

KINGS COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name: Mr.W.Newton David Raj	
Designation:	Assistant Professor
Qualification:	B.E.,M.Tech.,M.B.A.,M.Div
Area of Specialization:	Communication Systems
Experience:	Teaching : 14 Years
No. of Programme attended:	Workshop : 30 Seminar : 07 FDP/STTP : 10 Webinar : 50
Publication:	Journal National : 01 International : 10
	Conference National : 17 International : 16
Event Organized:	Workshop : 07 Anna University Approved Seven Days FDTP : 01 National Conference: 01 Project Expo : 01 Symposium : 03 Webinar : 03 Winter Crash Course:03
TNSCST Project:	01

NATIONAL JOURNAL PUBLICATIONS:

1. Published a paper on “**SEGMENTATION OF RETINAL IMAGES USING GA BASED STATISTICAL CLASSIFIER**” in PSG College of Technology National Journal August 2010.

INTERNATIONAL JOURNAL PUBLICATIONS:

1. Published a paper on “**LAYERED OFDMA FOR WIRELESS APPLICATIONS**” in ICTACT Journal on Communication Technology , December 2010 .
2. Published a paper on “**IMPROVED EDGE PRESERVING FILTER FOR CORRUPTED IMAGE ENHANCEMENT USING NON-LINEAR SPECKLE DETECTION AND ESTIMATION TECHNIQUE**” in ICTACT Journal on Image and Video proceesing ,December 2010.

3. Published a paper on **“CONTENT BASED IMAGE RETRIEVAL USING TEXTURAL FEATURES BASED ON PYRAMID-STRUCTURED WAVELET TRANSFORM”** in IEEE Xplore 2011.
4. Published a paper on **“EMBEDDING INVISIBLE WATERMARK IN DIGITAL IMAGE USING INTERPOLATION AND HISTOGRAM SHIFTING”** in IEEE Xplore 2011.
5. Published a paper on **“WATERMARKING TECHNIQUES FOR IP IDENTIFICATION BASED ON TESTING IN SOC DESIGN AT BEHAVIORAL LEVEL”** in IEEE Xplore 2011.
6. Published a paper on **“BEHAVIOURAL LEVEL WATERMARKING TECHNIQUES FOR IP IDENTIFICATION BASED ON TESTING IN SOC DESIGN ”** in Springer LNCS-CCIS volume no.147,pp. 485-488, 2011.
7. Published a paper on **“ARTIFICIAL EYE AND SENSORY BASED AN INTELLIGENT ROBOT FOR FIRE EXTINGUISHMENT TASK”** in Special Issue of International Journal on Advanced Computer Theory and Engineering (IJACTE) , ISSN (Print) : 2319 – 2526, Volume-2, Issue-1, 2013,Pages(101-105).
8. Published a paper on **“HARDWARE IMPLEMENTATION OF COMBINING IMAGE ENHANCEMENT AND ROI EXTRACTION FOR NIGHT TIME IMAGES”** in **INTERNATIONAL JOURNAL OF ADVANCED NETWORKING AND APPLICATIONS**,Volume No:8,Issue No:4(Jan-Feb 2017),Special Issue –NCBSI-2016,Pages(65-71).
9. Published a paper on **“SOLAR POWERED PLATFORM CLEANING ROBOT”** in **INTERNATIONAL JOURNAL OF ADVANCED RESEARCH METHODOLOGY IN ENGINEERING AND TECHNOLOGY**,Special Issue,March 2017,ISBN 978-1-63535-324-2,Pages(131-134).
10. Published a paper on **“ENVIRONMENTAL CLIMATE CREATION FOR PLANT USING IOT”** in **INTERNATIONAL JOURNAL OF ADVANCED ENGINEERING SCIENCE AND INFORMATION TECHNOLOGY**,APRIL 2021,ISSN:2349-3216.

NATIONAL CONFERENCE PUBLICATIONS:

1. Participated in the “National Conference on Computing,Communication and Information Systems(NCCCIS-2010)”,February 12th-13th, 2010 at Sri Krishna College of Engineering and Technology ,Coimbatore.
2. Participated in the “National Conference on Emerging Trends in Information Technology and Communication Systems(NCET’10)”5th,March 2010 at Velammal Engineering,Ambattur,Chennai.
3. Presented a paper on **“LAYERED OFDMA FOR WIRELESS APPLICATIONS”** in the 3rd National Conference on Advances in Power Engineering and Control Technology held on 08.04.2010 at Francis Xavier Engineering College,Vannerpettai,Tirunelveli.

