, Bannari Amman Institute of Technology, Sathyamangalam.
39. **Amsaveni A** (2004) “ECG Data Compression Using Error Back Propagation- Neural Networks and Direct Data Compression Techniques” Proceedings of the National Conference on Emerging Trends in Communication Technology, K.S.R. College of Technology, Tiruchengode.

List of Outreach Programs Organized:

- A school outreach programme was organized on 21st February 2018 at Government Higher Secondary School, Velliangadu, Karamadai to give the school students an insight on Human Values, success, self-confidence, land, water, Radiation effects, Environmental safety, air pollution, Health tips and Importance to our society where we live.

Citation Index:



List of FDPs/Workshops/Seminars Attended:

1. One week FDP on '**Artificial Intelligence in Healthcare**' by Kumaraguru College of Technology, Coimbatore from 16.07.2020-20.07.2020
2. 5 Day webinar series on '**EMI/EMC**' organized by Kumaraguru International Centre for Artificial Intelligence and Robotics, Keysight Centre of Excellence on Wireless Technology & Robert Bosch Engineering and Business Solutions Private Limited (RBEI), Coimbatore from 06.07.2020 –10.07.2020.
3. One week IEEE AP-S lecture series on Recent trends on '**RF and its applications**' organized by IEEE AP-S Jaipur from 26.06.2020 to 30.06.2020.
4. Three day webinar series on "**Data Science opportunities and challenges: The road ahead**" organized by ECE Dept, Kumaraguru College of Technology, Coimbatore from 03.06.2020-06.06.2020.
5. ATAL Online FDP on '**Cyber Security**' organized by Jawaharlal Nehru University, New Delhi from 26.05.2020 -30.05.2020.
6. ATAL FDP on '**Internet of Things(IoT)**' organized by National Power Training Institute(NPTI),

Alappuzha from 16.12.2019-20.12.2019

7. One day Seminar on **‘MATLAB & Simulink for Engineering and Research’** organized by Design tech Systems Ltd, in Zone by Park Hotel, Coimbatore on 01.09.2018
8. Two Days workshop on **‘RF system design using Advanced Design System(ADS) and Electromagnetic Professional(EMPro)’** at Kumaraguru College of Technology, Coimbatore from 13.08.2018 to 14.08.2018
9. One day Seminar on **‘Phased Array Design Simulation With Keysight Solution’** organized by Keysight Technologies at PSG Institute of Technology and Applied Research, Coimbatore on 07.02.2018.
10. AICTE Sponsored QIP Short term course (7 days) on **‘IoT: A Perspective for Smart Environment and Ecosystems’** at Coimbatore Institute of Technology, Coimbatore from 18.12.2017 -24.12.2017
11. Three days Certification Program on **“Intellectual Property Rights (IPR) and Commercialization”** Kumaraguru College of Technology, Coimbatore from 02.11.2017 to 04.11.2017.
12. One day **‘IEEE Seminar and Poster Session on Recent Advances in Antennas’** conducted by IEEE Antennas and Propagation Society, Madras Chapter in association with PSG College of Technology Coimbatore on 18.08.2017.
13. FDP program on **“Advanced Remote Sensing Techniques for Agriculture and Forestry-Geoconnect-2017”** at **Indian Institute of Space Science and Technology**, Thiruvananthapuram from June 12th to 16th 2017
14. One day workshop on **“Research paper Writing using Latex”** Kumaraguru College of Technology, Coimbatore on 10.05.2017.
15. Three days Faculty Development Program (FDP) on **‘IoT and its Applications’** from 03.05.2017 to 05.05.2017. (Texas Instruments University Program)
16. Two day Faculty Development Program (FDP) on **‘MSP Microcontrollers and its applications’** (Texas Instruments University Program) for on 17.02.2017 & 23.02.2017
17. One day seminar on **“Soft computing and its applications”** at Kumaraguru College of Technology, Coimbatore on 04.04.2017.
18. Short term training program (STTP) on **“Pattern Recognition and its applications”** at Kumaraguru College of Technology, Coimbatore from 27.02.2017 to 02.03.2017.
19. Two days **Hands-on Training on “Image Processing Techniques using Matlab”** at Kongu Engineering College, Perundurai from 23.02.2017 to 24.02.2017.
20. One day seminar on **“Keysight Tech Day”** organized by Keysight Technologies at Residency Towers, Coimbatore on 25.10.2016.

