Department of Electronics and CommunicationEngineering

Personal Details

Name :	Dr. PRASANNA S.C.
Designation :	Assistant Professor (Selection Grade)
Educational Qualification :	B.E., M.E, Ph.D.
Experience:	23 Years Teaching, 2+years Industry
Area of Specialization :	Electronics and Instrumentation, VLSI – Reconfigurable system design
Date of Joining :	16.02.2007
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Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.E.	EIE	Government College of Technology / Bharathiar University	1995
2	M.E	Applied Electronics	Arunai Engineering College / Anna University	2006
3	Ph.D	Information & Communication Engineering	Anna University	2017

Professional Society Memberships

1. Indian Society of Technical Education: Life Member

Publication Details

International Journals

1. A. X. R. Irudayaraj, Noor Izzri Abdul Wahab, Mallapu Gopinath Umamaheswari, Mohd Amron Mohd Razdi, Nasri Bin Sulaiman, Veerapandian Veerasamy, S.C.Prasanna, and Rajeswari Ramachandran, "A Matignon's Theorem Based Stability Analysis of Hybrid Power System for Automatic Load Frequency Control Using Atom Search Optimized FOPID Controller," in *IEEE Access*, vol. 8, pp. 168751-168772, Sep' 2020

2. S. C. Prasanna and V. Suresh Kumar, "IoT based outdoor air pollution monitoring system using dynamically relocatable sensor nodes", TEST Engineering and management, vol. 83, pp. 18247-18259, April 2020.

3. S.C. Prasanna, J. Naveen, C. Ranjana Sree, P.Pavithra, and S. Shalini, "Real time air quality monitoring system using unmanned arial vehicle", International Research Journal of Modernization in Engineering Technology and Science, vol. 2, no. 3, March-2020.

4. A.R.Pradeep, B.Sandeep, J.Sabari Ganesh, K.Suresh, S.C.Prasanna, "Web-Based Remote Monitoring & Control System", International Journal of Engineering Science and Computing, vol. 6, no. 3, pp. 20156-20158, March 2019

5. Prithiunan.D, Ramakrishnan.P, Sakthivel.R, Senthilkumar.M, Prasanna S.C. "Web-Based Air And Noise Pollutionmonitoring And Alerting Syetem", International Research Journal of Engineering and Technology, vol. 6, no. 3, pp 1381-1383, March 2019

6. Prasanna S C, Joy Vasantha Rani S P, and Selestin Soundarya A, "FPGA Realization of Optimized Digital Down Converters for WCDMA and CDMA 2000", International Journal for Innovative Research in Science & Technology, vol. 4 , no. 9, pp.115-124, February 2018.

7. Prasanna S C, Joy Vasantha Rani S P, "An efficient Implementation of Reconfigurable Interpolation Root-Raised Cosine FIR filter for SDR Application" in the journal "Sadhana" - Academy Proceedings in Engineering Sciences, vol. 41, no. 10, pp. 1189-1201, Oct' 2016.

8. Prasanna S C, Joy Vasantha Rani S P, "Area and speed efficient implementation of symmetric FIR digital filter through reduced, parallel LUT decomposed DA approach" in the journal "Circuits and Systems", Vol. 7, No. 8, pp. 1379-1391, June 2016.

9. Prasanna S C, Joy Vasantha Rani S P, "Universal Programmable Modulator Architecture for Software Defined Radio" in the journal "International Journal of Applied Engineering Research", Vol.10, No. 9, pp. 8854-8860, Nov' 2015.

10. Prasanna S C, Joy Vasantha Rani S P, "Design of Transmitter for SDR application" in the journal "International Journal of Advent Research in Computer and Electronics", Vol.1, No. 7, pp. 36-42, Nov'2014.

11. I Andrew Xavier Raj, Prasanna S C, Sivakumar P Raj "Performance Analysis And Control of Double Fed Induction Generator Using Modified Direct Power Control scheme during Nonlinear Loading" in the journal "Applied Mechanics and Materials", Vol. 626, pp 172-176, Aug'2014

National / International Conferences

1. Krithiga R, S.C.Prasanna, "Autonomous Electronic Guiding Stick using IoT for the Visually Challenged", Proceedings of the International Conference on Modelling, Simulation & Intelligent Computing (MoSICoM 2020) at BITS Pilani, Dubai Campus, Dubai, 29-31 Jan'2020.

