

Name And Designation:Dr Ayyem Pillai V

Email ID:ayyempillai@yahoo.com

Educational Details:AMIE, ME, Ph D

Qualifications	UG: AMIE(ECE)	PG: ME (Industrial Electronics), M S University of Baroda	PhD: MIMO Antenna Selection, Anna University
----------------	---------------	---	---

Professional Background:1. Industry

- Organisation : Indian Air Force(IAF)
Period : From July 1988 to Oct 2003
Job Responsibilities : Maintenance, troubleshooting, modification and operation of guided missile systems.
- Systems Handled :
1. Surface-to-air missile – VIII of Russia (OSA-K-M) with specialization on radars, radar guidance simulator and aircraft simulator
 2. Prithvi-II of Defense Research and Development Organization (DRDO) of India with specialization in guidance systems.
 3. Also worked as training instructor at IAF's No. 1 guided weapons training institute (No.1 GWTI) and taught the following courses.
Radar guidance simulator
Aircraft simulator
Electronic warfare
 4. Worked with
Research Centre Imarat (Hyderabad, India)
Bharat Dynamics Limited (Hyderabad, India)
DRDL (Hyderabad, India)

2. Academy

Karpagam College of Engineering (Affiliated to Anna University, Autonomous and Accredited), Coimbatore, India

Period and Position Last Held : 10 Nov 2003 to 06 April 2013, Associate Professor

JCT College of Engineering and Technology (Affiliated to Anna University), Coimbatore, India

Period and Position Last Held : 1 June 2013 to 06 April 2014, Professor and Head

SNS College of Technology (Affiliated to Anna University, Autonomous and Accredited),

Coimbatore, India

Period and Position Last Held : 12 May 2014 to, Professor and PG In-Charge

Gokaraju Rangaraju Institute of Engineering and Technology (Affiliated to JNTUH, Autonomous and Accredited)

Professor ECE from 27 Dec 2014.

Administrative Experience:

JCT College of Engineering and Technology (Affiliated to Anna University), Coimbatore, India

Period and Position Last Held : 1 June 2013 to 06 April 2014, **Professor and Head**

SNS College of Technology (Affiliated to Anna University, Autonomous and Accredited), Coimbatore, India

Period and Position Last Held : 12 May 2014 to, **Professor and PG In-Charge**

I was the **founder IEEE student branch counselor** of Karpagam College of engineering. I was Counselor for the period from 2004 to 2009.

I have been, since 2015 June, **library committee chairperson of GRIET**

MSME Committee

Aerospace and defence representative of GRIET for CII

Committee Work:

Transport committee chairperson

library committee chairperson of GRIET

MSME Committee

Aerospace and defence representative of GRIET for CII

Courses Taught:

- Signals and systems
- Advanced digital signal processing
- Digital communication
- Modern digital communication techniques
- Cellular and mobile communication
- Microwave and radar engineering
- Electromagnetic waves and waveguides
- Antennas and wave propagation
- Measurements and instrumentation
- Transmission lines and waveguides
- Soft computing

Electromagnetic fields for ECE
Electromagnetic fields for EEE
Neural networks
Basic electronic engineering
Electronic engineering
Software defined radio
Wireless communication
Probability and stochastic processes
Microwave engineering
System modeling and simulation

PUBLICATIONS:

SCI-indexed Journals (Thomson Reuters)

1. **Ayyem Pillai, V** & Sudhakar, R 2013, 'A Low Complexity Near-Optimal MIMO Antenna Subset Selection Algorithm for Capacity Maximisation,' **Hindawi**, International Journal of Antennas and Propagation, vol. 2013, Article ID 956756, 11 pages, 2013. doi:10.1155/2013/956756 (ISSN 1687-5869, **Thomson Reuters impact factor 0.75**)
2. **Ayyem Pillai, V** & Sudhakar, R 'Computationally efficient norm-based capacity-Maximizing MIMO antenna selection algorithms', **Springer**, National Academy Science Letters- Published online DOI: 10.1007/s40009-014-0255-2 (ISSN 0250-541X, **Thomson Reuters impact factor 0.345**).

