

# Department of Information science and Engineering

## VISION

Emerge as centre of learning in the field of information science & engineering with technical competency to serve the society.

## MISSION

To provide excellent learning environment through balanced curriculum, best teaching methods, mentoring and industry institute interaction.

## Contents

Sl. No	Particulars
1	Research Publications Summary
2	Citation Details of faculty
3	Research Publications for the Year 2018-19
4	Research Articles
4.1	A Study on Personalized Early Detection of Breast Cancer Using Modern Technology
4.2	Smartphone Price Prediction in Retail Industry Using Machine Learning Techniques
4.3	Need of Hadoop and Map Reduce for Processing and Managing Big Data
4.4	A Study on Big Data Privacy Protection Models using Data Masking Methods
4.5	Big Data Security Architecture using Split and Merge Method
4.6	Real Time Hand Gesture Recognition for Differently -abled using Deep Learning
4.7	Review on Natural Language Processing Trends and Techniques Using NLTK
4.8	Research Challenges in Big Data Security with Hadoop Platform
4.9	STAVI : Smart Travelling Application for the Visually Impaired
4.10	An Empirical Analysis of Passwords
4.11	Smart-Phone Price Prediction in Retail Industry Using Machine Learning Techniques
4.12	Cognitive based Data Classification in Image Steganography for Secured Data Transmission

4.13	Blinds Personal Assistant Application for Android
4.14	Autobot: Leveraging Cloud Service to enable IOT Connected Robotic Automaton
4.15	Long Short Term Memory Using Tensorflow and Keras Framework
4.16	Soft Computing and Its Applications
4.17	SMART COM FOR DIFFERENTLY ABLED
4.18	Smart Irrigation and Crop Yield Prediction Using Wireless Sensor Networks and Machine Learning
4.19	A Novel Approach to Secure Mysterious Location Based Routing For Manet
4.20	The Survey on Fuzzy logic: A Soft Computing Approach for Network Security
4.21	Object Detection using Single Shot Detector for a Self-Driving Car
4.22	Survey of Object Detection using Deep Neural Networks
4.23	Object Detection and Classification in Globally Inclusive Images Using Yolo
4.24	Survey on Faster Region Convolution Neural Network for Object Detection
4.25	Comparison on Hyper ledger Fabric and Hyper ledger Composer of Block Chain Technology
4.26	Security and Scalability Measurement of Distributed Databases of Cloud Computing

## THE EDITORIAL BOARD

**Honorary Editor:**  
**Dr. Usha B A**

**Editors:**  
**Dr. Pushpa S K**  
**Prof. Vinuth K**  
**Mrs. Arpitha H M**

## About Institution

In view of the growing demand for technical education and with the goal of establishing a premier technical education on par with international standards, a new technical institution by name 'BMS Institute of Technology and Management' was established in 2002. Currently, BMSIT&M offers seven UG, three PG programs and Ten programs have been recognized as research centers under VTU. All our eligible programmes are NBA accredited and NAAC accredited with 'A' grade. BMSIT&M considers research to be of equal importance as academics for the betterment of an institution. Research culture has been embraced well by the faculty members and research scholars at BMSIT&M. In this report, we present an overview of the research articles of Information Science and Engineering, BMSIT&M.

## Vision

**“To emerge as one of the nation’s finest technical institutions of higher learning to develop engineering professionals who are technically competent, ethical and environment friendly for betterment of the society.”**

## Mission

**“Accomplish stimulating learning environment through high quality academic instruction, innovation and industry – institute interface.”**

## **Department of Information Science and Engineering**

**Department is established in the year 2010 with an sanctioned intake of 60, enhanced to 120 from 2018-19 and to 180 from 2019-20 which is affiliated to VTU, recognized by AICTE. The department strives to be a center for excellence in the field of information Science with dedicated faculty, highly motivated students, state-of-the-art facilities and an innovative teaching-learning environment. The department runs UG - BE in information Science and Engineering and M.Sc. (Engg) and Ph.D Program. The UG - BE Program (ISE) was accredited by the National Board of Accreditation (NBA),New Delhi for 3 years valid up to 2021. The Department has adopted learner centric approach to groom the students in right direction. The Department has more than 200+ research articles published in various national/international conferences and Journals. Our Students has consistently demonstrated the excellent placement track record of above 90 percent. Our Students have demonstrated a high level of success at pursuing post graduate studies at top universities of the world as per QS World University Rankings. Few of our Students have turned into successful entrepreneurs and running their successful business in the areas of Software Services and Allied areas and department runs Jnan IT consulting services under CIPRAC.**

## **From HOD's Desk**

**It is my pleasure to present the fourth edition of Research Compendium of the Department of Information Science & Engineering. The main objective of the research compendium is to collate all the research contributions by our faculty members and students. It is evident that the Department is in-line with the on-going activities by the faculty members to cater the needs of industry to fill the gap between Industry and Institute. I hope this compendium continues its service to help the student community & faculty fraternity and attract more readers and provide an illuminating platform for the research community. I appreciate the efforts endorsed by all the faculty members and students of the department for their contribution towards the third edition of Department Research Compendium. I wish all the research community members for their active participation and keep continuing.**

