

PROFILE

Dr. S. Uma

Contact Address:

Professor
Department of Computer Applications
BMS College of Engineering,
Bull Temple Road,
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Education:

- **Ph.D - Web Services**
Visvesvaraya Technological University
Passed Year: 2020 | Program Type: PartTime
- **M.Phil., - Computer Science**
Madurai Kamaraj University
Passed Year: 2005 | Program Type: PartTime
- **M.C.A - Computer Applications**
Bharathidasan University
Passed Year: 1998 | Program Type: FullTime
- **B.Sc., - Computer Science**
Bharathidasan University
Passed Year: 1995 | Program Type: FullTime

PhD - Title of Thesis:

Web Services using Multi Agent System

Academic Experience:

- 20-03-2023 to till date : Professor, Department of Computer Applications,
B.M.S College of Engineering, Bangalore.
- 23-08-2008 to 20-03-2023: Associate Professor, Department of Computer Applications,
B.M.S College of Engineering, Bangalore.
[**HoD** from 21-04-21 to 07-02-22]
- 23-08-2005 to 23-08-2008: Assistant Professor, Department of Computer Applications,
B.M.S College of Engineering, Bangalore.
- 19-02-1999 to 23-08-2005: Lecturer, Department of Computer Applications,
B.M.S College of Engineering, Bangalore.
- 08-12-1998 to 18-02-1999: Lecturer, Department of M.C.A,
Dayananda Sagar College of Engineering, Bangalore.
- 15-06-1998 to 28-10-1998: Lecturer, Department of M.C.A,
Shanmuga Engineering College, Thanjavur

Publication Details

- [1] V. Padmapriya, Ranganath B.S., S. Uma, Unload Junk: A Mobile Application for Recyclable Waste Scheduled Pickup. *International Journal of Computer Applications*. 186, 22 (May 2024), 25-30. DOI=10.5120/ijca2024923658
- [2] S Uma, S Prateeksha, V Padmapriya, "A Two-Phase Approach for Efficient Traffic Sign Detection and Recognition", *Indian Journal of Science and Technology*, ISSN: 0974-5645, Volume.17, Issue 12, pp. 1203-1212, March 2024.(Web of Science Indexed)
- [3] P. S, S. C, V. Padmapriya and S. Uma, "Sahayaka: A fake currency detector application for visually impaired individuals," 2024 IEEE International Conference for Women in Innovation, Technology & Entrepreneurship (ICWITE), Bangalore, India, 2024, pp. 9-14, doi: 10.1109/ICWITE59797.2024.10502947.(Scopus Indexed)
- [4] Mulla Arshiya, N Sahana, V Padmapriya, S. Uma, "Grey Water Reuse: A sustainable solution to urban water management", in *Tanz Research Journal*, Volume 10, Issue 1, 2024, Page No.192-197, ISSN. NO : 1869-7720, DOI:10.6084/doi.24.10.1.TANZ21851.(Scopus Indexed)
- [5] S Uma, Sandhya C, V Padmapriya, "Deep Learning For Medicinal Plant Leaf Classification: A Hybrid Approach", *International Journal of Applied Engineering & Technology*, Volume 5, No.4, Dec 2023, Page No: 995 -1005. ISSN: 2633-4828 (Scopus Indexed)
- [6] S Uma, S Sridhar, S Sumathi, "Nowcasting of Weather Parameters Impacting Solar PV Output Using Grey System Model", *Indian Journal of Science and Technology*, ISSN: 0974-5645, Volume.16, Issue 11, pp. 829-838, March 2023 (Web of Science Indexed)
- [7] S. Uma, Dr. D. Evangelin Geetha "An Integrated Multi-Criteria Decision Making Model for Cloud Service Provider Selection", *International Journal of Decision Support System Technology*, ISSN (Print) 1941-6296, Volume 14, Issue 1, Article 21(2022) (Web of Science and Scopus Indexed)
- [8] S. Uma, Dr. D. Evangelin Geetha, Dr.T. V. Suresh Kumar, "Analysis of User driven Availability and Resource level Availability for a Composite Web Service." *International Journal of Applied Engineering Research* ISSN 0973-4562 Volume 12, Number 24 (2017) pp. 15902-15913 (Scopus Indexed)
- [9] Uma, S., D. Evangelin Geetha, and TV Suresh Kumar. "Prediction of Web Service response time using Grey system model." In *Applied and Theoretical Computing and Communication Technology (iCATccT)*, 2016, pp. 139-143, IEEE, 2016. (Scopus Indexed)
- [10] S. Uma, Dr. D. Evangelin Geetha, Dr.T. V. Suresh Kumar "Performance Assessment of Web service: A Neural Network Approach." *International Journal of Computer Application* (2250- 1797) Volume 5– No. 6, 57-76(2015)
- [11] S. Uma, D. Evangelin Geetha, Dr.T. V. Suresh Kumar. "A Study on Applicability of Agents to the Evolution of Web." *International Conference on Advances in Computer Science and Information Technology (ACSIT'14)*.
- [12] S. Uma, Dr. D. Evangelin Geetha, Dr. T. V. Suresh Kumar. "Dynamic load balancing for web services using Service Level Agreement based Scheduling Policy." *International Journal of Computer Information Systems*, Vol. 7, No.2, 2013.
- [13] S.Uma, D. Evangelin Geetha, Dr. T. V. Suresh Kumar, Dr. K. Rajanikanth. "Critical Issues of Cloud Computing" *International Conference on Cloud Computing and Service Engineering (CLUSE-2012)*, 346-352, jointly organized by Rajarajeswari College of Engineering, Bangalore and Kingston University, UK.
- [14] S. Uma, D. Evangelin Geetha, Dr. T. V. Sureshkumar, Dr. K. Rajanikanth. "Use Case driven modeling for Video Conference System." 87-96, 2nd National Conference on Software Engineering, NCSE'09.

