

ILAHIA COLLEGE OF ENGINEERING AND TECHNOLOGY

VIPIN THOMAS (M.E)

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Qualifications

Qualifications	Course	Institution	University	CompletionDate / Status
Post-Graduation	M.E	MAHARAJA ENGINEERING COLLEGE	ANNA UNIVERSITY, CHENNAI	10 Sep 2012
Graduation	B.TECH	ICET	M G UNIVERSITY	28 Jul 2006
Diploma	Electronics	Govt. Polytechnic, Perumbavoor	State Board of technical education	26 Sep 2002

Certification Program

Course	Institution	University	Completion Date
"Institution Building? organized by Indian Institute of Management	IIM KOZHIKODE	IIM	21 Dec 2015
Enrichment of Effective Teaching Skills-an Introduction to the Theory	VJCET	MAHATHMA GANDHI	21 Nov 2009

Professional Experience

Duration	Exprience	Status	Organization	Department	Designation	Keyareas
02 Aug 2006-01 Apr 2022	15 Years, 7 Months, 30 Days	Currently Associated	ILAHIA COLLEGE OF ENGINEERING & TECHNOLOGY	ELECTRONICS & COMMUNICATION	ASSISTANT PROFESSOR	

AcademicsELECTRONIC CIRCUITS

Achievements/Awards

Type	Achievmnts/Awards
Achievement	Secured 100% result in Analog Integrated Circuit Design (M.Tech Applied Electronics, Kerala Technological University).2018-2019
Achievement	secured 100% result in Analog Integrated Circuit Design (M.Tech Applied Electronics, Kerala Technological University).2019-2020

Research Publications:

- Publication Type: ResearchPublications
- Title: VLSI Adder implementation Using Generalized Ling Algorithm
- Indexed In:
- Event Status: International
- Main Author: SOUMIYA RASHEED
- Co-Author: VIPIN THOMAS
- Journal Name: INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN ELECTRICAL, ELECTRONICS & INSTRUMENTATION ENGINEERING
- Date: 2016-01-01
- UGCapproval: Not Approved
- ISSN No: 2320 - 3765
- Volume: 5
- Issue: 1
- Page Number:
- Year: 2016
- Details:

Research Publications:

- Publication Type: ResearchPublications
- Title: Biometric Security System for Fake Detection using image Quality Assessment Techniques
- Indexed In: Other
- Event Status: International
- Main Author: RINU PRAKASH
- Co-Author: VIPIN THOMAS

- Journal Name: International Journal on Recent and Innovation Trends in Computing and Communication
- Date: 2015-09-15
- UGCapproval: Not Approved
- ISSN No: 2321-8169
- Volume: 3
- Issue: 9
- Page Number: 5578-5583
- Year: 2014
- Details: Biometric Identification is the best security system in developing security world. Hackers made a fake biometric in easy way, so it reduce the security accuracy. Biometric security system are hacked by using two types of attack, direct or spoofing attack & indirect attack. So, there is a need to develop a new and efficient protection measure. Here, three biometric techniques - face recognition, fingerprint and iris recognition (Multi-biometric system) are used to detect whether the image is real or fake. This protection method uses Image Quality Assessment (IQA) technique. If the image is a real, it checks whether the image belongs to an authorized person or not. Out of the three biometric techniques, face recognition using Discriminate Power Analysis (DPA) technique is used for detecting authorized person. The objective is to increase the security of biometric recognition framework by adding liveness assessment in fast, non-invasive & user friendly manner. This approach protects the biometric security system from direct and indirect attack. The complexity of the proposed system is very low because it extracts 31 image quality measures from one image.

