

## Dr. Premasudha B G

Affiliation (Professor, Dept of Master of Computer Applications., SIT)

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Faculty ID: SITF0184

### Education

	Degree	Year	Institute	Specialization
1	B.E	1990	Siddaganga Institute of Technology , Tumkur	Electronics
2	MCA	1998	Siddaganga Institute of Technology , Tumkur	Computer Science
3	P.hd	2010	VTU	Humanity Science(Computer science)
4	M.Tech	2014	JNTU	Computer Science

### Professional Experience

	Date (from-to)	Designation	Organization
1	21-07-2010 – till date	Professor and Head	Siddaganga Institute of Technology , Tumkur
2	12-12-2007 – 20-07-2010	Assistant Professor	Siddaganga Institute of Technology , Tumkur
3	11-11-2006 – 12-12-2007	Asst. Prof. & Head	Siddaganga Institute of Technology , Tumkur
4	10-03-2005 – 10-11-2006	Assistant Professor	Siddaganga Institute of Technology , Tumkur
5	10-06-2004 – 09-03-2005	Senior Lecture	Siddaganga Institute of Technology , Tumkur
6	10-10-1998 – 09-06-2004	Lecturer	Siddaganga Institute of Technology , Tumkur

### Positions held

*(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)*

1. Head, Department of MCA, Tumkur (4 years of experience).The Department of MCA at Siddaganga Institute of Technology (SIT), Tumkur, received accreditation in April 2024 for a period of two years under the chairpersonship of Dr. Premasudha.
2. NAAC Coordinator, Department of MCA, Siddaganga Institute of Technology (SIT), Tumkur, Karnataka, from 2016.
3. NBA Chairperson and Coordinator, Department of MCA.
4. Chairperson, Anti-Sexual Harassment Committee, SIT, Tumkur.
5. Chairperson, Board of Examiners (BoE) and Board of Studies (BoS), Department of MCA, SIT, Tumkur
6. Member, Board of Studies (BoS), MCA, MS Ramaiah Institute of Technology, Bangalore.
7. Member, Board of Studies (BoS), MCA, Atria Institute of Technology, Bangalore.
8. Member, Board of Studies (BoS), Computer Science, GM University, Davanagere, Karnataka.
9. Member, Board of Studies (BoS), NMIT, Bangalore.
10. Member, Advisory Board Committee, Department of MCA, Acharya Institute of Technology, Bangalore.
11. Member, Board of Examiners (BoE), PES College of Engineering, Mandya.
12. Member, Board of Studies (BoS), Acharya Institute of Technology, Bangalore.

#### Affiliations of Professional organizations

1. Fellow of the Institution of Engineers (India) (F-1206776)
2. Member, Bangalore BFSI Consortium.
3. Member CSI

#### Awards and Honors

1. **Women achiever award** for the **year 2023** from Institute of Engineers (IEI) –Tumkur local centre, Tumkur.
2. **“Best PhD Thesis award”** Supervisor Award **for the year 2021** in other branches with significant IT/CA related contents is conferred on for the thesis titled “online fertilizer recommendation for different crops of Tumkur district through GPS-GIS based fertility maps” from Board for IT Education Standards (BITES).
3. **Received Travel Grant from AICTE, New Delhi** to present a paper at International Conference, MAP MIDDLE EAST-2007.
4. **Received 3<sup>rd</sup> best paper award** in International Conference and Indo-Canadian satellite Symposium on Pharmaceutical sciences, Technology, Practice and Natural health. Ooty, India during 24<sup>th</sup>-26<sup>th</sup> Feb 2007.
5. **“Certificate of Recognition”** from Shikshak Kalyan Foundation for the outstanding performance in the field of Women Empowerment, in the year 2021.
6. **Received “Distinguished Educator”** award from National Foundation for Entrepreneurship Development (NFED), during 2015.