Reviewer of International Journal/Conferences:

- Reviewed two papers for IEEE Access Journal (Paper IDs: Access-2020-01823, Access-2019-28585) (Impact Factor- 4.098)
- Reviewer for ICETCS2024, CONECCT2023, CSIT2022, CSITSS2023

Membership to the Professional Bodies & Professional Body Activities:

1. *Life Member of ISTE(LM32795)*
 2. *IEEE Senior Member: 92290985*
 3. Life Member of Advanced Computing and Communications Society(ACCS):L171F0900205
- **Technical Programme Committee and Publication Chair** for First IEEE International Conference on Communications and Computer Science-2024 (InCCCS-2024) Date of Conference: 22nd – 24th May, 2024 at BMSCE, Bangalore, Conference Record #60947
 - Received the *Service Excellence Award* on 06-01-2024 from the IEEE Information Theory Society(ITS) Bangalore chapter
 - **Track Chair** for the 9th International Conference on Electronics, Computing and Communication Technologies, IEEE CONECCT(July 14-16, 2023)

Patent Published:

Indian Patent Application no. 202141060579

Title: AN ELECTRONIC FOOD ORDERING DEVICE WITH IOT CONNECTIVITY AND METHOD THEREOF

Publication Date: 07-01-2022

Reply to FER Date: 08-09-2022

MoUs with Industry:

1. Signed an MoU with ITDay Solutions on 27-10-2021
2. Signed an MoU with Gogappi Pvt Ltd on 06-01-2021
3. Signed an MoU with Novell on 25-04-2014

Resource Person:

- Resource person for the one-day workshop on "Overview of NBA Process for MCA" organized by Kongu Engineering College, Perundurai, Erode on 4th April 2024
- Conducted a hands-on workshop titled "Introduction to Python" for the students of I Semester MBA, BMSCE on 15-04-2023.
- Conducted a hands-on workshop titled "Introduction to Programming" for the students of I Semester MBA, BMSCE on 12-04-2023
- Delivered a session on Computing the Attainment of CO/PO & Continuous Improvement through the Attainments Calculation in the Practices in Outcomes Based Education Workshop on 25-03-2023 at B.M.S. College of Engineering, Bangalore.
- Panelist at the Research Conclave-2022, held at the School of Computer Science & IT, Jain Deemed to be University on 29-09-2022

- Delivered a session on "Python Programming" for the event "Words of Wisdom" held at the Department of Computer Science, School of Sciences - Block 2, Jain Deemed to be University on 26-08-2022
- Delivered a session on "Google Suite" for Education for the FDP on "Essential IT Skills as a part of Train the Trainers Programme" conducted by B.M.S College of Law & B.M.S College of Engineering (01-02-21 to 08-02-21).

Value-Added Courses Organized:

- **Course on Machine Learning**
 - Duration: 30 Hours(October 2019 to November 2019)
 - Resource Person: Mr. Muthuram Govindarasu
CEO and Founder, Indigeneous Tech Private Limited, Bangalore
 - Outcome: Six students got Internship through this Course
- **Course on Data Analytics**
 - Duration: 16 Hours(August 2018 to December 2018)
 - Resource Person: Dr. Gopal Sharma,
Director - Digital Channels, Fiserv India Limited, Bangalore
 - Outcome: Industrial Visit to Fiserv
- **Course on Manual Testing and Test Automation**
 - Duration: 30 Hours(February 2017 to June 2017)
 - Resource Person: Mr. Sreenivas Murthy N H,
Manager- Testing, Fiserv India Limited, Bangalore
 - Outcome: Four students got Internship & placements through this Course

Value-Added Courses Conducted:

- **Course on Computer Networks**
 - Duration: **36 Hours** (8-12-22 to 17-02-23, Every Thursday from 11AM to 4PM)
 - Resource Person: Dr. D. N. Sujatha, Dr. S. Uma, Prof. Girish. K, Prof. V. Padmapriya
 - Participants: 3rd Semester BCA students of BMS College of Commerce and Management

Department Level Contribution

- Served as **HoD** from 21-04-21 to 07-02-22
- Member of Department Academic Committee(From 2016 to till Date)
- Member of BOE(From 2016 to 2022)
- Member of BOS(From 2016 to till date)
- NBA Co-ordinator (2015,2016, From 2022 to till date)
 - Actively participated in NBA work and also uploaded the SAR along with Dr. D.N. Sujatha.
 - Completely handling the Survey of Alumni and Employer for NBA Purpose
- Member of Entrepreneurship Development Cell(2017-2018)
- Prepared Department Brochure for the Academic years 2019-20 and 2020-21
- Faculty Coordinator for the Department Magazine Stride(2020)
- Industrial Visit Co-ordinator (2015-2016)
- Time Table Co-ordinator(2014-2015)

- Seminar/Workshop Co-ordinator(2013-2014)
- Member of Industry Institution Interaction Cell(IIIC)
- Prepared Question Paper for Competitive Exam -2020 (Work was assigned through HoD)
- Active Participation in Phase Shift as Faculty Co-ordinator for the following events
 - Byteblitz(2023)
 - Data Wranglers(2022)
 - Stress Your Brain(2019)
 - Space Prueba (2018)
 - Department Stall(2017)
 - Financial Co-ordinator(2016)
 - TechWhiz(Quiz) (2015)

Institute Level Contribution

- Library Committee Member (From 25-05-22 to till date)
- Anti-Ragging Committee Member from 2014 to 2020
- Member of the Publications Committee at the International Advance Computing Conference, June 12-13, 2015 organized by the Computer Cluster of BMSCE.
- Sponsorship Committee Member for 2nd International Conference on Transformations in Engineering Education, January 5 to 8, 2015, BMSCE, Bangalore.
- VTU Exam Coordination
- Squad Duty for CIE and SEE