4. Presented a paper on **“CDMA IS THE BEST TECHNOLOGY COMPARE TO GSM USING HARD WARE”** in Tamil Science Tenth Conference during 21st -23rd May 2010 at Manonmaniam Sundarnar University,Tirunelveli.
5. Presented a paper on **“ADVANCEMENT IN AODV ROUTING PROTOCOL IN WIRELESS ADHOC NETWORKS”** in the National Conference on Innovations in Information Technology(NCIIT 2011) held on 24th and 25th February 2011 at Bannari Amman Institute of Technology,Erode.
6. Presented a paper on **“ASSESSMENT OF DIABETIC FOOT WITH IMAGE FUSION METHODOLOGY”** in the Third National Conference on Advances in Computer Technology and Applications,held on 26th March 2011 at Velalar College of Engineering and Technology,Erode.
7. Presented a paper on **“DENOISING COLOR IMAGES WITH FUZZY PEER GROUP”** in the 4th National Conference on Advance in Power Engineering and Control Technology held on 31st March 2011 at Francis Xavier Engineering College,Tirunelveli.
8. Presented a paper on **“IMAGE RECONSTRUCTION OF SCANNED IMAGE WITH MINIMIZED REFERENCE INFORMATION—AN ANALYSIS”** in the 4th National Conference on Advance in Power Engineering and Control Technology held on 31st March 2011 at Francis Xavier Engineering College,Tirunelveli.
9. Presented a paper on **“EMBEDDED SYSTEM FOR COST MANAGEMENT FROM WASTE MANAGEMENT APPLYING FUZZY LOGIC”** in the National Conference on Communication,VLSI & SIGNAL PROCESSING(NCCVSP-12) held on 15th&16th March 2012 at The RAJAAS Engineering College,Vadakkangulam.
10. Presented a paper on **“AUTONOMOUS FIRE DETECTING AND EXTINGUISHING ROBOT”** in the First National Conference on Emerging Trends in Electronics and Communication Techniques(NCETECT'12) held on 12thOctober 2012 at Tamizhan College of Engineering&Technology,Kanyakumari.
11. Presented a paper on **“ASCENDING AND DESCENDING SNAKE ROBOT FOR DISASTER APPLICATIONS”** in the National Conference on Emerging Trends in Engineering and Technology(ETET) held on 23-03-2016 at Gnanamani College of Technology,Namakkal.
12. Presented a paper on **“HARDWARE IMPLEMENTATION OF COMBINING IMAGE ENHANCEMENT & ROI EXTRACTION FOR NIGHT TIME IMAGES”** in the 1st National Conference on Biomedical Signal and Image Processing(NCBSI-2016) held on 11th November 2016 at ACS College of Engineering,Bengaluru,Karnataka.
13. Presented a paper on **“FPGA IMPLEMENTATION FOR NIGHT TIME VEHICLE DETECTION USING ROI”** in the National Conference on Signal Processing and VLSI Design(NCSPVD'16) held on 28th Decemer,2016 at Kings College of Engineering,Pudukkottai,TamilNadu.

14. Presented a paper on **"IOT BASED REAL TIME DATA FOR WIND ENERGY POWER HARVESTINGG APPLICATION"** in the National Conference on Advanced Communication, Computing and Power Systems (NCACCPS2K18) held on 23rd March 2018 at St. Joseph's College of Engineering and Technology, Thanjavur, TamilNadu.
15. Presented a paper on **"SMART AGRICULTURE ON PLANTING & MONITORING SYSTEM FOR PROTECTED CULTIVATION"** in the National Conference on Advanced Communication, Computing and Power Systems (NCACCPS 2K19) held on 9th March 2019 at St. Joseph's College of Engineering and Technology, Thanjavur, TamilNadu.
16. Presented a paper on **"SINGLE WATERMARK FOR IMAGE WATERMARKING"** in the National Conference on Advancement in Electronics and Communication for Digital India held on 17th March '21 at Kings College of Engineering, Pudukkottai, TamilNadu.
17. Presented a paper on **"HYBRID DEEP LEARNING ALGORITHM BASED FOOD RECOGNITION"** in the National Conference on Envision on 5G in IOT & Cloud Computing Applications held on 28th March 2024 at Parisutham Institute of Technology & Science, Thanjavur, TamilNadu.

