




JSS Mahavidyapeetha
JSS Academy of Technical Education, Bengaluru
Department of Information Science & Engineering



FACULTY PROFILE

1. Personal Details

NAME	Dr. Sowmya K.N	
DEPARTMENT	Information Science and Engineering	
DESIGNATION	Assistant Professor	
PHONE	9945505336	
EMAIL ID	sowmyakn@jssateb.ac.in	
TEACHING EXPERIENCE	15	
INDUSTRY EXPERIENCE	-	
RESEARCH EXPERIENCE	8	

2. Qualification

COURSES	SPECIALIZATION	INSTITUTION	UNIVERSITY
Ph.D.	Faculty of Computer and Information Sciences	Sri Jayachamarajendra College of Engineering, Mysuru	Visvesvaraya Technological University
M.Tech	Computer Network Engineering	BMS College of Engineering, Bangalore	Visvesvaraya Technological University
BE	Information Science and Engineering	Bangalore College of Engineering and Technology	Visvesvaraya Technological University
Diploma	Computer Science and Engineering	Vidya Vikas Polytechnic	Directorate of Technical Education, Govt of Karnataka

3. Membership of Professional Bodies:

1. Life Membership in Indian Society for Technical Education (MISTE)
2. Life Membership in Computer Society of India
3. Life Membership in International Association of Engineers

4. Publications (Journals / Conferences)

(Web of Science and Scopus only)

Sl. No	Name/s of Author/s	Title of Paper & doi	Journal & Publisher	Publication Details
1	Sowmya K.N H.R.Chennamma LalithaRangarajan	Video authentication using spatio temporal relationship for tampering detection 10.1016/j.jisa.2018.07.002	Journal of Information Security and Applications Elsevier	Vol. No. 41 Issue No. August 2018 pp: 159-169 Year: 2018
2	Sowmya K.N H.R.Chennamma	Video Authentication Using Watermark and Digital Signature-A Study 10.1007/978-981-10-2471-9_6	Book Series: Advances in Intelligent Systems and Computing Publisher: SPRINGER-VERLAG SINGAPORE PTE LTD, SINGAPORE	Volume: 507 Pages: 53-64 Year: 2017

3	Sowmya K.N H.R.Chennamma	Object based Forgery detection and Localization in Videos	2019 International Conference on Advanced Technologies in Intelligent Control, Environment, Computing & Communication Engineering (ICATIECE), IEEE	Year 2020
4	Sowmya K.N Basavaraju H.T H.R Chennamma V.N Manjunath Aradhya	Similarity Analysis of residual frames for inter frame forgery detection in video	Intelligent Computing and Communication, Series Title: Advances in Intelligent Systems and Computing Proceedings of 3rd ICICC 2019, Bangalore, Editors: Bhateja, V., Satapathy, S.C., Zhang, Y.-D., Aradhya, V.N.M. (Eds.) DOI:10.1007/978-981-15-1084-7	Year:2019

Journals & Conferences (Others):

Sl. No	Name/s of Author/s	Title of Paper & doi	Journal & Publisher	Publication Details
1	Sowmya K.N Dr H.R Chennamma	<i>A Survey on Video Forgery Detection</i> <i>arXiv preprint arXiv:1503.00843</i> (2015).	International Journal of Computer Engineering and Applications Publisher : IJCEA	Vol. No. IX Issue No. II pp:17-27 Year:2015
2	Sowmya K.N Sachin K Rai	<i>A Review on Use of Machine Learning Techniques in Diagnostic Health-Care</i>	Artificial Intelligent Systems and Machine Learning Publisher : CIIT	Volume:10 Issue:4 Pages:102-107 IF : 0.763
3	Sowmya K.N Dr H.R Chennamma	<i>Challenges in Surveillance Video Forgery Detection</i>	International Journal of Scientific & Engineering Research ISSN: 2229-5518 (Proceedings of UGC sponsored 2 days conference on Advances in Computer Science and Engineering (ACSE - 2017) Publisher : IJSER	Vol No. : VIII Issue:5 Month & Year: May 2017 Page No: 138 - 140
4	Sowmya K.N, D Sirisha, Divya C.H, Shanmukha Shesha Sai	Long wave infrared - Visual Image matching with Modified EOH using SCHARR filters	Proceedings of National Conference on Brain Storming in Computer Science (BSTORCS 2020) 23-25th January 2020 at Jawaharlal Nehru Institute of Advanced Studies (JNIAS), Hyderabad Vol:1, Issue:1, Pages 167-171, 2020, ISBN :978-93-88808-80-4, 2020.	ISBN :978-93-88808-80-4, 2020
5	Sowmya K.N, D Sirisha, Divya C.H, Shanmukha Shesha Sai	Long Wave Infrared and Visual Image Registration with Modified EOH using Gradient Magnitude and Orientation approach	Proceedings of National Conference on Brain Storming in Computer Science (BSTORCS 2020) 23-25th January 2020 at Jawaharlal Nehru Institute of Advanced Studies (JNIAS), Hyderabad Volume 1, Issue 1, Pages 160-166 Publisher: Paramount Publishing House	ISBN :978-93-88808-80-4, 2020