Interaction with other Academic Institutes:

- BoS Member at RV University(2024)
- BoE Member at Ramaiah Institute of Technology, Bangalore(2024)
- BoE Member at Department of MCA, SIT, Tumkur(2021 onwards)
- BoE Member at Department of MCA, BMS Institute of Technology and Management, Bangalore(2022, 2023)
- BOE Member at Department of MCA, RV College of Engineering, Bangalore(2021, 2022)
- BOE Member at Department of Computer Science, National College, Bangalore (2019, 2020, 2021,2022)
- BOE Member at Department of MCA, Dayananda Sagar College of Engineering, Bangalore (2016, 2017, 2023, 2024)
- Organizing Committee Member for 3rd National Conference on Software Engineering (NCSE'14), 20th and 21st February 2014, organized by the Department of Computer Applications, MSRIT, Bangalore.

Courses Handled:

- Data Analytics using Python
- R Programming
- Computer Networks
- Web Services
- Service Oriented Architecture
- Python Programming
- Software Project Management

- Object-Oriented Modeling and Design Patterns
- Object Oriented Programming using C++
- Data Structures
- Computer Organization
- Unix
- Systems Programming
- Computer Graphics
- Micro Processors

Selected MOOC Courses/FDPs Attended

Sl.No.	Course Name	Duration	Organized by
01	Generative AI for Educators: Revolutionizing Education	September 23 rd to 27 th , 2024	Somaiya Vidyavihar University, Mumbai
02	Enhancing Research Impact: Tools and Techniques for Effective Publishing	September 9 th to 14 th , 2024	Sai Nath University, Jharkhand & RSP Science Hub, Coimbatore
03	Robotic Process Automation Design and Development	March 25 th to 30 th , 2024	Department of Computer Science and Engineering in collaboration with BMSCE IEEE Student Branch
04	Viksit Bharat 2047- Role of Engineering Faculty	29 th January to 02 nd February 2024	Rajiv Gandhi University of Knowledge Technologies - IIIT, RKValley & Anantha Lakshmi Institute of Technology and Sciences Anantapur, AP.
05	Recent Trends in Cybersecurity & Blockchain Technology	20 th to 25 th March 2023	Department of Computer Science & Engineering in association with Indian Society for Technical Education, BMSCE, Bangalore
06	Wearable Devices	17 th to 21 st January 2022	ATAL Academy at St.Joseph's College of Engineering and Technology, Palai, Kerala(Online)
07	Mathematics for Machine Learning: Linear Algebra	12 th July to 6 th August 2021	Coursera
08	FDP on Smart City Solutions for Sustainable Future	2 nd to 06 th August 2021	ATAL Academy at BMS College of Engineering(Online)
09	NBA and NAAC Accreditation Process	4 th to 8 th June 2020	AICTE Margdarshan Scheme
10	Applied Social Network Analysis in Python	9 th to 15 th October 2020	Coursera
11	Applied Text Mining in Python	10 th to 17 th September 2020	Coursera
12	Applied Machine Learning in Python	10 th to 17 th August 2020	Coursera
13	Applied Plotting, Charting & Data Representation in Python	15 th to 21 st July 2020	Coursera
14	Introduction to Data Science	1 st to 8 th June 2020	Coursera
15	MOODLE Learning Management	4 th to 9 th May 2020	IIT Bombay, funded by National

			Mission on Education through ICT, MHRD, Govt. of India
16	Practical Approaches for Engineering Courses from Industry Perspective	22 nd to 26 th July 2019	BMSCE
17	Software Project Management	Jul-Oct 2019 (12 Weeks)	NPTEL-AICTE Awarded <i>silver medal</i> from NPTEL (One among the <i>Top 2% of certified candidates</i>)

DECLARATION

I hereby declare that all the above-furnished information is true & it is best of my knowledge.

Place: Bangalore-19

(S. UMA)