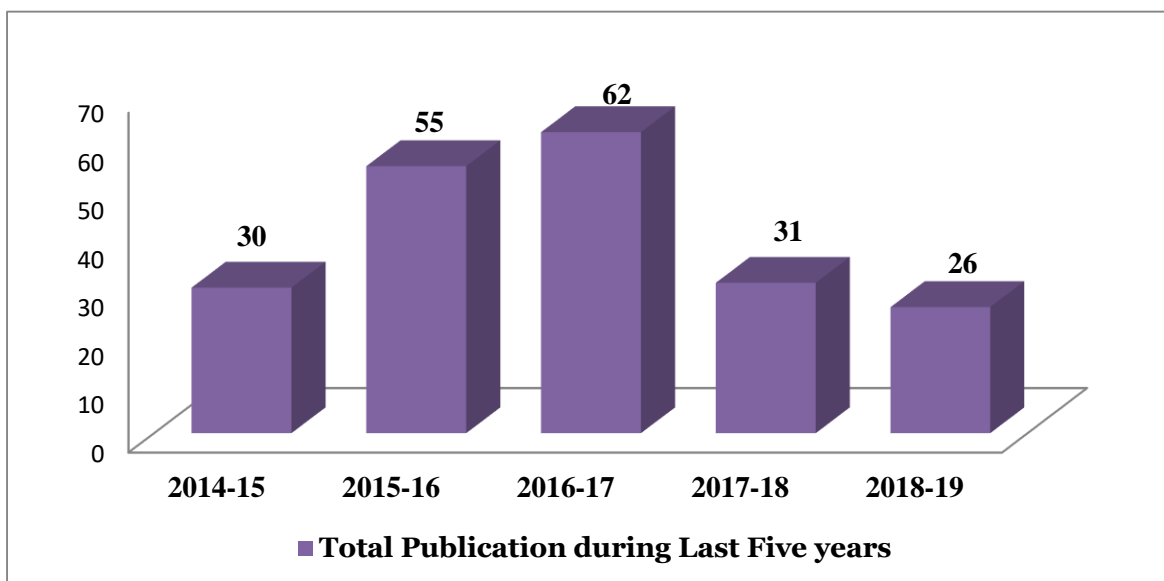
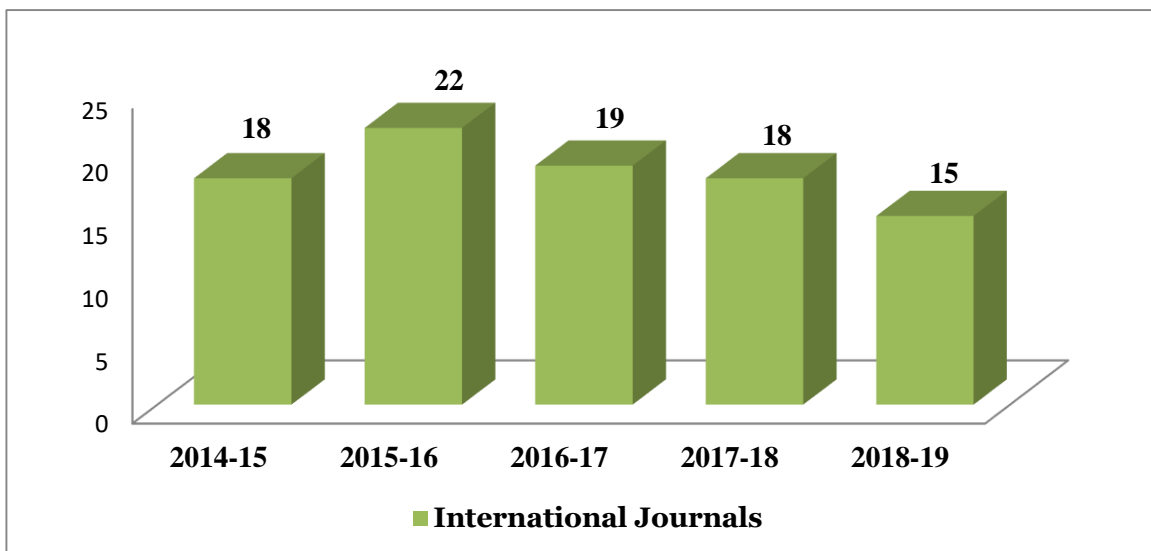
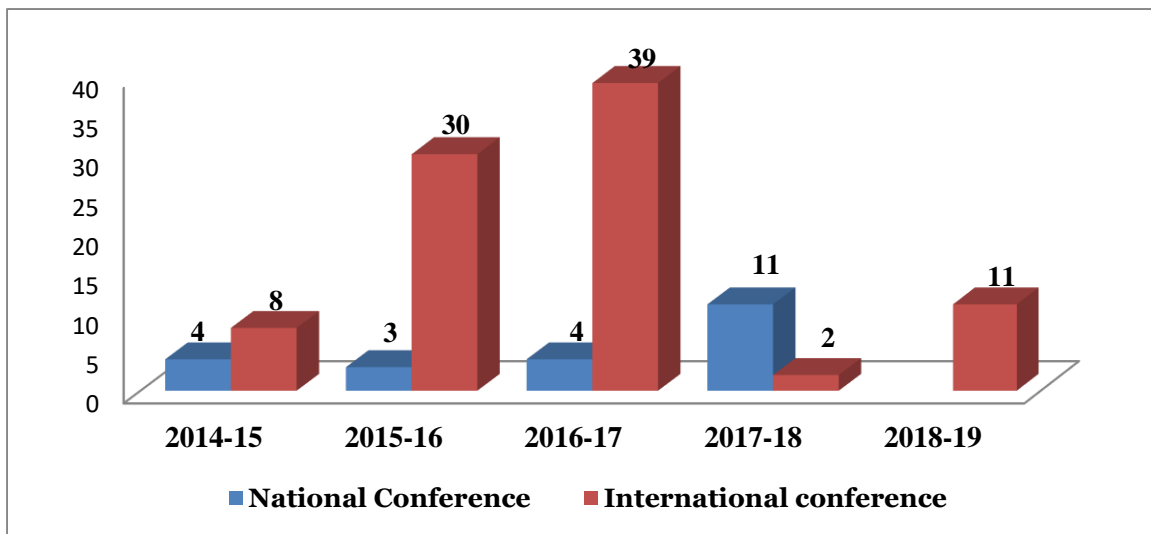
**Dr. Usha B A  
Associate Professor and Head**

