

**Dr. P.C. REGHU RAJ**

**PRINCIPAL**

GOVT. ENGINEERING COLLEGE, West Hill (PO)

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### **1. Academic Profile:**

- Ph.D(Computer Science& Engg, IIT Madras, 2004.
- M. Tech(Computer& Information Sciences), CUSAT,Cochin, 1995.
- B.Tech(Computer Engineering), REC Calicut (now NIT Calicut),1990

2. Research Focus: Information Retrieval, Natural language Processing, Text Data Analytics

### 3. Recent Activities

(a) Administration of Govt. Engineering College, Kozhikode as Principal, since 5 June 2023.

(b) Administration of Govt. Engineering College, Sreekrishnapuram, Palakkad as Principal, from 8-6-2016 to 3-6-2023.

(c) PG Co-ordinator(M.Tech Computational Linguistics), Dept. of CSE, GEC Sreekrishnapuram from 2011 to 2015 Aug.

(d) Co-ordinator of CERD, GEC Sreekrishnapuram from 2010 to 2015 (Aug).

(e) Principal Investigator for the CERD project to set up an Innovation Center, GEC Sreekrishnapuram at a cost of Rs.10 lakhs in 2012. Another proposal to set up a Center of Excellence in Advanced Computing in the institution at a cost of Rs. 20 lakhs was also sanctioned by CERD during this period.

(e) Principal Investigator, AICTE under the MODROB scheme for the modernization of the Project Lab of the Dept. of CSE (Rs. 9 Lakhs, Completed, duration: 1 year). Total Grants fetched: Rs.39.0 Lakhs

### 4. Membership of Professional bodies

- Life Member, ISTE (Membership No: LM-42228)
- Member, Institution of Engineers India(Membership No: M-149201-7)
- Member(IEEE)from 2005-2011

5. Publications: 61 Nos [Thesis:1,International Journals:13, National Journals:2, International Conferences:31, National Conferences:14

Positions Held (in chronological order)

- Guest Lecturer (Computer Engineering), NIT Calicut(June-Dec 1990)
- Research Associate(Mechanical Engineering), NIT Calicut(Mar-Feb-Jul 1991)
- Lecturer (CSE), MIT Manipal (1991-1993)
- Lecturer (CSE), GEC Thrissur (1994-99)
- Asst. Professor (CSE), GEC Thrissur (1999-2003)
- Professor (CSE), GEC Palakkad (2003-2015)
- Principal, GEC Idukki (Aug 2015-Mar 2016)
- Principal, CET Trivandrum (Apr 2016-May 2016)
- Principal, GEC Palakkad (June 2016-June 2023)
- Principl, GEC Kozhikode (June 2023 onwards)

#### **Selected Publications**

- Kavitha Raju, Robert Jesuraj K, Samaj Babu George, and P. C. Reghu Raj. Information Extraction from Text through Sequence Labeling. International Journal of Advanced Research in Computer Science and Software Engineering , 3(4), Oct 2015, pp. 1-4.
- Indhuja K, Indhu M, Sreejith C and P.C. Reghu Raj. Text-Based Language Identification Sys- tem for Indian Languages Following Devanagiri Script. Int. Journal of Engineering Research & Technology (IJERT),ISSN: 2278-0181,Vol. 3 , Issue 4, April-2014
- P. C. Reghu Raj and S Raman: A Phrase Grammar-based Conceptual Indexing Paradigm. Int. Journal of Applied Artificial Intelligence, Vol.19, No.6, July 2005 (Taylor & Francis), pp.559-599.
- M. Saravanan, P.C. Reghu Raj and S. Raman. Summarization and Categorization of Text Data in High Level Data Cleaning for Information Retrieval. Special issue of the Int. Journal of Applied Artificial Intelligence, Vol.17, No.5-6/ May-July, 2003
- Radhika K. T. and P.C. Reghu Raj. Semantic Role Extraction and General Concept Understanding in Malayalam using Paninian Grammar. Int.Journal of Engineering Research and Development (IJERD).e-ISSN: 2278-067X, p-ISSN:2278-800X
- Saani.H. and P.C.Reghu Raj. Structured Information Extraction from On-line Advertisements-A Bayesian Approach. Int.Journal of Advanced Research in

Computer Science and Software Engineering (IJARCSSE), Vol.3,Issue 9, September-2013

