

**Dr. S Padmaja**  
Head of the Department  
Computer Science and Engineering

csehod@kmit.in

+91 9848312890

### Profile

- Over 15 years of teaching and research experience in computer science
- Offering courses on PPS, MFCS, OS, OOAD, C, DM, AI, IRS, ML, Research Methodology at graduate and undergraduate levels
- Guiding graduate and undergraduate projects
- Published research articles in text mining and a monograph on embedded systems
- Reviewed various international conference papers and book chapters
- Delivered invited lectures, conducted workshops and made presentations at Defense Labs and various Educational Institutions

### PhD

“Extracting Voter Sentiment for Indian General Election Forecast using NLP Techniques”.

### Research Interest

Sentiment Analysis, Natural Language Processing, Machine Learning & Artificial Intelligence

**Google Scholar Profile:** <http://url.ie/1ejkt>

**Professional membership:** Life Member Computer Society of India (CSI).

### Educational Background

**Ph.D.** in Computer Science and Engineering from UCE, Osmania University, 2017

**M.Tech.** in Computer Science and Engineering from UCE, Osmania University, 2010

### Projects Supervised

| M. Tech Projects |  |                       |            |
|------------------|--|-----------------------|------------|
| S.No             | Project Title  | Organization/Industry | Batch size |
| 1.               | Opinion Mining for Hindi Book Reviews  | Osmania University    | 1          |
| 2.               | Scope of Negation Identification in News Articles                              | Osmania University    | 1          |
| 3.               | Sentiment Classification of Twitter Messages using Machine Learning Techniques | Osmania University    | 1          |
|                  |  |                       |            |

| <b>B. Tech Projects</b> |   |   |   |
|-------------------------|---|---|---|
| 4.                      | Extending a semantic e-governance grid with OKM (Object Knowledge Model)      | IIIT Allahabad-Summer Intern            | 1 |
| 5.                      | Swasthiya Sewaye  | Keshav Memorial Institute of Technology | 4 |
| 6.                      | Lab Report Digitalization/OCR   | Keshav Memorial Institute of Technology | 4 |
| 7.                      | Early Prediction of Sepsis from Clinical Data                                 | Keshav Memorial Institute of Technology | 4 |
| 8.                      | COLOCACION: Job Recommendation System   | Keshav Memorial Institute of Technology | 4 |
| 9.                      | Taxo Finder   | Keshav Memorial Institute of Technology | 4 |
| 10.                     | Enhanced Cloud Access Control Methodology by Preventing Sensitive Information | Keshav Memorial Institute of Technology | 4 |
| 11.                     | Enabling Cloud Storage Auditing With Verifiable Outsourcing Of Key Updates    | Keshav Memorial Institute of Technology | 4 |
| 12.                     | Extracting Sentiments From News Articles Using IBM SPSS Text Analysis         | Osmania University                      | 4 |
| 13.                     | Comparison of Sentiment Analysis through Scope Modelling in News Articles     | Osmania University                      | 4 |
| 14.                     | Sentiment Analysis on News Articles   | Osmania University                      | 4 |
| 15.                     | Sentiment Analysis on the News Articles for 2014 Indian Elections             | Osmania University                      | 4 |
| 16.                     | Opinion Mining on Newspaper Quotations  | Osmania University                      | 4 |
| 17.                     | Extracting sentiments from news articles using text analytics                 | Osmania University                      | 4 |

## **Publications**

### **Research monograph**

“Application and Analysis of Security Algorithms on Embedded processors.” Published by VDM Publishing House, Germany, date- September 13, 2011. ISBN: 978-3-639-37516-9.

### **Book Chapters**

- **S Padmaja**, S Sameen Fatima, Sasidhar Bandu, M. Nikitha and K. Prathyusha, “Sentiment Extraction from Bilingual Code Mixed Social Media Text”, Advances in Intelligent Systems and Computing, ISSN: 2194-5357, Volume 1079.
- **S Padmaja**, S Sameen Fatima, B. Sasidhar, “Text Processing of Code Mixed Telugu-English Twitter Data”, Journal of Computer Science and Technology, Springer publications, ISSN: 1860-4749.
- **S Padmaja**, Sasidhar Bandu, S Sameen Fatima, “Text Processing of Telugu-English Code Mixed Languages”, Advances in Decision Sciences, Image Processing, Security and Computer Vision, ISBN 978-3-030-24321-0, 2019.

