



**Mr.S. BALASUBRAMANIAN**

**ASSISTANT PROFESSOR OF COMPUTER SCIENCE (STAGE II)**

### Contact

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Website :

### Academic Qualifications

Degree	Institution	Year	Branch	Class
M. Phil	Periyar University	2011	Computer Science	First
M.C.A	Alagappa University	1998	Computer Applications	First
B.Sc	Madurai Kamaraj University	1995	Physics	First

### Teaching Experience

Total Teaching Experience : 10 Years

Position	Institution	Duration
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**PDF/ Visiting Professor : Abroad**

<b>Assistant Professor in Computer Science (Stage II)</b>	<b>Alagappa University, Karaikudi</b>	<b>2018 to till date</b>
<b>Assistant Professor in Computer Science (Stage I)</b>	<b>Alagappa University, Karaikudi</b>	<b>2013 to 2018</b>
<b>Lecturer</b>	<b>Mohamed Sathak College of Arts and Science, Chennai</b>	<b>2005-2013</b>
<b>Senior Faculty</b>	<b>SITECH, Chennai</b>	<b>1999-2007</b>

<b>Position</b>	<b>Institution</b>	<b>Duration</b>

**Research Experience**

Total Research Experience : Years

<b>Position</b>	<b>Institution / University</b>	<b>Duration</b>

**Academic and Additional Responsibilities**

<b>S.No</b>	<b>Position</b>	<b>University Bodies</b>	<b>Period</b>	
			<b>From</b>	<b>To</b>

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### Areas of Research

- **Computational Offloading in Cloud of Things**
- **Cyber Security**
- **IoT based Disease Prediction**
- **Computational Models for Disease Prediction in Healthcare 4.0**

### Patents Filed

- AN EFFICIENT COMPUTING ESTIMATION-DRIVEN HEALTH MONITORING SYSTEM HARNESSING THE INTERNET OF THINGS (IOT) TO MANAGE AND ADDRESS PANDEMIC DISEASES  
(Application No. 202341054983, Publication date: 16/08/2023)
- ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED DETECTION AND PREVENTION OF MALARIAL PARASITES IN BLOOD USING CNN-DEEP LEARNING ALGORITHMS FOR HEALTH CARE MANAGEMENT SYSTEMS  
(Application No.202311055314 A, Publication date: 15/09/2023)
- SENSOR BASED INTELLIGENT WEARABLE DEVICE TO MONITOR BLOOD GLUCOSE LEVELS OF A DIABETES PATIENT AND GENERATE INSULTIN USING ARTIFICIAL PANCREAS  
(Application No.202141056911 A, Publication date: 10/12/2021)
- AN AUTOMATED IOT BASED SOLAR PANELIZED WASHING MACHINE  
(Application No.202041052594 A, Publication date: 11/12/2020)

### Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	PDF		
	Ph.D		
	M.Phil		
	PG	144	8

Project	UG / Others		
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## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
2	3			Computer Networks ISBN:978-93-92992-83-4  Problem Solving and Python Programming, ISBN:978-93-94002-09-8  Cloud Computing ISBN:978-93-94002-22-7  Deep Learning – A Practitioner’s Approach ISBN:978-81-19313-54-9

**Cumulative Impact Factor (as per JCR) :**

**h-index :** 4

**i10 index :**

**Total Citations :** 23

## Publications

**Thesis Evaluated :**

**Viva voce Examiner :**

## Funded Research Projects

**Ongoing Projects:**

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		

**Completed Projects:**

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	Alagappa University Research Fund	2017	2018	Smart Intelligent Devices for Detecting Heart Attacks and Monitoring Heart Rates	0.35

**Other Fund Received as Research Mentor:**

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		

**Consultancy Projects:**

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		

**Others:**

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		

### Distinctive Achievements / Awards

- A.P.J Abdul Kalam International Award - 2023
- Jawaharlal Nehru International Award - 2023

### Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized:

Position	Programme	Duration	Institution
Organizing Secretary	Webinar Lecture on Computational Intelligence	06.06.2020	DDE, Alagappa University

### Events Participated

Number of Conferences / Seminars / Workshops: 25

S.No	Name of the Faculty	Name of the Conference/ Seminar/ Workshop etc.	Organizer, with Place	Date(s)	Topic of papers presented / Attended	National / International
1	S. Balasubramanian	National Level Online FDP phase II on Machine Learning & Artificial Intelligence	PACE Institute of Technology and Science, Ongole	24.05.2021 to 02.06.2021	Attended	National
2	S. Balasubramanian	Online Continuing Education Program on Python for Scientific Computing	NIT Warangal	07.06.2021 to 11.06.2021	Attended	National
3	S. Balasubramanian	Three days Online Professional	Patrician College of	16.06.2021 to	Attended	National