22. TEQIP II Sponsored One Week **Faculty Development Program** on “**Research Perspectives for Signal Processing**” at PSG College of Technology, Coimbatore from 05.08.2016 to 11.08.2016.
23. ISRO sponsored **National seminar** on “**Techniques and applications of Hyper spectral image analysis**” at Amrita Vishwa Vidyapeetham, Coimbatore from 19.04.2016 to 20.04.2016.
24. Two Day **Hands-on Workshop** on “**Signal/Image Processing Using MATLAB and Raspberry-Pi Implementation**” organized by Dept.of ECE, Kumaraguru College of Technology, Coimbatore on 23.02.2016 & 24.02.2016.
25. **Hands-on Training** on, “**Ansys HFSS Training**” Conducted by Innovent Technologies at Kumaraguru College of Technology from 07.01.2016 - 09.01.2016.
26. **Workshop on “Optimization Techniques for solving Multidisciplinary Problems in Engineering Sciences**” organized by Dept.of CSE, Kumaraguru College of Technology,Coimbatore from 27.04.2015 to 29.04.2015.
27. **National Workshop** on “**Hands on training of Bio inspired optimization algorithm using Matlab**” organized by Dept.of EEE, Kumaraguru College of Technology, Coimbatore on 27.02.2015.
28. **IEEE Seminar** on “**Antennas and Microwaves and Students poster session**” organized by Dept.of ECE, Kumaraguru college of Technology Coimbatore-49 on 09.05.2014.
29. Two Day **Workshop** on “**Automotive Embedded Communication Protocols, AECP-2014**” organized by Dept.of Automobile Engg, Kumaraguru College of Technology, Coimbatore from 14.03.2014 to 15.03.2014.
30. Two Days **Workshop** on “**Computational Intelligence for Security**”, organized by Dept.of CSE, Kumaraguru College of Technology, Coimbatore -49 from 28.02.2014 to 01.03.2014.
31. One Day **Workshop** on “**Embedded Memory Design for SoC**” organized by Dept.of ECE,PSG College of Technology, Coimbatore on 14.12.2013.
32. One day **National Seminar** on “**Recent advancements in remote sensing image processing**” organized by Kumaraguru college of Technology Coimbatore on 16.04.2013.
33. One day **seminar** on “**MatLab and Simulink for Engineering Education**” organized by Math works India at Park Plaza,Coimbatore on 06.03.2013
34. Two days **International workshop** on “**Women in Electromagnetics**” organized by Kumaraguru college of Technology Coimbatore from 01.03.2013 – 02.03.2013.
35. Two days **National Workshop** on “**Computer vision and image processing techniques**” organized by Amrita Viswa Vidyapeetham, Coimbatore from 15.03.13-16.03.13.

36. **Faculty Development Program** on “**Introduction to Machine Learning Theory and applications**” organized by Dept.of ECE, Kumaraguru college of Technology Coimbatore from 07.12.2011-13.12.2011
37. One day panel discussion on “**Autonomy as a tool for quality Management**” organized by Government College of Technology, Coimbatore on 26.07.2012.
38. **Short Term Training Program(STTP)** on “**Advanced signal Processing Applications with LABVIEW**” conducted by Kumaraguru College of Technology, Coimbatore from 11.11.2010-12.11.2010.
39. **Workshop** on “**Evolutionary Optimization Techniques**” organized by Kumaraguru college of Technology Coimbatore from 17.06.2011-18.06.2011.
40. **Workshop** on “**Research Methodologies**” organized by Kumaraguru college of Technology Coimbatore from 15.04.2011 to 16.04.2011.
41. **Workshop** on “**Research Challenges in Image Processing**” organized by Dept. of ECE, Coimbatore Institute of Tech, Coimbatore from 04.02.2011 to 05.02.2011.
42. **National Workshop** on “**RF Design & S-Parameters Measurements**” organized by Dept. of ECE, Anna University of Tech., Coimbatore on 25.01.2011.
43. **National workshop** on “**Advanced wireless Networking**” organized by Kumaraguru College of Technology, Coimbatore on 06.02.2010
44. Two days **workshop** on “**Mobile and wireless Networks**” held at Coimbatore Institute of Technology from 19.03.2010 to 20.03.2010.
45. **Faculty Development Program** on “**Advanced Digital Signal Processing**” conducted by Anna University of Tech., Coimbatore from 22.11.2010 to 26.11.2010.
46. AICTE Sponsored **Professional Development Program** on “**Telecommunications Principles and Management**” conducted by Kumaraguru College of Technology, Coimbatore from 02.03.2009 to 06.03.2009.
47. **Short term training program**, sponsored by AICTE, New Delhi on “**Digital Signal Processing**” conducted by Dept. of ECE., Kumaraguru college of Technology from 19.6.2006 to 24.6.2006.
48. **National workshop** on “**CMOS VLSI ,DSP & Embedded Systems Design**” organized by Dept. of ECE, PSG College of Technology from 20.01.2006 to 21.01.2006.
49. **National workshop** on “**Embedded systems & its industrial applications**” organized by Dept. of ECE, Coimbatore Institute of Technology on 23.12.2005.
50. **National Workshop** on “**Advanced Networking & Telecommunications**”, organized by Dept.of ECE, Kumaraguru College of Technology, Coimbatore on 23.07.2005.
51. **Short Term training program** on “**Bio Signal Processing**” Organised by Karunya Institute of Technology, Coimbatore from 29.05.2000 to 10.06.2000.

52. Winter School “ **Multimedia and Applications**” organised by Kongu Engineering College, Perundurai, Erode from 29.11.1999 to 12.12.1999.

Subjects Handled:

- Antennas and wave propagation
- Electromagnetic Fields
- Digital Signal Processing
- Embedded Systems
- Electronic Circuits I & II
- Communication Network Security
- Advanced Digital signal processing
- Digital Image Processing
- Neural Networks
- Multimedia Compression Techniques

Software Tools Known:

- Matlab, HFSS, CAD FEKO, Multisim, Embedded C

Fields of Interest:

- Antennas, Information Security, Signal/Image Processing, IoT,5G Communications