### **Research Papers Published in:**

#### **1) International Conference Proceedings:**

- Sasidhar Bandu, **Padmaja S**, “Engaging the Digital Age Learners with Engaging Digital Applications”, 5<sup>th</sup> AINET International Conference Hyderabad, 10-11 January 2020.
- **Padmaja S**, Sasidhar B and Sameen Fatima S, “Associating News Articles to Identify the Scope of Negation and Sentiments of Public Opinion”, “International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)” with IEEE conference record number # 43456, 28-29 Jan 2018, paper code: 01-2018-1617.
- **S Padmaja**, B Sasidhar, S Sameen Fatima, Vaibhav S L, “Extracting greater semantics from texts with Object Knowledge Model”, IEEE International Conference on Innovative Technologies in Engineering”, University College of Engineering, Osmania University, Hyderabad, India, 1<sup>st</sup>-1<sup>3th</sup> April- 2018.
- **S Padmaja**, Prof. S Sameen Fatima, Sasidhar Bandu “Extracting Voter Sentiment From Indian Online News Articles Using NLP Techniques”, ICON 2016 Workshop, IIT – BHU, Varnasi, 17<sup>th</sup> December 2016.
- **S Padmaja**, S Sameen Fatima, Sasidhar Bandu, B Sowmya, “Comparison of the Scope of Negation in Online News Articles”, IEEE Conference Publications, International Conference On Computing & Communication Technologies (ICCT- 2014), 11-13 December 2014. *ISBN*: 9781479967599 1479967599

- **S Padmaja**, S Sameen Fatima, Sasidhar Bandu, Pooja, “Analysis of Sentiment on Newspaper Quotations: A Preliminary Experiment”, IEEE Conference Publications, Computing, Communications and Networking Technologies (ICCCNT), Fourth International Conference On Digital Object Identifier: 10.1109/ICCCNT.2013.6726650 , Page: 1 – 5, 2013. ISBN: 9781479939275 1479939277, July 4-6,2013.

## 2) International Conference Proceedings (Held Abroad):

- **S Padmaja**, S Sameen Fatima, Sasidhar Bandu, “Comparing and evaluating the sentiment on newspaper articles: A preliminary experiment”, IEEE Conference Publications, Science, London, UK, on DOI: 10.1109/SAI.2014.6918276, ISBN: 978-0-9893-1933-1, pages: 789 – 792, date – August 29, 2014.

## 3) International Journals:

- **S Padmaja**, Sasidhar Bandu, Deepa Ganu, S Sameen Fatima, “Analyzing Sentiment and Determining Negation Scope in Political News”, International Journal of Computer Sciences and Engineering, E-ISSN:2347-2693, 2019.
- Firdous Hussaini, **S. Padmaja**, S. Sameen Fatima, “Score-based Sentiment Analysis of Book Reviews in Hindi Language”, International Journal on Natural Language Computing (IJNLC) Vol.7, No.5, October 2018.
- **S Padmaja**, Sasidhar Bandu and S Sameen Fatima, “Textual Analysis of Big Data with Object Knowledge Model: A Knowledge Representation framework”, Visleshana, the flagship publication of Computer Society of India, Special Interest Group on Big Data Analytics (SIGBDA), Visleshana, Vol. 2 No. 2, January - March 2018.
- **S Padmaja**, S Sameen Fatima, Sasidhar Bandu, “Evaluating Sentiment Analysis Methods and Identifying Scope of Negation in Newspaper Articles”, International Journal of Advanced Research in Artificial Intelligence, (IJARAI), The Science and Information (SAI) Organization, Pg. 1-6, Volume 3 Issue 11 November 2014. **ISSN : 2165-4069(Online); U.S ISSN : 2165-4050(Print)**
- **S Padmaja**, S Sameen Fatima, “Opinion Mining and Sentiment Analysis –An Assessment of Peoples’ Belief: A Survey”, International Journal of Ad hoc, Sensor & Ubiquitous Computing (IJASUC) Vol.4, No.1, February 2013. **ISSN : 0976 - 1764 (Online); 0976 - 2205 (Print)**

## 4) National Conference Proceedings:

- **S Padmaja**, “Implementation and Comparison of AES and RC4 Security Algorithms for Real Time Data on Embedded Processor.” ICICCA proceedings, 2010, 542-547.
- **S Padmaja**, “Home Security and Automation through Mobiles.” Recent Developments in Computing and its Applications. NCRDCA 2009, 575-582.

**Contribution to academic leadership, awards and recognition:**

- BoS member for B.Sc. (Data Science) and P.G.Diploma in Data Analytics (PGDDA) since June 2020.
- Convenor for the Webseries on Bio Medical Imaging on 16<sup>th</sup> and 17<sup>th</sup> June 2020
- Convenor for the Webinar on the Future of Cyber Policing and Career Opportunities June 2020.
- BoS member for AI branch @ NJIT since 2019
- Convener of Institutional Innovation Council (2018-19)
- Awarded CSIR Senior Research Fellowship (SRF) 2012 – 2016.
- Certified in “Python Data Structures” offered by University of Michigan on Coursera. 2015
- Certified in “Programming for Everybody (Python)” offered by University of Michigan on Coursera. 2014
- Awarded NCERT Scholarship in R.I.E. Bhopal 1994 to 1998

**FDP Conducted:**

- Conducted FDP on Operating Systems (TESSELLATOR) for a group of junior faculties @ KMIT campus from **20<sup>th</sup> June 2017 to 30<sup>th</sup> June 2017.**