#### Courses Taught

##### Undergraduate Courses

- C programming

- Object Oriented programming

#### Postgraduate Courses

OOP's with C++  
 Cloud Computing  
 Internet of Things  
 Artificial Intelligence  
 Machine Learning  
 Big data  
 Data structure  
 System Programming

#### Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
1	Akshay M.J	IoT Based Smart Farming	Ongoing
2	Thara D K	Computer aided diagnosis system for epileptic disease detection using deep learning approach	2023
3	Leena H U	Online Fertilizer Recommendation for Different Crops of Tumkur District through GPS-GIS based Fertility Maps	2022
4	Ravi Ram V	An active evaluation of Routing Protocols in VANET over a Secured Communication Framework	2019
5	Suma R	Design of a Secured Location Based Routing protocol for Mobile Ad-Hoc Networks	2018
6	Mamatha G	Optimal Spatial Distribution of Sensor Nodes in Wireless Sensor Network	2016

#### Research Areas

- **Cloud Computing:** Specializing in cloud-based systems, particularly in healthcare and agriculture applications.
- **Data Analytics:** Focusing on analyzing large datasets, including health records and soil fertility data, to derive meaningful insights.
- **Artificial Intelligence & Machine Learning:** Applying AI and ML techniques in areas like medical diagnosis and precision agriculture.
- **Geographical Information Systems (GIS):** Leveraging GIS for precision agriculture, particularly in soil testing and crop yield, and fertilizer recommendations.
- **Healthcare Systems:** Development of cloud-based electronic health records and diagnostic tools for specific diseases using AI and deep learning models.
- **Agricultural Informatics:** Developing apps and systems to provide farmers with soil health data, fertilizer recommendations, and yield optimization tools.

## Sponsored Projects

### Completed Projects:

1. Title: Krishi Ganaka –A Kiosk aided soil fertilizer recommendation system for different crops of Tumkur District, Karnataka”(Funding Agency: VGST – RFTT  
Amount: 5 Lakh  
Duration: one year  
Role: PI
2. Title: Online Fertilizer Recommendation Through STCR approach for Tumkur District of Karnataka  
Funding Agency: University of Agricultural Sciences, GKVK, Bangalore  
Amount: **5 Lakh**  
Duration: one year  
Role:Co-PI
3. Title: Mobile Value Added Services to Citizens”  
Funding Agency: Department of IT,BT and S & T, Govt. of Karnataka, New Age Incubation Network(NAIN)  
Amount: 3 Lakh  
Duration: one year  
Role: Mentor
4. Title: IFRT- Innovative fertilizer recommendation for Tumkur district using computerized kiosk system  
Funding Agency: ICT Skill Development Society, Department of IT,BT and S & T, Govt. of Karnataka  
Amount: 3 Lakh  
Duration: one year  
Role: Mentor
5. Title: Automatic medication dispenser  
Funding Agency: ICT Skill Development Society, Department of IT,BT and S & T, Govt. of Karnataka  
Amount: 3 Lakh  
Duration: one year  
Role: Mentor

## Publications

### Journals

2024

Premasudha B G , Vijayalakshmi S Katti and Srivyshnavi H M, "Pragmatic Study of Enterprise Data Breach and its Prevention Technique by DLPD", Grenze International Journal of Engineering and Technology, Vol.10, Issue 2, PP.1124 – 1130, 2024.  
Grenze ID: 01.GIJET.10.2.554\_3

2023

Patil N. Siddalingappa, Poornima Basavaraj, Preethi Basavaraj, Premasudha B. Gowramma, "Route optimization via improved ant colony algorithm with graph network", International Journal of Reconfigurable and Embedded Systems (IJRES) (**Scopus Indexed**)(**Q3 Rating**) vol. 12.issue 3 pp403-413  
[https:// 10.11591/ijres.](https://10.11591/ijres.),

Thara D.K.,Premasudha B.G., Krivic S., "Detection of epileptic seizure events using pre-trained convolutional neural network, VGGNet and ResNet", Expert Systems.**Wiley (Scopus Indexed)(Q2 Rating)**  
<https://doi.org/10.1111/exsy.13447>

2022

Thara D K , Dr. PremaSudha B G, Murthy T V , Dr. Syed Ahmad Chan Bukhari, "EEG forecasting with univariate and multivariate time series using Windowing and Baseline method", International Journal of E-Health and Medical Communications (IJEHMC) IGI Global, (**Scopus Indexed**)(**Q3 Rating**)  
<https://doi.org/10.4018/IJEHMC.315731>

2021

R. Suma, B.G. Premasudha and V. Ravi Ram, SIBLAR: a secured identity-based location aware routing protocol for MANETs, International Journal of Computer Aided Engineering and Technology, March 10, pp 320-344, 2021 (**Scopus Indexed**)(**Q4 Rating**)  
<https://doi.org/10.1504/IJCAET.2021.114489>

