

## Profile

1. Name : Dr. J.Somasekar  
2. E-mail id : [jsomasekar@gmail.com](mailto:jsomasekar@gmail.com)  
3. Highest Qualifications : Ph.D (Computer Science and Engineering, JNTUA, AP)  
4.Experience : 12 Years (Teaching and Research)

### Qualifications

Qualification	Specilization	Universty / Board
Ph.D	Computer Science and Engineering (CSE) – Digital Image Processing	JNTUA, AP
M.Tech.,	Computer Science	NITK, Surathkal
Others	GATE qualified	All INDIA Rank: 43 Percentile : 98.4

Areas of Research Interest- Digital Image Processing, Machine Learning for medical domain.

### 1. Profession Details

- Worked as Asst.prof. and HOD (2010-2013), Assoc. Prof.(2013-2016), Professor and HOD (2017-2019) at GCEM. Currently working as a professor of CSE, GCEM. (total of 9 years at GCEM since 2010 )
- Worked as Asst.Prof., MRCET ,Hyderabad b/n 2007 to 2008.
- Worked as lecturer from 2005 to 2007 in SDES,Hyderabad. **Achievements and Awards**
- Reviewed 7 Research papers of the Reputed International journals like Springer, Talors and Francis , Inderscience journals etc.,
- Guided More than10 projects at UG level.

### 2. Conferences conducted

National -01

### 3. Extra curricular activities

- Conducted more than 4 workshops and 1 FDP.
- SPOC of NTPPEL local chapter, GCEM.

- Invitation as a speaker, resource person for conferences, workshops and advisor for conferences: 04
- Attended :

	FDP	WORKSHOP	CONFERENCE	SEMINAR	TOTAL
Attended(No.)	4	6	3	1	14

- Publication citation details:

National Journals	International journals/conferences	No. of citations	h-index	i10 index
2	8	61	4	3
Google scholar : <a href="https://scholar.google.com/citations?user=yP_6CqoAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=yP_6CqoAAAAJ&amp;hl=en</a>				

#### 4. Books published

Title	Published Period	Name of the publications
Authors: <b>C.Lai (Taiwan) and J.Somasekar</b> Chapter 6: Protozoan parasite detection and classification techniques of microscope images for computer aided diagnosis. <b>Book Title:</b> "Parasites: Ecology, Diseases and Management, Nova Science Publishers, USA, 2012, ISBN: 978-1-62257-692-0.		

#### 5. Paper Publications

No.of Patents Published	:01 (June,2019)
International journals	:06
National journals	:02
International Conferences	:02
National Conference	:01

#### Journal publications:

- [1] J.Somasekar, B.Eswara Reddy, Segmentation of erythrocytes infected with malaria parasites for the diagnosis using microscopy imaging, Computers and Electrical Engineering, Vol.45, 336-351, 2015. (**ELSEVIER Journal**) (**SCI and SCOPUS Indexed**) (**IF: 1.084**)
- [2] J.Somasekar, B.Eswara Reddy, A Novel LCM<sup>2</sup>ICM: Low Contrast Malaria Microscopic Image Classification Measure, Journal of Advanced Microscopy Research, Vol. 11, 95-98, 2016. (**SCOPUS, ELSEVIER BD Indexed**)
- [3] J.Somasekars, B.Eswara Reddy, A Novel Two-Stage Thresholding Method for Segmentation of Malaria Parasites in Microscopic Blood Images, Journal of Biomedical Engineering and Medical Imaging, Vol.4(2),2017.

- [4] J.Somasekars, Ching-Hao Lai et.al. An Image Processing Approach for Accurate Determination of Parasitemia in Peripheral Blood Smear Images, International journal of computer applications, Special Issue on “Novel Aspects of Digital Imaging Applications, 23-28,2011.
- [5] J.Somasekars, B.Eswara Reddy,Scheduling Algorithm Applications to Solve Simple Problems in Diagnostic Related Health Care Centers, International Journal of advanced research in computer science,3, 125-127,2012.
- [6] J.Somasekar, Computer Vision for Malaria Parasite Classification in Erythrocytes, International Journal on Computer Science and Engineering , 3, 2251-2256,2011.
- [7] J.Somasekar, B.Eswara Reddy, Ching- Hao Lai ,Automatic Contrast Enhancement of Microscopic Color Imaging with an Emphasis on Malaria, Computers and Electrical Engineering (**Elsevier**),(**SCI Indexed**) **IF:1.57 (Under 2<sup>nd</sup> review)**
- [8] J.Somasekar, et.al., A dataset for contrast enhancement of malaria microscopic images, communicated to data in brief journal (Elsevier) (Scopus indexed).
- [9] J.Somasekar, Border Detection on Malaria Microscopic Blood Images : A Computer Vision Approach communicated to **scopus** indexed journal.
- [10] J.Somasekar et.al., Best keyword set recommendations for building service based systems communicated to the journal.

### **International Conferences**

1. J.Somasekar, et.al., Contrast-enhanced microscopic imaging of malaria parasites, IEEE International Conference on Computational Intelligence and Computing Research (ICCIC), 2014.
2. J.Somasekar et.al., An Efficient Algorithm for Automatic Malaria Detection in Microscopic Blood Images, 4th International conference in Global Trends in Computing and Communication Systems, 2011, Springer-Verlag Berlin Heidelberg .(SPRINGER LNCS) **ISSN/ISBN No. : 978-3-642-29216-3.**

### **National Conferences**

1. J.Somasekar, et.al., Contrast enhancement for remote sensing images, NCIESPS, August, 2018.

All the above mentioned details are truthful and honest to my knowledge.

**J.Somasekar**