**Invited Lectures @ FDPs and Workshops:**

- Invited Speaker for an FDP on Computational Intelligence at MJCET, HYDERABAD, 8-Jan-2020.
- Delivered a Lecture on “The Emerging Research in Cross Language Information Retrieval” at One Week FDP on Computational Intelligence, 06-11 Jan-2020 at CSED, MJCET, Banjara Hills, Hyderabad.
- Delivered a Guest Lecture on “Artificial Intelligence” on 12<sup>th</sup> February, 2019 at Department of CSE, Osmania University.
- Lecture on “Sentiment Analysis”, in a Specialized Training course on ‘Data Mining and Analysis Techniques’ for Scientists of various DRDO laboratories/ establishments at RCI from 29<sup>th</sup> June – 3<sup>rd</sup> July 2015.
- Clustering Techniques at Andhra Mahila Sabha, OU from 15<sup>th</sup> June 12 to 19<sup>th</sup> June 12.

**Featured Presentation:**

- “Science for Shaping the Future of India” at a National Seminar organized by ISCA (Indian Science Congress Association), **Nov 28 - 29, 2012.**

## **Review Work**

### **In Technical Program Committees (TPCs):**

- **Reviewer of IEEE International Conference on Innovative Technologies in Engineering 2018**
- Reviewer of International Conference on Microelectronics, Computing and Communication 2016
- Reviewed of International Conference on Computing and Communication Technologies 2014

### **Reviewer for Journals and Books:**

- Reviewer of International Journal of Engineering & Technology 2018
- Reviewed book chapters in “Sentiment Analysis and Ontology Engineering: An Environment of Computational Intelligence”, ISBN 978-3-319-30319-2

### **Summer School:**

- 5<sup>th</sup> Advanced NLP Summer School 2014 at IIIT Hyderabad, India (Jointly organized by LTRC and CESP), <http://ltrc.iiit.ac.in/iasnlp2014>, **July 1-15, 2014**

### **Conferences and Workshops Attended:**

- “NPTEL Workshop” conducted at CLT, IIT Madras on 25 Jan 2020.
- “IEEE International Conference on Innovative Technologies in Engineering”, University College of Engineering, Osmania University, Hyderabad, India, 11<sup>th</sup>-13<sup>th</sup> April- 2018.
- GIAN course on “Big Data Analytics for Humanitarian Causes”, University College of Engineering, Osmania University, Hyderabad, India, 20 Nov-27 Nov 2017.
- “International Conference on Fog computing and Internet of Things”, KMIT, Dec 21-22 2017.
- 12<sup>th</sup> International and 48<sup>th</sup> ELTAI (English Language Teachers Association of India) Annual Conference on the theme “English Language Acquisition: Western Theories and Eastern Practices”, Kerala, **29<sup>th</sup> June to 1 July 2017.**
- ICON 2016: 13<sup>th</sup> International Conference on Natural Language Processing, Indian Institute of Technology (Banaras Hindu University), India, December 17-20, 2016.
- “The 8<sup>th</sup> IEEE International Conference on Technology for Education, Indian Institute of Technology Bombay, Mumbai, December 2-4, 2016.”

- “Advance Course Workshop Series” at EnhanceEdu, IIIT Hyderabad, India, April 24-26, 2014.
- “Faculty Development Program On Data Mining” AMS School of Informatics and Department of CSE, Osmania University in association with IEEE Computer Society of Hyderabad from 27<sup>th</sup> Feb 2012 to 2<sup>nd</sup> Mar 2012.
- “Writing Effective Conference Papers”, Under the National Mission on Education through ICT, Conducted by IIT Bombay from 18<sup>th</sup> Feb 2012 to 19<sup>th</sup> Feb 2012.
- “Engineering Research Methodology” ,Conducted by the Department of Mechanical Engineering, OUCE, Osmania University, Hyderabad-500007, during 2<sup>nd</sup> Feb 2012 to 4<sup>th</sup> Feb 2012.
- “Software Development techniques for Teachers of Engineering and Science Institutes”, Under the National Mission on Education through ICT, Conducted by IIT Bombay from 5<sup>th</sup> Nov 2011 to 4<sup>th</sup> Dec 2011.
- “Embedded Systems Concepts and Emerging Technologies” by TCS and OUCE on 26 May 2011.
- “A practical and Industry Approach to Advanced Software Engineering” by TCS and OUCE, Hyderabad on 25 May 2011.
- “Research Trends in Computer Science” by MJCET, Hyderabad on 4-5 March 2011.
- “Data and Web mining” by ACE Engineering College on 1- 3 Dec 2010.
- “Soft Computing” by OUCE, Hyderabad and Govt. Institute of Electronics, Secunderabad on 30-31 March 2009.
- XVI congress on Mathematical Sciences, organized by NGRI, Hyderabad on 8-10 Dec 2007.
- “Personality Development and Entrepreneurship Awareness Programme” by JNTU from 1 to 17 May, 2004.
- Actively participated in the workshop entitled “Analysis Of Mistakes Committed In Mathematics By 1st And 2nd Standard Students” (Nov 1996 – Dec 1996)