Research Publications:

- Publication Type: ResearchPublications
- Title: Design of A Digital PLL with Divide by 4/5 Prescaler
- Indexed In: Other
- Event Status: International
- Main Author: JAYALEKSHMI
- Co-Author: VIPIN THOMAS
- Journal Name: IJAREEIE
- Date: 2014-12-05
- UGCapproval: Not Approved
- ISSN No: 2320 - 3765
- Volume: 3
- Issue: SPECIAL ISSUE 5
- Page Number: 695-701
- Year: 2014
- Details: Phase Locked Loops (PLL) is a control system that generates an output signal whose phase is related to the phase of an input signal. A phase locked loop can track input frequency or it can generate a frequency that is the multiple of input frequency. PLLs are widely employed in radio, tele communications, computers etc. In order to overcome the disadvantage of analog PLLs such as the effect of leakage current and temperature, an all digital PLL is preferred here. It eliminates the problems in clocking like clock skew and jitter. The PLL is designed digitally with a divide by 4/5 prescaler in the frequency divider section. It divides the DCO frequency with two consecutive integers. The proposed method is designed in verilog and is implemented in xilinx. The major factor to be considered here is lock time. The lock time achieved here is 19.05%u03BCs

Research Publications:

- Publication Type: ResearchPublications
- Title: Design of a digital PLL with divide by 4/5 prescaler employing ring oscillator TDC and accumulator type DCO

- Indexed In: Other
- Event Status: International
- Main Author: JAYALEKSHMI
- Co-Author: VIPIN THOMAS
- Journal Name: International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS)
- Date: 2014-08-13
- UGCapproval: Not Approved
- ISSN No: 2279-0055
- Volume: June-August
- Issue:
- Page Number: 243-247
- Year: 2014
- Details: A digital PLL compares the circuit frequency with a reference frequency and adjusts the output using the feedback loop. A divide by 4/5 prescaler is used. The PLL locks when both the frequencies become equal. Analog PLLs are susceptible to noise and temperature variations. To deal with the problem of power dissipation and increased jitter, a digital PLL is prescribed. For reduced lock time and jitter, an accumulator type DCO and ring oscillator TDC is used. It attains fast lock time.

Research Publications:

- Publication Type: ResearchPublications
- Title: A NEW SCHEME FOR PACKET EXCHANGE IN WIRELESS Ad-HoC NETWORKS
- Indexed In:
- Event Status: International
- Main Author: VIPIN THOMAS
- Co-Author:
- Journal Name: INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY
- Date: 2013-07-08
- UGCapproval: Not Approved
- ISSN No: 2278-0181
- Volume: 2
- Issue: 7
- Page Number:
- Year: 2013
- Details:

Research Publications:

- Publication Type: ResearchPublications
- Title: Biometric Security System for Fake Detection using image Quality Assessment Techniques
- Indexed In: Other
- Event Status: International
- Main Author: NA
- Co-Author: VIPIN THOMAS
- Journal Name: International Journal on Recent and Innovation Trends in Computing and Communication
- Date: 2009-08-20
- UGCapproval: Not Approved
- ISSN No:
- Volume: 3
- Issue: 9
- Page Number: 5578-5583

- Year: 2015
- Details:

Seminars/Workshops/Conferences/Presentation/Poster Presentation

Conferences:

- Event Status: National
- Title: DATA AIDED CHANNEL ESTIMATION SCHEME FOR MIMO-OFDM OVER RAYLEIGH FADING CHANNEL
- Start and End date: 16 Nov 2011 - 16 Nov 2011
- Organizing Body: METs college Association for Electronics Engineers, METs School of Engineering, Mala
- Role: METs college Association for Electronics Engineers, METs School of Engineering, Mala
- Details: National Conference on VLSI architectures for image and video Processing Systems

Conferences:

- Event Status: National
- Title: PILOT ASSISTED CHANNEL ESTIMATION SCHEME FOR MIMO-OFDM OVER DISPERSIVE FADING CHANNEL
- Start and End date: 18 Feb 2012 - 18 Feb 2012
- Organizing Body: Department of ECE, Maharaja Engineering College, Avinashi
- Role: Department of ECE, Maharaja Engineering College, Avinashi
- Details: National Conference on VLSI, Communication

Conferences:

- Event Status: National
- Title: VOICE CONTROLLED WHEEL CHAIR WITH INDOOR NAVIGATION SYSTEM
- Start and End date: 25 Apr 2014 - 26 Apr 2014
- Organizing Body: Department of ECE, ICET, Mulavoor
- Role: Department of ECE, ICET, Mulavoor
- Details: National Conference on New trends in Electronics, Computing