		Development Programme on Emerging Trends in Computer Science	Arts&Science, Chennai	18.06.2022		
4	S. Balasubramanian	International Online FDP on Recent Advances in Computer Science and Allied Domains	Sharda University	05.07.2021 to 10.07.2021	Attended	International
5	S. Balasubramanian	One week International Webinar Series on Indian Philosophy on the occasion of Indian Philosopher's Day 2021	Social work wing – DDE, Alagappa University	19.07.2021 to 23.07.2021	Attended	International
6	S. Balasubramanian	Online Short-term Course on Cloud and Fog Computing	National Institute of Technology, Warangal	02.08.2021 to 06.08.2021	Attended	National
7	S. Balasubramanian	Five-day International Lecture Series on Cyber Security	Srimad Andavan Arts and Science College, Trichy	13.09.2021 to 17.09.2021	Attended	International
8	S. Balasubramanian	International Webinar on Recent Trends in Data Science	Department of Data Science, St. Joseph's College, Trichy	21.09.2021 to 23.09.2021	Attended	International
9	S. Balasubramanian	Three Day International Conference on Women's Health Issues	Dept. Of Women's Studies and Dr.B.R. Ambedkar University of Social Science,MP	01.10.2021 to 06.10.2021	Attended	International
10	S. Balasubramanian	National webinar on IoT Based Home Automation System using Proteus Software	VHNSN College, Virudhunagar	11.10.2021	Attended	National
11	S. Balasubramanian	2021 2 <sup>nd</sup> International Symposium on Automation, Information and Computing (ISAIC 2021)	Beijing Jiaotong University, China	03.12.2021 to 06.12.2021	Presented	International
12	S. Balasubramanian	International Webinar on Big data	The New College, Chennai	23.12.2021	Attended	International
13	S. Balasubramanian	International Conference on Innovative Technology for Sustainable	Alagappa University College of Physical	25.02.2022 & 26.02.2022	Attended	International

		Development in Sports, Fitness and Healthy Life	Education			
14	S. Balasubramanian	Three-day Training Programme on Enhancing Life skills for Youth Belonging to SC/ST: Special Reference to Affiliated College Students of Alagappa University	Social work wing – DDE, Alagappa University	16.03.2022 to 18.03.2022	Attended	National
15	S. Balasubramanian	FDP on Advancements in Security using Deep Learning	GMR Institute of Technology and Siddhartha Engg. College	21.03.2022 to 25.03.2022	Attended	National
16	S. Balasubramanian	One day National Seminar on Technology Trends in Digital world	Department of Computer Applications Alagappa University	11.04.2022	Attended	National
17	S. Balasubramanian	Faculty Development Program on Amazon Web Services	GMRIT, Rajam	22.08.2023 to 27.08.2022	Attended	National
18	S. Balasubramanian	Faculty Development Program on Data Science and Machine Learning	E&ICT Academy, NIT Warangal and VIT, Vellore	26.08.2022 to 04.09.2022	Attended	National
19	S. Balasubramanian	Faculty Development Program on ICT Tools: A New Vista in Teaching	Sona College of arts & Science, Salem	07.10.2022	Attended	National
20	S. Balasubramanian	Workshop on Arduino-Internet of Things	VIT, Vellore	31.10.2022	Attended	National
21	S. Balasubramanian	FDP on Mathematics for Data Science and Machine Learning	Gopalan College of Engineering and Management, Bangalore	02.01.2023 to 07.01.2023	Attended	National
22	S. Balasubramanian	Four Day Workshop on Digital Image Processing using Scilab	A2Z EdulearningHub	10 <sup>th</sup> to 13 <sup>th</sup> February 2023	Attended	National
23	S. Balasubramanian	Three-Day International Workshop on Statistical Data Analysis & Interpretation using R-programming	A2Z EdulearningHub	06 <sup>th</sup> to 08 <sup>th</sup> March 2023	Attended	International
24	S. Balasubramanian	Five Days FDP on Developing Potential- Emerging Technologies of Computer Science	Sri Balaji College of Engineering & Technology,	25.04.2023 to 29.04.2023	Attended	National



25	S. Balasubramanian	Five Days International Workshop on Application of Machine Learning and Artificial Intelligence in Research & Innovations	Regional College for Education Research & Technology, Jaipur	02.05.2023 to 06.05.2023	Attended	International
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## Overseas Exposure / Visits

- Singapore

## Membership

### Professional Bodies

1. Life Member – Computer Society of India
2. Associate Member - IAENG

### Advisory Board

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2021- 2023	MCA(Regular)	Member
2021- 2023	B. Sc Computer Science(DDE)	Member
2021- 2023	B.Sc Information Technology(DDE)	Member
2021- 2023	BCA(DDE)	Member
2021- 2023	M.Sc Computer Science(DDE)	Member
2021- 2023	M.Sc Information Technology(DDE)	Member
2021- 2023	P.G.D.C.A	Member
2021- 2023	Certificate in Web Designing	Member
2021- 2023	Certificate in Office Automation	Member

2021- 2023	Diploma in Cyber Security	Member
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### Academic Bodies in Other Institutes/ Universities

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role

### Ph.D. Thesis Guided

- No. of PhD Thesis evaluated :
- No. of PhD Public Viva Voce Examination conducted :

S. No	Name of the Scholar	Title of the Thesis	Year of Completion

### List of Research Articles / Recent Publications

S. No	Authors/Title of the paper/Journal	Impact Factor
1.	Offloading Decision Making for Workflow Applications Using an Enhanced Genetic Algorithm in the Edge Environment Journal of Physics-IOP publishing, Volume:2224 Issue:1	0.547
2.	IoT Based Disease Prediction Using MapReduce and LSQN Techniques, Intelligent Automation & Soft computing Volume:34 Issue:2 Pages:1215-1230	3.401
3.	Game theory based offload and migration-enabled smart gateway for cloud of things in fog computing	

4.	Enhancing the computational intelligence of smart fog gateway with boundary-constrained dynamic time warping based imputation and data reduction	
5.	Study of Cybercrime in Banking and Financial Sectors	5.01

### Resource persons in various capacities

National Conferences :

International Conferences :

Invited Lectures :



Date : 28.02.2024

Place : Karaikudi

(Signature)

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