H.K.E Society´s

Poojya Doddappa Appa College of Engineering, Kalaburagi

FACULTYPROFILEFORMAT

Personal Details	
Name: Dr. Shridevi Soma	
Designation: Professor	
Department: Computer Science & Engineering	
CollegeAddress: Aiwan-E-Shahi Road, Kalaburagi	
Contact: 9449639017	
E-mail id(college mail id): shridevisoma@pdaengg.com	

Areas of Interest	Image Processing & Pattern Recognition, IoT, Cloud Computing.

Subjects Taught	
UG	**PG**
Data Structures(Theory & Lab)	Mobile Communication
Mathematical Foundations of Computer Science	Software Engineering and Quality Assessment
Finite Automate & Formal Languages	Digital Image Processing
Software Engineering	Internet of Things
Database Management Systems(Theory & Lab)	Advanced Data Structures and Algorithms
Principles of Programming Languages	Cloud Computing
Compiler Design	Machine Learning
Introduction to C Programming(Theory & Lab)	
Java Programming	
Principles of Programming with C(Theory & Lab)	

Unix System Programming	
C and UNIX Programming(Theory & Lab)	
Computer Architecture	
Object Oriented Programming with C++	
Object Oriented Analysis & Design	
Building Enterprise Applications	
Cloud Computing	

Academic Background				
Degree	Specialization	Name of the Institute	University	Monthand Yearof Passing
Ph.D.(CSE)	Image Processing & Pattern Recognition	Gulbarga University, Gulbarga	Gulbarga University, Gulbarga	December 2016
M.Tech.	Computer Science & Engineering	P.D.A College of Engg. Kalaburgi	Visveswaraya Technological University, Belagavi	June 2010
B.E	Computer Science & Engineering	K.B.N College of Engg. Kalaburgi	Visveswaraya Technological University, Belagavi	June 2002
Diploma	Computer Science & Engineering	H.K.E Society's Women's Polytechnic College, Kalaburgi	Director of Technical Education, Bengaluru	Jan 1988

WorkExperience			
Name of the Institution	Position	From	To
P.D.A College of Engg. Kalaburgi	Professor	1-9-2017	Till Date
P.D.A College of Engg. Kalaburgi	Associate Professor	1-3-2017	31-8-2017
P.D.A College of Engg. Kalaburgi	Assistant Professor	14-1-2004	28-2-2017
P.D.A College of Engg. Kalaburgi	Lecturer	26-6-2002	13-1-2004

P.D.A College of Engg. Kalaburgi	Instructor		20-3-1988	25-6-2002	
Total Experience	Teaching: 23 years Instructor: 10 years	**Teaching** 23	**Research** 15	**Administration** 10

Research Publications					
Total Number of Publications	**International Journal**	**National Journal**	**International Conference**	**National Conference**	**Total**
	46	--	11	1	58
Recent Publications(Journals/Conferences)					

<u>Academic Year: July-2022—June 2023</u>

S.No.	Paper Title/Authors	Journal Name	Type of Journal and other details	Quartile
1	An Image Inpainting Method Based on Whale-Integrated Monarch Butterfly Optimization Based DCNN	International Journal of Swarm Intelligence Research	Vol. No. 13, Issue No 3, Page No. 1-23, **July 2022**	Q2
2	DKH: A Hybridized Approach for Image Inpainting using Bayes Probabilistic – Based Image Fusion	International Journal of Intelligent Robotics and Applications	Vol. No. 7, Issue No 1, Page No. 1-15, **Nov 2022**	Q2
3	Political Improved Invasive Weed Optimization- Driven Hybrid Exemplar Technique for Video Inpainting Process	International Journal of Pattern recognition and Artificial Intelligence	Vol. No. 36 Issue No 12, Page No. 2255018-1 to2255018-27, **December 2022**	Q3
4	Design and Development of Hybrid Optimization-Enabled Deep Learning Model for Myocardial Infarction -Shamal Bulbule, Shridevi soma	International Journal of Sociotechnology and Knowledge Development (IJSKD)-IGI Global	IJSKD-Scopus Volume: 14 ,Issue: 1, ISSN: 1941-6253 **Copyright: 2022**	Q3