- Rinju O.R., Rajeev R. R., Reghu Raj P.C., and Elizabeth Sherly. Morphological Analyzer for Malayalam: Probabilistic Method vs. Rule Based Method. Int. Journal of Computational Linguistics and Natural Language Processing , Vol.II Issue IX
  - Divya Das, C.Santhosh Kumar, P.C. ReghuRaj. Dysarthric Speech Enhancement using Formant Trajectory Refinement. Int.Journal of Latest Trends in Engineering and Technology, ISSN: 2278-621X. Vol. 2 Issue 4.
  - K.C. Sindhu Thampatty and P.C. Reghu Raj. A Robust DLQG Controller for Damping of Sub-Synchronous Oscillations in a Series Compensated Power System. Int.Journal of Research in Engineering & Technology.ISSN 2319 - 1163. Vol.2 Issue: 4.
  - Sreejith C and P.C. Reghu Raj:Isolated Spoken Word Identification in Malayalam using Mel-frequency Cepstral Coefficients and K-means clustering. Int.Journal of Science and Research(IJSR), India Online ISSN: 2319-7064, Vol.1 Issue 3.
  - M. Saravanan, P.C. Reghu Raj and S. Raman. Summarization and Categorization of Text Data in High Level Data Cleaning for Information Retrieval. Spl issue of the Int. Journal of Applied Artificial Intelligence, Vol.17, No.5-6(Taylor & Francis)
  - Nibeesh K, Indhuja K, and P. C. Reghu Raj. Text Based Language Identification using SVM. The Multidisciplinary Journal Carmelight,11(1):1-11, 2014, ISSN 0975-9484
  - P.C. Jyothirmayi and P. C. Reghu Raj: World of Actions through Words of Actions: The National Journal Carmelite, Vol.8(2):127-132, Nov 2011 (published by Mount Carmel College, Bangalore).
  - Nisha M, Reji Rahmath K, Rekha Raj C.T, and P.C.Reghu Raj. Malayalam morphological analysis using MBLP approach. In Proc. IEEE International Conference on Soft-Computing and Networks Security (ICSNS) 2015. pp.1 - 5, DOI: 10.1109/ICSNS.2015.7292387.
- Kavitha Raju, Vidya P.V and PC Reghu Raj. Tamil to Malayalam Transliteration. In Proc. 5th Int. Conf. on Advances in Computing and Communications (ICACC-2015), Rajagiri School of Engineering and Social Sciences

- Sreetha S, Raveena R Kumar, Anagha M, and PC Reghu Raj. Fuzzy Logic Based Hybrid Approach for Sentiment Analysis of Malayalam Movie Reviews. In Proc.IEEE SPICES 2015,19-21 February 2015 at National Institute of Technology (NIT Calicut)
- K.C. Sindhu Thampatty and P.C. Reghu Raj. Design and Implementation of RTRL based Adaptive Controller for TCSC and TCPAR for Stability Enhancement. In Proc. of the Int.Conf on Smart Grid Technologies (ICSGT 2015), Amrita University, Coimba
- Alen Jacob, Amal Babu, and PC Reghu Raj. TnT Tagger with Fuzzy Rule Based Learning. IEEE SPICES 2015,19-21 February 2015 at National Institute of Technology (NIT Calicut)
- Design and Implementation of RTRL Based Adaptive Controller for TCSC to Enhance Power System Stability. Authors: Dr.Sindhu Thampatty K.C, P.C Reghu Raj. Accepted for presentation in IEEE TENCON 2016, Singapore.
- Sindhu Thampatty K.C. and P.C. Reghu Raj. Design and Implementation of RTRL Based Adaptive Controller for TCSC to Enhance Power System Stability. In Proc.IEEE TENCON 2016, 22-24 Nov 2016, Singapore.
- Sindhu Thampatty K.C. and P.C Reghu Raj. RTRL Based Adaptive Neuro-Controller for Damping SSR Oscillations in SCIG Based Windfarms. IEEE TENCON 2017, 5-8 Nov 2017, Penang, Malaysia.
- Aswathy M.R and P.C Reghu Raj. Eigen Analysis based Document Summarization. In Proc. of 4th IEEE International Conference on Control, Communication and Computing (IC4-2018), College of Engineering, Trivandrum, 5-7 July 2018.
- Deepa C.A., Reghu Raj P. C, and Ajeesh Ramanujan. Relation Extraction Using Deep Learning Methods: A Survey, ICTACT Journal on Soft Computing, Vol. 9, Pages: 1893-1902, April 2019.
- Deepa C. A, Reghu Raj P. .C and Ajeesh Ramanujan. Relation Extraction across Sentences using Bi-directional Long Short Term Memory Networks. In Proc. IEEE International Conference on Emerging Trends in Information Technology and Engineering 2020, pages: 1-6, VIT Vellore, 2020.
- Aswathy M.R. and P.C. Reghu Raj. Eigen Analysis Based Document Summarization. In Proc. 4th International Conference on Control Communication and Computing (IC4 2018), CET Trivandrum, July-2018, pp.399-403.