Scopus and Web of Science Journals and other Journals

3. Mr V Subba reddy and **Dr V Ayyem Pillai**, A sample matrix inversion algorithms, Indian journal of science and technology. **Previously Scopus, now Thomson Reuters Web of science**, Volume 9, Issue 15.
4. Mr Ramalingam S and **Mr Ayyem Pillai V**, Performance comparison of different algorithms for adaptive antenna applications, International journal of advances in science and technology, vol. 4, no. 1.
5. Ms Chandhana and **Dr V Ayyem Pillai**, Adaptive Beamforming algorithms, IUP journal of electrical and electronics engineering, 2015
6. Ms Haritha and **Dr V Ayyem Pillai**, DoA estimation Using MUSIC and Improved MUSIC algorithms for coherent signals, Indian journal of science and technology. **Previously Scopus, now, Thomson Reuters Web of science**, submitted
7. Ms Sooriya Devi and **Dr V Ayyem Pillai**, TV white space detection using LabVIEW and NI USRP, Indian journal of science and technology. **Previously Scopus, now, Thomson Reuters Web of science**, submitted

IEEE and other International Conferences

1. Mr **V Ayyem Pillai** and Dr R Sudhakar, V-BLAST Detectors: Performance investigation in correlated condition and time analysis, IEEE IMAC4S, 2013.
2. Dr Arun Vignesh, **Dr Ayyem Pillai**, Mr Santhosh Kumar, “ Survey on threats for bluetooth enhancement protocols for WLAN based IoT systems”, ICMR sponsored IEEE international conference on science, technology, engineering and Management 2017.
3. **Dr Ayyem Pillai** and Dr Padmavadhi, A printed planer elliptical monopole antenna for ultrawideband application, International conference on systemic, cybernetics and Informatics, ICSCI 2017
4. Dr Padmavathi and **Dr Ayyem Pillai**, ECG based arterial fibrillation detection using cuckoo search algorithm, International conference on systemic, cybernetics and Informatics, ICSCI 2017
- 5 Asisa Kumar Panigrahy, Sairam Akhil S, Arun Vignesh N, Sudharsan Jayabalan, Karthikeyan E, Ayyem Pillai V and Usha Kumari Chintalapati, ”A Novel Approach for detection of the symptomatic patterns in the acoustic biological signal using Truncation Multiplier IEEE International Conference on Intelligent Computing Instrumentation and Control Technologies- ICICICT 2019
- 7 Kanithan S, Arun Vignesh N, Ayyem Pillai V and Asisa Kumar Panigrah, “A SURVEY ON ENERGYEFFICIENT IMAGE TRANSMISSION IN WSN IEEE International Conference on Intelligent Computing Instrumentation and Control Technologies- ICICICT 2019

National Conferences

5. Ms Haritha and **Dr V Ayyem Pillai**, Analysis of LMS algorithm for smart antenna application, NCRAE IFHE 2016
6. Ms Mounika and **Dr V Ayyem Pillai**, Analysis of sample matrix algorithm NCRAE IFHE 2016

Review Work:

Reviewer for Journals and Books: IEEE sensor

PROFESSIONAL WORK:

Talks/Paper Presentations:

1. On invitation, delivered an expert lecture in **Anna University – sponsored FDP on “Transmission lines and waveguides”** at Dr. Mahalingam college of engineering and technology on 05-07-2011.
2. On invitation, delivered an Expert lecture in **Anna University – sponsored FDP on “Electromagnetic fields”** Dr. N.G.P. institute of technology, Coimbatore - 48 on 24-11-2010.
3. On invitation , acted as a judge for the student project display event as part of national level technical symposium at VLB Janakiammal college of engineering and technology on 25-09-2008.

4. On invitation , acted as a judge for the student paper contest as part of national level technical symposium at Erode chengunthar college of engineering.
5. Acted as co-chair for an International conference session at Karunya university, Coimbatore in 2013
6. Delivered a 60-hr training lectures in Electromagnetic Fileds(Phase I) for a group of 20 faculty from departments of ECE and EEE.
7. Delivering a training lectures in Electromagnetic Fileds(Phase II) for a group of 18 faculty from departments of ECE.
8. Delivered a talk on wireless communication at Bhoj Reddy Engineering college, Hyderabad.
9. Delivered a talk on MIMO wireless systems at Sri Vasavi college of engineering at Tadepallikudem.
10. Delivered lectures for police training

Seminars and Symposiums:

Memberships: IEEE member

External Examiner : (means lab external examiner,paper setting/moderator..etc)

Yes

AWARDS AND ACHIEVEMENTS:

Certifications Certified LabVIEW associate developer