INTERNATIONAL CONFERENCE PUBLICATIONS:

1. Participated in "INTERNATIONAL CONFERENCE ON NANO SCIENCE & NANO TECHNOLOGY (ICONN-2010)" held at SRM University, Chennai during 24th-26th February, 2010.
2. Presented a paper on **"LAYERED OFDMA FOR WIRELESS APPLICATIONS"** in International Conference on Advances in Information, Communication Technology and VLSI Design (ICAICV -2010), 6th & 7th August 2010 at PSG College of Technology, Coimbatore.
3. Presented a paper on **"SEGMENTATION OF RETINAL IMAGES USING GA BASED STATISTICAL CLASSIFIER"** in International Conference on Advances in Information, Communication Technology and VLSI Design (ICAICV -2010), 6th & 7th August 2010 at PSG College of Technology, Coimbatore.
4. Presented a paper on **"IMPROVED EDGE PRESERVING FILTER FOR CORRUPTED IMAGE ENHANCEMENT USING NON-LINEAR SPECKLE DETECTION AND ESTIMATION TECHNIQUE"** in First International Conference on Modeling, Control, Automation and Communication (ICMCAC -2010), 20 & 21 December 2010 at Velammal Engineering College, Chennai.
5. Presented a paper on **"STUDY AND ANALYSIS OF DIFFERENT MIMO-OFDM SCHEMES UNDER VARIOUS CHANNEL CHARACTERISTICS"** in the International Conference on VLSI, Communication and Instrumentation (ICVCI 2011), 7th -9th April 2011 at SAINTGITS College of Engineering, Kottayam, Kerala, India.

6. Presented a paper on **“SCAN PATH TEST BASED WATER MARKING TECHNIQUES FOR IP IDENTIFICATION IN SOC DESIGN”** in the International Conference on VLSI, Communication and Instrumentation (ICVCI 2011), 7th-9th April 2011, at SAINTGITS College of Engineering, Kottayam, Kerala, India
7. Presented a paper on **“WATERMARKING TECHNIQUES FOR IP IDENTIFICATION BASED ON TESTING IN SOC DESIGN AT BEHAVIORAL LEVEL”** in 3rd International Conference on Electronics Computer Technology (ICECT 2011) in Kanyakumari, India during April 8-10, 2011.
8. Presented a paper on **“CONTENT BASED IMAGE RETRIEVAL USING TEXTURAL FEATURES BASED ON PYRAMID-STRUCTURED WAVELET TRANSFORM”** in 3rd International Conference on Electronics Computer Technology (ICECT 2011) in Kanyakumari, India during April 8-10, 2011.
9. Presented a paper on **“EMBEDDING INVISIBLE WATERMARK IN DIGITAL IMAGE USING INTERPOLATION AND HISTOGRAM”** in 3rd International Conference on Electronics Computer Technology (ICECT 2011) in Kanyakumari, India during April 8-10, 2011.
10. Presented a paper on **“BEHAVIOURAL LEVEL WATERMARKING TECHNIQUES FOR IP IDENTIFICATION BASED ON TESTING IN SOC DESIGN”** in International Conference on Advances in Information Technology and Mobile Communication (AIM- 2011) in April 21-22, 2011 Nagpur, Maharashtra, India.
11. Presented a paper on **“ARTIFICIAL EYE AND SENSORY BASED AN INTELLIGENT ROBOT FOR FIRE EXTINGUISHMENT TASK”** at the International Conference on Emerging Trends In Computer and Image Processing (ICETCIP-2013) held at Nagpur, Maharashtra, India on 17th February, 2013.
12. Presented a paper on **“MOTION DETECTION ALARM USING PIR SENSOR MODULE WITH A PIC MICROCONTROLLER”** at the International Conference on Advanced Computing, Machines and Embedded Technology (ICACT2013) held at J.K.K. Nattraja College of Engineering and Technology, Tamil Nadu, India on 8th & 9th March, 2013.
13. Presented a paper on **“FPGA IMPLEMENTATION FOR NIGHT TIME VEHICLE DETECTION USING ANN ”** at the International Conference on Engineering, Energy & Environment (ICEEE-2017) held at TRP Engineering College, Irungalur, Tiruchirappalli, Tamil Nadu, India during 31st March to 02nd April 2017.
14. Presented a paper on **“SOLAR POWERED PLATFORM CLEANING ROBOT”** at the International Conference on Modern Applications in Engineering & Technology (IER-MAET'17) held at Ponmari Residency, Ooty, Tamil Nadu, India on 10th March 2017.
15. Presented a paper on **“DESIGN AND IMPLEMENTATION OF MIMO-FSO COMMUNICATION SYSTEM FOR DISASTER MANAGEMENT”** in the 2nd International

Conference on Intellectual Research in Science, Engineering and Management (ICIRSEM 2022) held at St. Joseph's College of Engineering and Technology, Thanjavur, Tamil Nadu on 28th May 2022.