Premasudha B.G., Leena H.U., S.Panneerselvam and P.K.Basavaraja, "Pedometric mapping for soil fertility management – A case study", Journal of the Saudi Society of Agricultural Sciences, Elsevier(**Scopus Indexed**), (**Q1 Rating**)  
<https://doi.org/10.1016/j.jssas.2020.12.008>

Leena H.U., Premasudha B.G., P.K. Basavaraja, Data optimization and partitioning in private cloud using dynamic clusters for agricultural datasets, International Journal of Dynamics and Control, **Springer Nature** Sept 2020(**Scopus Indexed**), (**Q2 Rating**)  
<https://doi.org/10.1007/s40435-019-00596-9>

2020

R. Suma, B.G. Premasudha, V. Ravi Ram, A novel machine learning-based attacker detectionsystem to secure location aided routing in MANETs, Int. J. Networking and Virtual Organizations, **Inderscience Publishers (Scopus Indexed)(Q4 Rating)**, Vol. 22(1), 2020, pp. 17-45. <https://doi.org/10.1504/IJNVO.2020.10026733>

D. K. Thara, B.G.Premasudha, Ramesh Sunder Nayak,T. V. Murthy, G. Ananth Prabhu,Naeem Hanoon, Electroencephalogram for epileptic seizure detection using stacked bidirectional LSTM\_GAP neural network, **Springer(Scopus Indexed)(Q2 Rating)**, July 2020. <https://doi.org/10.1007/s12065-020-00459-9>

Leena H. U., Premasudha B. G., and Basavaraja P. K, Geospatial Analytical Framework for Soil Fertility Management, International Journal of Geoinformatics(**Scopus Indexed**)(**Q4 Rating**), Vol. 16, No. 2, June 2020, pp. 41-51.

Ravi Ram V, Premasudha B G, R Suma,SCM: Secured Communication Model for urban VANET applications, International Journal of Networking and Virtual Organizations (IJNVO), **Inderscience Publishers (Scopus Indexed)(Q4 Rating)**, Vol. 22(4), Jan 2020. <https://doi.org/10.1504/ijnvo.2020.107560>

2019

Leena H.U, Premasudha B.G, P. K. Basavaraja, H. Mohamed Saqeebulla, G.V. Gangamrutha, Assessment of Geostatistical Models for the Major Soil Nutrients for Tumkur District of Karnataka, India , International Journal of Recent Technology and Engineering (IJRTE), (**Scopus Indexed**) , ISSN: 2277-3878, Vol.8(4), 2019, pp. 9382-9387.  
<https://doi.org/10.35940/ijrte.D9606.118419>

Leena H.U., Premasudha B.G., P.K. Basavaraja, Data optimization and partitioning in private cloud using dynamic clusters for agricultural datasets, International Journal of Dynamics and Control, **Springer Nature** 2019(**Scopus Indexed**)(**Q2 Rating**). <https://doi.org/10.1007/s40435-019-00596-9>.

Thara D.K., Premasudha B.G., Fan Xiong, Auto-detection of epileptic seizure events using deep neural network with different feature scaling techniques, Pattern Recognition Letters 128, October 2019, **Elsevier**(**Scopus Indexed**) (**Q1 Rating**), pp. 544-550.  
<https://doi.org/10.1016/j.patrec.2019.10.029>

Thara D.K., Premasudha B.G., Fan Xiong, Epileptic seizure detection and prediction using Stacked bidirectional long short term memory, Pattern Recognition Letters 128, October 2019, **Elsevier**(**Scopus Indexed**) (**Q1 Rating**), pp. 529-535.  
<https://doi.org/10.1016/j.patrec.2019.10.034>

Thara D. K., Dr. B G Premasudha. Electroencephalogram analysis for Automatic Epileptic Seizure detection method using PyEEG, International Journal of Engineering Sciences and Management - A Multidisciplinary Publication of VTU, Vol. 1, No. 2, July 2019, pp. 22-26.

Mohan Kumar T.P., Premasudha B.G., An adaptive approach for maximum likelihood estimation to improve location accuracy of sensor nodes using RSS, International Journal of Innovative Research & Studies (IJIRS), (**Scopus Indexed**)(**Q3 Rating**) Vol. 8, Issue 6, June-2018.