5	Diabetic macular oedema classification using gradient adaptive thresholding integrated active contour and ant lion spider monkey optimization based generative adversarial network -Shweta Reddy, Shridevi soma	International journal of Bio-Inspired computation (IJBIC)	Vol. 20 No.4 **December 2022** Pp 241-255 DOI: 10.1504	Q2
6	An optimal solution to reduce virtual machine migration SLA using host power -S. Rukmini, Shridevi soma	Sciencedirect-measurement: sensors. ELSEVIER	Volume 25 **February 2023,** 100628	Q3

Academic Year: July-2023—June 2024

S.No.	Paper Title	Journal Name	Type of Journal and other details	Quartile
1	Adam-Dingo optimized deep maxout network-based video surveillance system for stealing crime detection -Nischita Waddenkery, Shridevi Soma	Sciencedirect-measurement: sensors. ELSEVIER	Volume 29, **October 2023,** 100885 DOI: 10.1016/	Q3
2	A Novel Approach for energy-efficient container migration by using gradient descent namib beetle optimization -S. Rukmini, Shridevi soma	UniversalWiser Publicaion	Volume 5 Issue 1 **October-2023** DOI:10.37256	Q3
3	Power aware energy efficient based virtual machine migration using enhanced Pelican Remora optimization in cloud center - S. Rukmini, Shridevi soma	International Journal of Intelligent Engineering and Systems (IJIES)	Vol. 16 No.6 2023 **October 2023** DOI: 10.22266	Q2
4	Enhanced AlexNet for Detecting the Myocardial Infarction –An Efficient Approach - Shamal Bulbule, Shridevi soma	International Journal of Image and Graphics	IJIG-Scopus ISSN: 1793-6756 Publisher: world Scientific H-Index:24 **March 2024**	Q3

5	Loitering Based Human Crime Detection in Video Surveillance using Beluga whale Adam Dingo Optimizer and Deep Convolutional neural network -Nischita Waddenkery, Shridevi Soma	International Arab Journal of Information Technology (IAJIT)	ISSN: 16833198, 23094524 Vol. 21, No. 3 **May 2024**	Q3

Academic Year: July-2024—Till date

S.No.	Paper Title	Journal Name	Type of Journal and other details	Quartile
1	Graph attention-driven document image classification through DualTune learning -Shilpa, Shridevi soma	Indonesian Journal of Electrical Engineering and Computer Science (IJEECS)	Vol.33 No.1 **January 2024,** pp. 278~289 ISSN: 2502-4752 DOI:10.11591	Q3
2	An efficient convolutional neural network for detecting crime of stealing in videos -Nischita Waddenkery, Shridevi Soma	Sciencedirect-Entertainment Computing ELSEVIER	Vol. 51, 100723 **September 2024**	Q2
3	Honey Badger Aquila optimization-based deep learning with multi-kernel shape index histograms for diabetic macular edema classification -Shweta Reddy, Shridevi soma	Biomedical Signal processing and control	Volume 100, part C **November-2024,** 106894	Q1
4	Anchor selection based deep learning two stage fabric defect localization -Hattarki Pooja, Shridevi Soma	IAES International Journal of Artificial Intelligence(IJ-AI)	Vol.13 No. 4 **December 2024,** pp. 4711~4721 ISSN: 2252-8938 DOI: 10.11591	Q2
5	Enhancing text classification through novel deep learning sequential attention fusion architecture -Shilpa, Shridevi soma	International Journal of artificial Intelligence (IJ-AI)	Vol.13,no.4 **December-2024,** pp. 4642~4653 ISSN:2252-8938 DOI:10.11591	Q2

Grant Received :

Memberships in Professional Bodies	
S.No.	**Name of the Professional Body**
1.	Indian Society for Technical Education (ISTE)
2.	Institute Electronics and Telecommunication Engineering (IETE)

Programs Organized	
1.	Three days training program on "CGI Programming and WEB Design", April 5-7th 2009
2.	One Week FDP on "Cloud Computing", under TEQIP, from 20th – 24th , March-2013, at CSE Dept. PDACEK
3.	One Week FDP on "Automation using IoT", under TEQIP+IETE, from 23rd – 28th , Jan-2017, at CSE Dept. PDACEK
4.	Machine Learning and IOT Applications using MATLAB, Student training program (STP), 5TH to 8TH April 2023, IEI