6. Others: Workshops / Conference (Organized/Attended)

6.a. Workshops / Conference organized

1	Organised 5th National Conference on "Advancements in Information Technology" (NCAIT-2019) on 10 th and 11 th April 2019 at JSSATE, Bangalore
2	Organised "Techkriti" a networking workshop in association with IIT Kanpur along with Azure Skynet as knowledge partner at Zonal level where students from various colleges of Bangalore and our students from 2nd and 3rd year participated. 15% of the revenue generated through workshop was given to college [Report for the same as been submitted to the principal office]. Received best coordinator award from IIT Kanpur.

6.b. Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body)

1.	Two Week FDP on "Signal and Image Processing issues, challenges and Techniques" - 1st to 12th January 2018 at Deenabandhu Chotu Ram University of Science and Technology, Haryana, India
2.	1 Week workshop on "Data Analytics using R" from 16-21st April 2018 at Dr A.I.T Bangalore
3.	Design for everything – Opportunities in IOT - Faculty Development Programme Organised & Sponsored by TEQIP , Dept of CSE, MSRIT from 11 to 16th January 2016 at MSRIT, Bengaluru.
4.	STTP on Digital Image Processing and its Applications - STP Organized by NIT, Warangal from 20th to 24th July 2015
5.	1 week Short term course on "Computer Vision and Pattern Recognition" National level STP Organized by NIT, Durgapur, West Bengal from 16th to 20th July 2014
6.	web mining FDP Organized by SJCE, Mysore from 12th to 16th March 2012.

6.c. workshop/ Seminar /Conference Attended (those NOT sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body)

1.	Two day National Symposium on "Data Science and statistics-Trends and Challenges" on 4th and 5th July 2018, JSSATE, Bengaluru
2.	Digitalisation and its impact – an Faculty Development Programme Organised & Sponsored by M/s Cognizant Technology Solutions, Bangalore on 20th May 2017
3.	Overview on IT infrastructure Services - Faculty Development Programme Organised & Sponsored by M/s Cognizant Technology Solutions, Bangalore on 30th May 2017
4.	Computational Data Science - a Faculty Development Programme, Organised & Sponsored by Dept of ISE, JSSATE Bangalore from 16th-21st January 2017
5.	Technological Advances In M-Health And Diagnosis Of Diseases Using Retinal Imaging - National workshop Organized by JSS Research Foundation, Mysuru on 25th January 2016
6.	Indo US conference on "Engineering Application on Healthcare Delivery" - International Conference organised by SJCE & JSS Research foundation at JSS Hospital Mysuru on 14th and 15th September 2015
7.	Workshop on "Introduction to therapeutic Counselling for engineering teachers" - Faculty Development Programme Organized by NMAM Institute of Technology, NITTE on 13th to 16th July 2015
8.	"Modern machine learning application - National Workshop Organized by SJCE, Mysuru on 24/01/2015
9.	Plagiarism awareness for PhD thesis writing : Research Scholar – Workshop Organized by VTU Regional Office, Mysuru at Vidya Vikas Engg College, Mysuru
10.	"GBFS Train the trainer programme" workshop Organized by Ms Infosys at Infosy's campus, mysuru from 15/07/2014 to 25/07/2014
11.	Research methodologies & Latex Workshop organized by VTU, elearning center, Mysuru at ghousia college of engineering, Ramanagara(27th to 29th July 2013).
12.	Application of wavelets for signal and image processing in research - FDP Organized by JSSATE, B'lore(8th & 9th April 2013).
13.	Research Avenues in Digital Forensics National workshop Organized by SJCE, Mysuru (16th March 2013).
14.	'MATLAB and its application to image processing and communication' - FDP Organized by RNSIT, B'lore from 28th Jan to 30th Jan 2013.
15.	System Software and Operating System Lab - FDP Organized by RNSIT, B'lore during July 30 – 31st, 2012.
16.	FDP on Eclipse IDE, MSSQL server - FDP Organized by CTS, Bangalore from 29th to 30th March 2012.
17.	Emerging WEB technologies(Ruby,Rails,JSP2.0 and EJB 3.0) Workshop Organized by RNSIT, B'lore during Feb 01-02, 2012.
18.	Information storage and Management - FDP Organized by MSRIT in association with EMC2 during 16th – 20th of Jan 2012.
19.	Cyber Forensics - FDP Organized by JSS – IGNOU Advanced Education & Research center of Excellence during 25th-27th August 2011 at JSSATE