2. Krithiga R, S.C.Prasanna, "Survey on Navigation Assistance Devices for the Visually challenged", Proceeding of the International Conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering at SRM Valliammai Engineering College, Chennai, pp. 187-190, September 6-7, 2019.

3. S.C.Prasanna, S.P.Joy Vasantha Rani, 'High speed reconfigurable pulse shaped universal programmable modulator for SDR application', Proceeding of the 2nd National Conference on Research in Electronics Engineering and Communication Techniques, Chennai, India, 4B.4, pp. 4.1-4.7, April, 2016

4. B.Prabhu, S.C.Prasanna, S.Ezhilarasi, "TS-Fuzzy controller for wind energy conversion systems", Proceeding of International Conference on Advance Research and Innovation in Engineering, Science, Technology and Management at ARS college of Engineering, Chennai, pp. 113 – 117, April 2015

5. S.C.Prasanna, S.P.Joy Vasantha Rani, 'Universal programmable modulator architecture for software defined radio', Proceedings of 2nd International Conference on Engineering Technology and Science, Rasipuram, India, pp. 424-429, March, 2015.

6. I.Andrew Xavier Raj, S.C.Prasanna, P.Sivakumar "Performance Analysis and Control of Double Fed Induction Generator during Unbalanced Loading", Proceedings of *2nd International Conference on Energy Efficient Technologies for sustainability,* St. Xavier's Catholic College of Engineering, Chunkankadai, Tamil Nadu, India. April 7-9, 2014.

7. S.R.Narmadha, S.C.Prasanna , Vamsi Krishna Muvvala "Induction Motor Control in Field Weakening Domain using Vector Control Technique" Proceeding of National Conference on Innovative Techniques in Power Engineering & Drives at Velammal Engineering College, Chennai, pp.4, March 2014.

8. S.R.Narmadha, S.C.Prasanna, P.Sivakumar "Vector control design for induction motor in field weakening domain", Proceeding of *2nd International Conference on Energy Efficient Technologies for sustainability,* St. Xavier's Catholic College of Engineering, Chunkankadai, Tamil Nadu, India. April 7-9, 2014.

9. S.Pricilla Mary, S.C.Prasanna, "Simulation Of Four Arm AC Automatic Voltage Regulator", Proceeding of *International Conference on Computing. Communication and Advanced Network - ICCCAN 2013,* at Chennai Institute of Technology, Chennai, March 2013.

10. S.Pricilla Mary, S.C.Prasanna, "Simulation of Three arm AC Automatic Voltage Regulator", Proceeding of *National Conference on Modeling, Simulation and Optimization – NCMSO 2012,* at VELS University, Chennai, November 2012.

11. S.C.Prasanna, S.Murali, "Implementing Digital Up/Down Converter for Wireless Applications on FPGA ",Proceeding of IEEE sponsored *National Conference on Digital Convergence 2006* at R.M.K. Engineering College, Chennai, May 2006

12. S.Murali, S.C.Prasanna, "Implementation of Direct Digital Synthesizers for Wireless Applications on FPGA", Proceeding of *National Conference on Extreme Engineering and Technological Advancements (XETA-2K6)* at Jayam College of Engineering & Technology, April 2006

Book Chapter

1. R. Krithiga and S.C. Prasanna, Chapter in Algorithms for Intelligent Systems, advances in Machine Learning and Computational Intelligence, Springer, 2019

Research and Development Details

✓ Published research papers in the field: reconfigurable and dedicated FIR filters, Interpolators and Modulators for SDR application. Continuing research in this field.

✓ Coordinator - National Conference on Emerging trends in Electronics, Instrumentation and Control-2014

✓ Guided VEC funded (Rs 5000/-) final year student project: "Web-Based Remote Monitoring & Control System" during 2018-19 academic year. Students: A.R.Pradeep, B.Sandeep, J.Sabari Ganesh, and K.Suresh

Other Particulars

**1. Programmes Organized (*Coordinator)*
   (Conference/Symposium /VAC/FDP/SDP/Workshop/Guest Lecture /Seminar)**

Conference
✓ Cocordinator for National Conference on "Emerging Trends in Electronics, Instrumentation and Control" (EtEIC 14) on 3.05.2014.

Symposium
✓ Cocordinator for National Level Technical Symposium "ORKESTRIM 2K12" on 4.09.2012

Value Added Course (VAC)
✓ VAC on "Training on PLC & SCADA for Monitoring and Control Applications" during 24th July to 11th August 2017 at Valliammai Engineering College, Kattankulathur, Chennai.