Thara D K, Dr. B G Premasudha. A Review on Computer Aided Diagnosis of Epilepsy using Machine Learning and Deep Learning, International Journal of Research and Analytical Reviews (IJRAR), Vol. 6, Issue 2, May 2019, pp. 26-33.

## 2018

R Suma, Premasudha B G, Ravi Ram V. (in press), A novel Machine Learning based Attacker Detection (MLAD) system to secure Location Aided Routing in MANETs, International Journal of Networking and Virtual Organizations (IJNVO), Vol.22 No.1, pp.17 - 41, **Inderscience Publishers** (**Scopus Indexed**)(**Q4 Rating**). <https://10.1504/IJNVO.2020.104968>

Premasudha B.G., Mamatha G, et.al., Threshold Analysis Method using Threshold based Congestion Control Protocol in Wireless Sensor Networks for Node Optimization, International journal of Trend in research and Development, Vol. 5, Issue-3, May-June 2018, Impact Factor: 4.865, e-ISSN: 2394-9333

Premasudha B.G., D.R. Nagarohith, Development of an Android App for finding the Nearest Auto Services in Tumkur City, India: Wepathit.Com, International Journal of Modern Science and Technology, 3(1):1-5, 2018 , ISSN: 2456-0235

## 2017

Premasudha B.G., Leena H.U., H.K. Maharani, Spatiotemporal Analysis of Tuberculosis Incidence in Tumakuru District, Karnataka, India, International Journal of Modern Science and Technology (IJMST), Vol. 2(7), pp. 267-272. 2017. ISSN: 2456-0235

## 2016

V. Uma Maheswari, Premasudha B G, S. Viswanadha Raju, Content based Image Retrieval using Local Patterns: A Survey, International Journal of engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 5(10), 2016.

B G Premasudha, V Ravi Ram, J Miller, R Suma. A Review of Security Threats, Solutions and Trust Management in VANETs. International Journal of Next-Generation Computing (IJNGC), Vol. 7(1), pp. 38-57, 2016 . ISSN: 2229-4678. [**Indexed in DBLP, InSpec, EBSCOhost, Google Scholar**]

R Suma, Premasudha B G, Ravi Ram V, An Analysis on the Effect of Malicious Nodes on the Performance of LAR Protocol in MANETs. In the Proceedings of Third International Conference on Information System Design and Intelligent Applications (INDIA 2016), Volume 3, pp 623-633, 2016. ISBN 978-81-322-2757-1 (eBook) Springer AISC series. (**Scopus Indexed**)