Training Programmes Attended

Sl.No	Title	Date	Place
1	Cyber Security and Forensic Investigation Tools & Techniques	22 to 26 July 2019	ESCI
2	Symposium on Collaborative Research	19 to 20 August 2019	Mysore
3	Role Of Iot In Research & Industrial Applications	23rd - 24th Aug 2019	PDACEK
4	Professional Development Training	26th - 30th Aug 2019	IIM Raipur
5	Cyber Forensics and Cyber Security	15 to 19 March 2020	G. Narayanamma Institute of Technology and Science, Hyderabad

6	Cyber Security	28 May to 1st June 2020	National Institute Of Technical Teachers Training &Research , Chandigarh
7	Cyber Forensics And Cyber Security	15 to 19 June 2020	P.D.A.C.E Kalburagi
8	IPR: Opportunities and challenges	7th July 2020	BIET, Jhansi
9	Machine Learning On Distributed Platform	27th and 31 July 2020	Dept. Of Cse , Rvce
10	Fundamentals of open stack and containers in cloud computing technology	23 to 25th March 2021	PDACEK
11	(ATAL) Academy Online Elementary FDP on "An insight to Biomedical Instrumentation, Biomedical Signal and Image Processing with hands on experiance and LabVIEW Programming"	2021-8-2 to 2021-8-6	Poojya Doddappa Appa College of Engineering, Kalaburagi
12	Machine Learning and Deep Learning for Signal and Image Analysis	3rd to 7th Jan 2022	Dept. of ECE , IETE, Hyderabad
13	Advance Natural Language Processing using AI	14th to 18th March 2022	Vimal Jyothi Engineering College (Online)
14	Patent Filing Trademark & Industrial design, geographical indication	26th April 2022	Sahyadri College of Engineering, Mangalure
15	IoT and its application	5th to 9th Dec 2022	GNDEC, Bidar
16	Recent trends in research and innovation for forefront technologies	4th to 8th Jan 2023	PDACEK College
17	Machine Learning and IOT Application using MATlab	5th to 8th April 2023	CoreEl Technologies

	Special Lectures Presented
1.	Resource Person for the Topic : IoT Applications in One Week FDP on "Role Of Iot In Research & Industrial Applications" Conducted from 23rd - 27th Aug 2019
2.	Resource Person for the Topic : IoT Applications and Big Data in One Week ATAL FDP on "Iot and Big Data In Research" Conducted from 20 - 25 Aug 2020
3.	Resource Person for the Topic : Introduction to C Programming for Seminar at Smt. V G Women's College, Kalaburagi 10 July 2021
4.	Panel Member : Kalaburagi THINKATHON STARTUP EXPO – 2021, Conducted PDACEK & Manomay Studios at PDACEK from 17-9-2021 to 18-9-2021
5.	Panel Member for the Topic : Artificial Intelligence, TWO Days National Seminar on Social Media and Society(AISMS-2024) at Smt. V G Women's College, Kalaburagi On 5th & 6th November 2024
6.	Resource Person for the Topic : Innovation & Design Thinking on the eve of National Science Day – 2025 in a Seminar at Smt. V G Women's College, Kalaburagi on 28-2-2025

	Role & Responsibilities
1.	Additional Controller of Examination from July 2024 till date
2.	Vice-Principal (Administration) January 2024 – July 2024
3.	Head of the Department (CSE) July 2023 – Jan 2024
4.	Governing Body Member of P.D.A. College of Engineering, Kalaburagi (2018-2021)
5.	Dean Research & Development, PDACEK from July 2021 to October 2023
6.	PG Coordinator for M.Tech. CSE Course, CSE Department (12.06.2015 to 5-8-2023)
7.	Member of BOS & BOE, Computer Science and Engineering (2014-till date)
8.	BOE Chairman for the academic year 2019-2020, 2023-2024.
9.	Admission Committee member from 2017-18 to 2021-2022 and Convener from 2022-2023 to 2023-2024.
10.	Monitoring Committee member for New Age Incubation Network (A State Government Scheme for Student innovative Project Ideas).
11.	Member of BOS, Information Science and Engineering, PDACEK (2011-2014).
12.	NBA Coordinator, CSE Department from 2006 to 2017.
13.	IT Co-ordinator for SMART-CAMPUS, PDACEK.