- Reji Rahmath K, P.C Reghu Raj, and Rafeeqe P.C. Pre-trained Word Embeddings for Malayalam Language: A Review . In Proc. IEEE Int. Conf. on Artificial Intelligence and Smart Systems (ICAIS-2021), 25-27 Mar 2021, JCT College of Engg, Coimbatore.
- Deepa C A, PC ReghuRaj, and Ajeesh Ramanujan. Improving Relation Extraction Beyond Sentence Boundaries Using Attention. AIP Conference Proceedings 2336, 040004 (2021); <https://doi.org/10.1063/5.0046136>, Mar 2021.
- Anuja K, P.C. Reghu Raj and Remesh Babu K.R. State-of-the-Art Methods for Fine Grained Emotion Detection from Malayalam Text using Deep Learning : A Survey. Presented in the 2022 THIRD IEEE International Conf. on ISSUES AND CHALLENGES IN INTELLIGENT COMPUTING TECHNIQUES, (ICICT-2022), KIET Group of Institutions, Ghaziabad. Nov 11-12, 2022
- Sincy V Thambi and P.C. Reghu Raj. Graph Based Document Model and its Application in Keyphrase Extraction. In Proc. IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (IEEE SPICES 2022), MBCET Trivandrum, Mar 10-12, 2022
- Sincy V Thambi and P.C. Reghu Raj. Towards Improving the Performance of Question Answering System using Knowledge Graph - A Survey. In Proc. IEEE International Conference on Artificial Intelligence and Smart Systems (IEEE ICAIS 2022) JCT College of Engineering, Coimbatore, Feb 23-25, 2022.
- Reji Rahmath K, PC Reghu Raj and Rafeeqe PC. Pre-trained Word Embeddings for Malayalam Language: A Review. In proc. of the IEEE International Conference on Artificial Intelligence and Smart Systems (ICAIS), pages 567-571, March 2021.
- Rahmath K, R., Reghu Raj, P. C., and P.C, Rafeeqe. (2022). Malayalam Question Answering System Using Deep Learning Approaches. IETE Journal of Research, 1-13. DOI: 10.1080/03772063.2022.2077846 [SCIE Indexed]

#### Positions Held:

- Member, Faculty of Engineering, Cochin University of Science & Technology, Kochi
- Approved Research Guide under APJ Abdul Kalam Technological University
- Chairman, Doctoral Committee (for NSSCE Palakkad and GEC Kozhikode) under KTU

- Member, Executive Committee, IEI Calicut Chapter
- Chairman (BoE), M.Tech (Computational Linguistics), Calicut University
- Coordinator (CERD) and Principal Investigator(Innovation Center), GEC Palakkad
- Co-ordinator (PG), CSE, GEC Palakkad
- Principal-in-Charge, GEC Palakkad during various periods
- Liaison Officer, National Knowledge Network, from June 2011-Aug 2015, GEC Palakkad
- Co-Ordinator, Visiting Faculty Program, GEC Palakkad (2008-2012)
- Co-Ordinator, STEP4U Program, GEC Palakkad (2009-10)
- Co-Ordinator, Industry-Institute Interaction Cell, GEC Palakkad (2010-12)
- Counselor, IEEE Students Branch, GEC Palakkad (2006-2011)

#### **Areas of Interest:**

Computational Linguistics, Information Retrieval, Text Data Mining

#### **Invited Talks/Extension Lectures delivered (15 Nos)**

- Workshops/Seminars/Short Term Courses attended: 24
- Courses/Programs organized: 9
- Projects supervised: M. Tech-25, B.Tech-50, Diploma-1.

#### **Consultancy Services**

- Banking Computerization Project, Cherpulassery Service Co-Operative Bank(2006-2008):Est.Rs.10.0 Lakhs (completed)
- Information System for PWD(Electrical Wing), Thrissur(2008-2009) as Voluntary service.
- Hospital Management System for PHC, Kadambazhipuram(2009-10) as Voluntary service

#### **Achievements:**

- Nedumpally Memorial Award for the best poem by Kavanakauthukam Magazine,2002
- Best Paper Award, National Seminar on Convergence of Technologies by 2010 (CONTECH-2010), Thiruvannamalai, Jan 2001.

- First Prize in the Calicut District School Youth Festivals in the item Aksharaslokam during 1981, 1982, and 1983
- First Prize in Versification competition held in connection with the Exhibition conducted by the Corporation of Calicut, 1981 and 1982.