Dr. B.G. Premasudha, Leena H.U. and Khadijatul Kubra Shaik, "Spatiotemporal Analysis of Infant and Maternal Morality of Mother and Child Tracking System", International Journal for Modern Trends in Science and Technology (IJMTST), Vol. 02(12), pp. 78 – 81, 2016.
<b>2015</b>
Devika G, Premasudha B G and Asha Gowda. A comparative study of energy efficient hierarchical wireless sensor network protocols. International Journal of Applied Research on Information Technology and Computing, Vol.6 (2), 2015.
Asha Gowda Karegowda, Premasudha B.G, Devika G. A Pragmatic Study of Evolutionary Techniques Based Energy Efficient Hierarchical routing protocols - LEACH And PEGASIS. International Journal of Applied Engineering Research, Vol.10 (17), pp38274-38285, 2015. <b>[Scopus Indexed]</b>
Mamatha G, Premasudha B.G. Borderline Coverage Analysis of a Wireless Sensor Network under Random Deployment using the Union of Collinear Chords. International Journal of Information Technology, Communications and Convergence (IJITCC), <b>Inderscience</b> Enterprises Ltd, Vol.3 (2), 2015.
Mohan Kumar T.P., Premasudha B.G. Localization Techniques in Wireless Sensor Networks: A Survey. International Journal of Advanced Information in Engineering Technology (IJAIET), Vol.10 (10), pp. 18-24,2015.
Premasudha B.G, M.Shanmugasundaram, S.Prasath, Development of RS and GIS based Indicator for Paddy Cultivation Lands, International Journal of Innovative Technology and Creative Engineering (ISSN:2045-8711), Vol.5 No.9 Sep 2015, pp 288-290.
<b>2014</b>
V.Ravi Ram, B. G. Premasudha. Investigating considerate factors for Robust VANET Application Development. Mediterranean Journal of Computers and Networks, Vol. 10, No. 3, pp. 295-301, July 2014, ISSN: 1744-2397. [UK journal indexed in IET/ InSpec]
Premasudha B G, Mamatha G. A Load Balancing Time Scheduling Algorithm for Sending Data in Wireless Sensor Networks. The Mediterranean Journal of Computers and Networks, Vol.10(3), PP 285-294,July 2014,ISSN:1744-2397. [UK journal indexed in IET/ InSpec]
Mamatha G, Premasudha B.G. Deployment Techniques of nodes in WSN for Multi Domain Applications-A Survey on their performance analysis. International Journal of Advanced Computer Research, 2014, eISSN- 22777970   pISSN 2249-7277. [Impact Factor 1.863]
<b>2013</b>
Suma R, Premasudha B.G. Geographical routing protocols for mobile ad hoc networks- a survey on their performance analysis. International Journal of Research in Engineering and Technology, Vol.02 (11) ,2013, eISSN: 2319-1163   pISSN: 2321-7308. [ Impact Factor 1.962]
<b>2012</b>
Mamatha G, Premasudha B.G.,( May,2012) Optimal Placement of Additional Sink Nodes in a Wireless Sensor Network, International Journal of Computer Science Engineering and Technology, Vol. 1(5), pp 1220-1225.
<b>2010</b>
Premasudha B.G., Adiga B.S. Application of spatial decision support system to Blood Bank Information systems. International Journal of Geoinformatics, Thailand, Vol. 6(2), pp 51-58, 2010.
Premasudha B.G., Swamy S.K.,Adiga B.S. Visualization and Analysis of Epidemical Data of Tumkur District Hospital using GIS. Research Journal of Engineering and Technology, Vol.1 (1), pp 8-17,2010.
Premasudha B.G., Sreekanth P. Krishnan and SuryanarayanaAdiga B. Simulation of Replica Allocation Algorithm in Adhoc Networks with Timestamping Method. Research Journal of Engineering and Technology, Vol.1 (1), 2010, pp 1-5.
<b>2009</b>

Premasudha B.G.,Swamy. S.K., Adiga B.S. An application to find Spatial Distribution of blood donors from blood bank information system. International Journal of Information Technology and Knowledge management, Vol. 2(2), pp 401-403, 2009.

Premasudha B.G., Swamy S.K.,Adiga B.S. A Location Intelligent tool for Finding an optimal Location for a Retail Pharmacy using Geographic Information System. Research Journal of Science and Technology, Vol.1 (1), pp 20-24, 2009.

## II. NATIONAL JOURNALS

2008

Premasudha B.G, Swamy S.K.,Adiga B.S. Mobi-Pharma: A Location Based Search for Finding nearest Pharmacy over the mobile internet. Pharmakine, Vol.1(2), pp.34-37, 2008 .

## Conference Proceedings

### INTERNATIONAL CONFERENCES

2025

Premasudha B G; Rajeev H R, “Enhanced Attribution Algorithms for Deepfake Image Detection”, 3rd International Conference on Smart Systems for applications in Electrical Sciences (ICSSES), Tumakuru, India, 2025.

2024

Premasudha B G;Vijayalaxmi Rampalli , “A Comparative Study of Logistic Regression, Support Vector Machines, and LSTM Networks for Sentiment Classification in Academic Reviews”, First International Conference on Innovations in Communications, Electrical and Computer Engineering (ICICEC) 2024

Sanjay S;Monish S P;B G Premasudha;Annapurna M “Machine learning based Acoustic Analysis and Classification of Infant cry to Identify Baby needs“,First International Conference on Innovations in Communications, Electrical and Computer Engineering (ICICEC) 2024

Puneeth S P;Poornima B;PremaSudha B.G;Patil N S;Puneetha B H;Ranjana B. Jadekar, “ An Effective Noise Removal Technique for Enhancing Ischemic Brain Stroke Computed Tomography Images”, First International Conference on Innovations in Communications, Electrical and Computer Engineering (ICICEC) 2024

Premasudha B G;Vinayak Patil, “Enhanced Sentiment Analysis of Airline Twitter Review Using Hybrid Machine Learning and Deep Learning Models”, First International Conference on Innovations in Communications, Electrical and Computer Engineering (ICICEC) 2024

Dr. Premasudha B G, Katti, Vijayalakshmi S, Srivishnavi H.M, “Pragmatic Study of Enterprise Data Breach and its Prevention Technique by DLPD” 15th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2024.