Conferences:

- Event Status: National
- Title: Conference on Solid State Circuits
- Start and End date: 29 Aug 2014 - 30 Aug 2014
- Organizing Body: SAINTGITS IEEE SSCS Student Chapter
- Role: SAINTGITS IEEE SSCS Student Chapter
- Details:

Workshops:

- Event Status: National
- Title: EMERGING TRENDS IN VLSI DESIGN
- Start and End date: 31 Jul 2015 - 01 Aug 2015
- Organizing Body: Department of ECE, Mar Athanasius College of Engineering, Kothamangalam
- Role: Department of ECE, Mar Athanasius College of Engineering, Kothamangalam
- Details: EMERGING TRENDS IN VLSI DESIGN

Workshops:

- Event Status: National
- Title: SPSS
- Start and End date: 19 Nov 2015 - 20 Nov 2015
- Organizing Body: ELECTROZONE, ICET
- Role: ELECTROZONE, ICET
- Details:

Conferences:

- Event Status: National
- Title: ADVANCED STEGANOGRAPHY BY MINIMIZING STATISTICAL DETECTABILITY
- Start and End date: 17 Mar 2018 - 17 Mar 2018
- Organizing Body: MES College of Engineering
- Role: MES College of Engineering
- Details: National Conference on Emerging Technologies

Conferences:

- Event Status: International
- Title: EFFICIENT IMAGE DEHAZING USING IMPROVED DEPTH ESTIMATION
- Start and End date: 16 May 2018 - 17 May 2018
- Organizing Body: SCAD Institute of Technology, Palladam, Tamilnadu
- Role: SCAD Institute of Technology, Palladam, Tamilnadu
- Details: International Conference on ISMAC in Computational Vision

Conferences:

- Event Status: National
- Title: ARDUINO GLOVE BASED AUTONOMOUS CAR
- Start and End date: 09 May 2019 - 10 May 2019
- Organizing Body: Department of ECE, Viswajyothi College of Engineering
- Role: Department of ECE, Viswajyothi College of Engineering
- Details: National Conference on VLSI, SIGNAL PROCESSING

Conferences:

- Event Status: National
- Title: NEW TRENDS IN ELECTRONICS, COMPUTING
- Start and End date: 25 Apr 2014 - 26 Apr 2014
- Organizing Body: Department of ECE, ICET
- Role: Department of ECE, ICET
- Details: National Conference on NEW TRENDS IN ELECTRONICS, COMPUTING

Conferences:

- Event Status: National
- Title: Design of a digital PLL with divide by 4/5 prescaler employing ring oscillator TDC and accumulator type DCO
- Start and End date: 29 Aug 2014 - 30 Aug 2014
- Organizing Body: Saintgits IEEE SSCS Student Chapter
- Role: Saintgits IEEE SSCS Student Chapter
- Details:

Conferences:

- Event Status: International

- Title: Efficient Image Dehazing using improved depth estimation and color analysis
- Start and End date: 16 May 2018 - 17 May 2018
- Organizing Body: SCAD institute of technology
- Role: SCAD institute of technology
- Details: international conference on ISMAC in computational vision and bio-engineering

Seminars:

- Event Status: International
- Title: Design with security and ethics
- Start and End date: 22 Aug 2020 - 22 Aug 2020
- Organizing Body: School of Electrical, Electronics and Communication Engineering in collaboration with IEEE SB Galgotias University
- Role: School of Electrical, Electronics and Communication Engineering in collaboration with IEEE SB Galgotias University
- Details:

Staff Development Programs:

- Event Status: National
- Title: Sustainable Engineering Practices in Agriculture and Automotive Industry (SEPAAI)
- Start and End date: 17 May 2021 - 21 May 2021
- Organizing Body: Department of Electronics and Communication Engineering, Mar Athanasius College of Engineering Kothamangalam
- Role: Department of Electronics and Communication Engineering, Mar Athanasius College of Engineering Kothamangalam
- Details: Sponsored by APJ Abdul Kalam Technological University, Thiruvananthapuram, Kerala

Staff Development Programs:

- Event Status: National
- Title: Emerging Research trends in VLSI, MEMS
- Start and End date: 10 Aug 2020 - 13 Aug 2020
- Organizing Body: Saintgits college of Engineering
- Role: Saintgits college of Engineering
- Details:

Staff Development Programs:

- Event Status: National
- Title: Modern trends in power electronics
- Start and End date: 08 Mar 2021 - 12 Mar 2021
- Organizing Body: College of Engg, Perumon
- Role: College of Engg, Perumon
- Details: Sponsored by TEQIP-II

Seminars:

- Event Status: State
- Title: 5G End to enf technology
- Start and End date: 14 Aug 2020 - 14 Aug 2020
- Organizing Body: Rajagiri College of Engg anf Technology
- Role: Rajagiri College of Engg anf Technology
- Details:

Workshops:

- Event Status: National
- Title: NPTEL E-awareness
- Start and End date: 13 Aug 2020 - 13 Aug 2020
- Organizing Body: GALGOTIAS UNIVERSITY, UP
- Role: GALGOTIAS UNIVERSITY, UP
- Details:

Staff Development Programs:

- Event Status: National
- Title: Professional Ethics in current pandemic scenario
- Start and End date: 22 Feb 2021 - 27 Apr 2021
- Organizing Body: Department of ECE, College of Engg, Perumon
- Role: Department of ECE, College of Engg, Perumon
- Details: Sponsored by TEQIP

Staff Development Programs:

- Event Status: National
- Title: EMBEDDED SYSTEMS
- Start and End date: 03 Mar 2021 - 06 Mar 2021
- Organizing Body: COLLEGE OF ENGINEERING KIDANGOOR
- Role: COLLEGE OF ENGINEERING KIDANGOOR
- Details: Sponsored by TEQIP-II

Seminars:

- Event Status: State
- Title: 5g NR: The next generation wireless access technology
- Start and End date: 08 Aug 2020 - 08 Aug 2020
- Organizing Body: FISAT, Angamaly
- Role: FISAT, Angamaly
- Details: In association with ECHO

Staff Development Programs:

- Event Status: National
- Title: IoT based Autonomous Robot Design
- Start and End date: 28 Apr 2021 - 30 Apr 2021
- Organizing Body: Department of Electronics
- Role: Department of Electronics
- Details: Sponsored by APJ Abdul Kalam Technological University

Staff Development Programs:

- Event Status: State
- Title: INTRODUCTION TO MATLAB
- Start and End date: 28 Jul 2017 - 28 Jul 2017
- Organizing Body: ICET
- Role: ICET
- Details:

Staff Development Programs:

- Event Status: State
- Title: SIGNAL PROCESSING
- Start and End date: 13 Jan 2016 - 13 Jan 2016
- Organizing Body: ICET
- Role: ICET
- Details:

Professional Affiliations

Affiliation:

Details

LIFE MEMBER OF ISTE

Affiliation:

Details

IEEE Member

Extension Activities

Title	Start And End Date	Role	Details
BOYS HOSTEL	05 Jan 2020 - 21 Oct 2020	CHIEF WARDEN	
KTU INTERNAL EXAM CELL	03 Jan 2016 - 21 Oct 2020	CONVENER	
ANTIRAGGING CELL	17 Aug 2020 - 21 Oct 2020	CONVENER	
KTU ACADEMIC	07 Aug 2016 - 30 Dec 2016	CONVENER	
ZEPHYR'14 ARTS FESTIVAL	14 Mar 2014 - 15 Mar 2014	CONVENER	
ZEPHYR'15 ARTS FESTIVAL	20 Mar 2015 - 21 Mar 2015	CONVENER	

Title	Start And End Date	Role	Details
OBSQURA - 2017	16 Feb 2017 - 17 Feb 2017	COORDINATOR	BEAUTIFICATION COMMITTEE
OBSQURA - 2K18	22 Feb 2018 - 24 Feb 2018	CONVENER	PURCHASE COMMITTEE
VM EDULIFE	01 Dec 2020 - 10 Feb 2021	COORDINATOR	
HOSTEL MONITORING COMMITTEE	15 Jul 2018 - 01 Apr 2022	Convenor	