✓ VAC on "MATLAB Programming and its application in Medical Image Processing" during 1st November to 3rd November 2021at SRM Valliammai Engineering College, Kattankulathur, Chennai.

Faculty Development Peogramme (FDP)
- ✓ Faculty Development Programme on "EI6602-Process Control" on16th&17thNovember 2017
- ✓ Faculty Development Programme on "Advanced Process Control & VLSI Design" on 03.04.08.

Staff Development Programme (SDP)
- ✓ Staff Development Programme on. "Environmental Awareness" on 11.11.2019
- ✓ Staff Development Programme on. "Concepts of Measurements – Temperature, Force, Pressure, Flow and Level" on 9.12.15.
- ✓ Training Programme on "Handling LCD and OHP" on 27.07.2011

Workshops
- ✓ One day Workshop on "Product Designing Programme(Gadget making)" on 20.07.2012
- ✓ One day Workshop on "Computer Controlled Robots" on 29.07.2011
- ✓ Training cum Workshop on "Distributed Control Systems and Field Bus" during 21st to 25th of January 2010.

Guest Lecture
- ✓ Guest Lecture on Instrumentation and Control-Career pursuit on 22.02.2014
- ✓ Guest Lecture on LabVIEW in Control Applications on 13.03.2012
- ✓ Guest Lecture on IC Assembly and Testing 15.02.2012
- ✓ Guest Lecture on Modeling of Process Control System on 20.01.2012
- ✓ Guest Lecture on "Process Control and Job Opportunities for Instrumentation Engineers" on 19.08.2009
- ✓ Guest Lecture on "Amplifier Design and Issues" on 15.09.2009

Seminar
- ✓ Seminar on "Career Guidance for pre-final year students" on 16.08.2012
- ✓ Seminar on "Career Guidance on Higher Studies" on 26.07.2012

2. Resource Person in VAC / FDP/ SDP

Value Added Course (VAC)
- ✓ Provided hands on training in PLC and SCADA for 51 students in the VAC on " Training on PLC & SCADA for Monitoring and Control Applications" held during 24th July to 11th August 2017 at Valliammai Engineering College, Kattankulathur, Chennai.
- ✓ Provided hands on training in online mode for the VAC on "MATLAB Programming and its application in Medical Image Processing" held during 1st November to 3rd November 2021at SRM Valliammai Engineering College, Kattankulathur, Chennai

Faculty Development Peogramme (FDP)
- ✓ Delivered lecture on 15.11.16 in the Faculty Development Programme on " Computer Control of Process" at Valliammai Engineering College, Kattankulathur, Chennai.

- ✓ Delivered lecture on 28.06.16 in the Faculty Development Programme on "EE6303 – Linear Integrated Circuits and Applications" at Valliammai Engineering College, Kattankulathur, Chennai.

- ✓ Delivered lecture in the topic "VLSI and ASIC Design" on 03.04.08 for the Faculty Development Programme on "Advanced Process Control & VLSI Design" at Valliammai Engineering College, Kattankulathur, Chennai.

Staff Development Peogramme (SDP)

   Teaching
- ✓ Delivered lecture in the topic "High Speed Arithmetic Circuits" on 07.01.08 for the AICTE sponsored Staff Development Programme on "Challenges on Advanced VLSI Design Techniques" at St.Peter's Engineering College, Avadi,Chennai.

   Non_Teaching
- ✓ Delivered lecture in the topic "Introduction to Measurements and concepts on temperature measurement" on 9.12.15 in the Staff Development Programme on. "Concepts of Measurements – Temperature, Force, Pressure, Flow and Level" at Valliammai Engineering College, Kattankulathur, Chennai.

3. Programmes attended- FDP/Worhshop/Seminar together – 20 +

4. NPTEL Courses Completed
- ✓ "Basic Electronics" conducted during Jan-Apr 2017. – Topper
- ✓ "Outcome based Pedagogic Principles for Effective Teaching" conducted during Jan- Apr 2018
- ✓ "Automatic Control" conducted during Jan-Apr 2019 (AICTE FDP)

5. Other Academic Activities
- ✓ Prepared necessary documents to start Medical Electronics Course
- ✓ Board of Studies Member – EIE department
- ✓ AICTE Cell incharge -EIE
- ✓ Project Coordinator
- ✓ Year Coordinator
- ✓ Placement Coordinator
- ✓ Lab incharge – Process Control Lab
- ✓ Academic Monitoring Committee Member- EIE
- ✓ Anti-Ragging Committee Member