Seema B. Hegde, B. G. Premasudha, Abhishek C. Hooli, and M. J. Akshay, “A Review on Smart Traffic Management with Reinforcement Learning” Lecture Notes in Networks and Systems, pp. 455–470, 2024.

Akshay, M.J., Premasudha, B.G., Hegde, S.B., “IoT to Digital Twin: A Futuristic Smart Farming”, International Conference on Smart Systems for Applications in Electrical Sciences, ICSSES 2024.

2022

Premasudha B G, Thara D K, Tara K N “ML based methods XGBoost and Random Forest for Crop and Fertilizer Prediction”,14th IEEE International Conference on Computational Intelligence and Communication Networks (CICN2022), accepted to present on 4th to 6th of December 2022 at Prince Mohammad Bin Fahd University, Al-Khobar, Kingdom of Saudi Arabia.  
**DOI:10.1109/CICN56167.2022.10008234**



<p>Premasudha B G, Thara D K, Jeevan P R and Chitra G N, “Automated method for Covid-19 Prediction using VGG-19 Neural Network”, 3rd International conference on recent Innovation trends in Computer Science and Applications (ICRTICSA – 2022), 6th – 7th May 2022, Organized by Dept. of MCA, M S Ramaiah Institute of Technology, Bangalore, India.</p>
<b>2018</b>
<p>Ravi Ram V., Premasudha B.G., Suma R. “Design and Implementation of a Scenario-Based Communication Model for VANETs in EXata”, in Proceedings of the Second International Conference on Smart Computing and Informatics (SCI 2018) <b>Springer</b> , 27-28, Januray 2018, PVPSIT, Vijayawada, India, Volume 2, pp. 577-587.</p>
<b>2016</b>
<p>Thara D.K., Dr. Premasudha B.G., RaviRam V, Suma R, "Impact of Big Data in Health Care: A Survey", 2nd International Conference on Contemporary Computing and Informatics (ICCI), Dec 2016, pp. 785-791.</p> <p>Premasudha B G, Leena H.U., Basavaraja P K, Sensible approach for Soil Fertility Management using GIS Cloud. In the Proceedings of 2016 International Conference on Advances in Computing, Communications and Informatics (ICACCI), Sept. 21-24, 2016, Jaipur, India, pp 2776-2781, IEEE Explore.</p> <p>Premasudha B G, Leena H.U. ICT enabled proposed solutions for Soil Fertility Management in Indian Agriculture. Proceedings of 1st International Conference on Data Engineering and Communication Technology (ICDECT-2016), Vol 2, pp 749-757, Springer AISC series.</p> <p>R Suma, PremasudhaBG, Ravi RamV. An Analysis on the Effect of Malicious Nodes on the Performance of LAR Protocol in MANETs . In the Proceedings of Third International Conference on Information System Design and Intelligent Applications (INDIA 2016), Volume 3, 2016, pp 623-633. ISSN 2194-5365 (electronic), ISBN 978-81-322-2757-1 (eBook) Springer AISC series.</p>
<b>2015</b>
<p>Mamtha G, Premasudha B.G. Sensor Selection and Scheduling for Tracking a Moving Object in a Wireless Sensor Network using the Markov Additive Chain Model. International Conference on Applied and Theoretical Computing and Communication Technology, 29-31 October 2015,Davanagere, Karnataka,India.</p>
<b>2013</b>
<p>Mamatha G, Premasudha B.G. Centralized Grid System for Wireless Sensor Node and Algorithm for Information Accuracy. In the Proceedings of International Conference on Emerging Research in Computing, Information, Communication and Applications” – ERCICA 2013, <b>ELSEVIER Publication</b>, ISBN-9789351071020 Aug 1-3, 2013.</p>
<b>2011</b>
<p>Mamatha G, Premasudha B.G. A Graph Theory Approach to Load Balancing in Wireless Sensor Network. International Conference on Frontiers of Computer Science, Aug 7-9th, 2011, J.N.Tata Convention Centre, IISC, Bangalore.</p>
<b>2009</b>
<p>Premasudha B.G.,Swamy. S.K., Adiga B.S. An Integration of spatial decision support system to blood bank information systems. Fourth Indian International Conference on Artificial Intelligence, Dec 16-18, 2009, SIT, Tumkur.</p> <p>Premasudha B.G. Nearest neighbour and Profile based Nearest Neighbour Verification Process for Spatial Query processing in mobile system ICEDSP-09, IEEE Conference, Dec 10-12, 2009, MIT, Manipal.</p> <p>Premasudha B.G., Patil SDS, Epidemic analysis to Malaria Patients of Tumkur District Hospital using Web GIS. Third International conference on Health GIS, July 24-26, 2009, Hyderabad.</p> <p>Premasudha B.G.,Adiga B.S, Network of community blood bank: Eliminating blood shortage through Location Based Services. Map world Forum, February 10-13, 2009, Hyderabad.</p>