16. Presented a paper on **"IOT BASED SAFE WATER DRINKING SPECIALTIES SYSTEM FOR RURAL AREA"** in the International Conference on Computing, Communication and Control (IC4) held on 26.04.2023 at Kings College of Engineering, Pudukkottai, Tamil Nadu.

EVENT ORGANIZED

WORKSHOP:

1. Organized a event **"NATIONAL LEVEL WORKSHOP ON RECENT ADVANCES IN OPTICAL & MICROWAVE ENGINEERING"** at Kings College of Engineering, Pudukkottai, Tamil Nadu on 30th and 31st August, 2012.
2. Organized a event **"NATIONAL LEVEL WORKSHOP ON PRACTICAL ISSUES IN WIRELESS TECHNOLOGIES"** at Kings College of Engineering, Pudukkottai, Tamil Nadu on 18.10.2013.
3. Organized a event **"PROJECT LEVEL TRAINING ON IMAGE PROCESSING USING MATLAB"** during 28th & 29th August 2015, at Kings College of Engineering, Pudukkottai, Tamil Nadu.
4. Organized a event **"NATIONAL LEVEL WORKSHOP ON CAD FOR VLSI"** on 09.03.2018 at Kings College of Engineering, Pudukkottai, Tamil Nadu.
5. Organized a event **"NATIONAL LEVEL WORKSHOP ON WEB APP DEVELOPMENT"** at Kings College of Engineering, Pudukkottai, Tamil Nadu on 25.08.2019.
6. Organized a event **"NATIONAL LEVEL WORKSHOP ON PRINTED CIRCUIT BOARD DESIGN"** on 12.01.2019 at Kings College of Engineering, Pudukkottai, Tamil Nadu.
7. Organized a event **"NATIONAL LEVEL WORKSHOP ON ANTENNA DESIGN FOR INNOVATION"** from 28/05/2025 to 30/05/2025 at Kings College of Engineering, Pudukkottai, Tamil Nadu.

ANNA UNIVERSITY APPROVED SEVEN DAYS FDTP:

1. Organized a event **"NATIONAL LEVEL ANNA UNIVERSITY APPROVED SEVEN DAYS FDTP ON EC6401-ELECTRONIC CIRCUITS II"** at Kings College of Engineering, Pudukkottai, Tamil Nadu during 8th-12th December 2014.

NATIONAL CONFERENCE:

1. Organized a event “**NATIONAL CONFERENCE ON EMERGING TRENDS IN COMMUNICATION AND VLSI DESIGN(NCEC’15)**”on 11.03.2015, at Kings College of Engineering,Pudukkottai,TamilNadu.

PROJECT EXPO:

1. Organized a event “**NATIONAL LEVEL MEGA PROJECT EXHIBITION ELECTRO EXPO-2016**” on 01.04.2016, at Kings College of Engineering,Pudukkottai,TamilNadu.

SYMPOSIUM:

1. Organized a event “**NATIONAL LEVEL TECHNICAL SYMPOSIUM E-BLAST2K16**” on 17.09.2016 at Kings College of Engineering,Pudukkottai,TamilNadu.
2. Organized a event “**NATIONAL LEVEL TECHNICAL SYMPOSIUM E-BLAST2K19**” on 29.08.2019 at Kings College of Engineering,Pudukkottai,TamilNadu.
3. Organized a event “**National Level Technical Symposium e-BLAST2k23**” on September,2023 at Kings College of Engineering,Pudukkottai,TamilNadu.

WEBINAR:

1. Organized a Webinar on “**MODERN ANTENNA DESIGN CHALLENGES FOR HEALTH CARE APPLICATIONS**” on 10.06.2020 at Kings College of Engineering,Pudukkottai,TamilNadu.
2. Organized a Webinar on “**ANTENNAS FOR HEALTH CARE APPLICATIONS**” on 10.06.2020 at Kings College of Engineering,Pudukkottai,TamilNadu.
3. Organized a Webinar on “**THE ROLE OF IOT IN CURRENT PANDEMIC OF COVID-19**”on 27.05.2021 at Kings College of Engineering,Pudukkottai,TamilNadu

WINTER CRASH COURSE:

1. Organized a event “**WINTER CRASH COURSE ON C,C++,JAVA PROGRAMMING**”during **22.02.2022 to 28.02.2022** at Kings College of Engineering,Pudukkottai,TamilNadu.

APPROVED TNSCST PROJECT:

1. **SMART AND SAFE RESCUE SYSTEM FOR CHILDREN TRAPPED IN OPEN BOREWELL**