Premasudha B.G, Patils D S and Suryanaragana Adiga Web based GIS for Visualizing and Analyzing Epidemical Data of Tumkur District Hospital, 3 <sup>rd</sup> International Conference on HelathGIS2009 24-26 July, 2009 Hyderabad, India
<b>2008</b>
Premasudha B.G., Adiga B.S, Location based Application for Finding a Nearest Hospital/Doctor for an Emergency Services over the Mobile. International Conference on Positioning and Navigation, Location India 2008, Feb 7-8, 2008 at greater Noida, India.
<b>2007</b>
Premasudha B.G., Adiga B.S, Location based Application for accessing Emergency Pharmacy Services over the mobile. International Conference MAP MIDDLE EAST-2007, April 2nd -11th,2007 at Dubai , UAE. [Received Travel Grant from AICTE, New Delhi]
Premasudha B.G., Adiga B.S, Locating Nearest Pharmacy through Internet. International Conference and Indo-Canadian satellite Symposium on Pharmaceutical sciences, Technology, Practice and Natural health. Ooty, India, 24th-26th Feb 2007. [Received 3rd best paper award]

## NATIONAL CONFERENCES

<b>2020</b>
Leena H.U., Premasudha B.G., .PK. Basavaraja, H. Mohamed Saqeebulla and G.V. Gangamrutha, “GIS and Cloud Integrated Online Soil Fertility Management System”, Information and Communication Science & Technology, <b>107th Indian Science Congress, 3-7 Jan, 2020 at GKV, Bangalore.</b>
<b>2012</b>
Suma and Premasudha B.G. Comparative Study of Networks Location Based Routing Protocols in MANETS. National Conference on Computer Networks and Softcomputing,NCNS-12,SSIT,Tumkur.
Suma and Premasudha B.G. Location based Routing Protocols in MANETS. NACCET-2012,T johnCollege, Bangalore.
<b>2007</b>
PremasudhaB.G., Adiga B.S. Replica Allocation Algorithm in ADHOC Networks with time stamping method. Information Systems and Computer engineering-NICE 2007, Bangalore , October 5-6, 2007.

### Invited Lectures, talks and workshops

1. As a resource person for two days workshop on” Selenium Testing” held on March 10-11, 2023 at department of MCA, Dayananda Sagar academy of Technology and Management, Bangalore.
2. As a resource person for two days workshop on”-statistics and bioinformatics in biological research” to deliver a lecture on “Data analytics with R” at UAHS, Shivamogga on 3<sup>rd</sup> and 4<sup>th</sup> March 2018.
3. As a resource person for two days workshop on “Data science with R” at Vidyavardhaka college of engineering, Mysore in 2017.
4. As a resource person to Two days’ workshop on “Data Analytics using R-Tool” at R.V .College of Engineering, Bangalore on 23rd and 24th April 2016.
5. As a resource person to a TEQIP sponsored two days’ workshop on “Data Analytics using R-Tool” on 27th and 28th May 2016 at PES College of engineering, Mandya.
6. Worked as Convener for the two day workshop on “Data Analytics Using Hadoop” during 14<sup>th</sup> and 15<sup>th</sup> Feb. 2014 at SIT, Tumkur
7. Worked as Convener for the four day workshop on “Formulation of Research and Development Initiatives for Women Scientists and Technologists “, on 28<sup>th</sup> May to 2<sup>nd</sup> June, 2014 at **Engineering staff College of India, Hyderabad.**
8. Worked as Convener for the two days workshop on “Formulation of Research & Development Initiative for

Engineering Faculty” in coordination with **Engineering staff College of India, Hyderabad** , on 26th and 27th June 2014., at SIT ,Tumkur.