## **Editorial Statement**

**It's my pleasure to be part of Editorial team for this Research Compendium 2019-20, published by the Department of Information Science & Engineering. The main objective of this research compendium is to motivate all the stakeholders and the research community to get themselves actively involved in research. It comprises of publication summary for past five years, citation details of faculty, and publications in Scientific Journals/Conferences for the academic year 2018-19. I whole heartedly thank all the faculty members for their contribution towards research compendium 2018-19.**

**Dr. Pushpa S. K**

### Research Publications Summary last Five years



## Research Publications for the Year 2017-18

Dr. Manjunath T N, Professor & External Dean, BMSIT&M	
<b>SPRINGER &amp; INTERNATIONAL JOURNALS</b>	
1	Dr. T N Manjunath, G Bhavya, Ravindra S Hegadi, Dr. S K Pushpa “ <b>A Study on Personalized Early Detection of Breast Cancer Using Modern Technology</b> ” Published in Springer, Singapore, Book : Emerging Research in Electronics, Computer Science and Technology, Pages: 355-362, date 2019.
2	Dr. Manjunath T N, K T Chandrashekhara, M Thungamani, C N Gireesh Babu “ <b>Smartphone Price Prediction in Retail Industry Using Machine Learning Techniques</b> ” published in Recent Trends in Image Processing and Pattern Recognition pp 329-335, Part of the Communications in Computer and Information Science book series (CCIS, volume 1035), Proceedings of RTIP2R 2018, <a href="https://doi.org/10.1007/978-981-13-9181-1_29">https://doi.org/10.1007/978-981-13-9181-1_29</a> , Print ISBN: 978-981-13-9180-4, Online ISBN: 978-981-13-9181-1, 20 <sup>th</sup> July 2019.
3	Dr. T N Manjunath, R A Archana, Ravindra S Hegadi, , “ <b>A Study on Big Data Privacy Protection Models using Data Masking Methods</b> ” in International Journal of Electrical and Computer Engineering (IJECE), Vol 8, issue 5, Pages 3976, on 1 <sup>st</sup> Oct 2018.
4	Dr. T N Manjunath, R A Archana, Ravindra S Hegadi, “ <b>Big Data Security Architecture using Split and Merge Method</b> ” in Indonesian Journal of Electrical Engineering and Computer Science, Vol11, issue 1, Pages 268-274 on July 2018.
<b>INTERNATIONAL CONFERENCE</b>	
5	Dr. Manjunath T N, A Channabasamma, RS Hegadi, “ <b>Need of Hadoop and Map Reduce for Processing and Managing Big Data</b> ”,
6	Dr. Manjunath T N, C N Gireesh Babu, M Thungamani, K T Chandrashekhara Presented a Paper titled “ <b>Real Time Hand Gesture Recognition for Differently -abled using Deep Learning</b> ” in Springer publishing International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R) at Solapur University, Solapur, held on 21 <sup>st</sup> and 22 <sup>nd</sup> Dec 2018 in association with Universidade de Evora, <i>PORTUGAL</i> and the University of South Dakota, <i>USA</i> .
7	Dr. T N Manjunath, D Yogish, , R S Hegadi, “ <b>Review on Natural Language Processing Trends and Techniques Using NLTK</b> ”, in Springer publishing International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R) at springer singapore held on 21 <sup>st</sup> Dec 2018.
8	Dr. T N Manjunath, RA Archana, Ravindra S Hegadi, MR Shrihari a paper title “ <b>Research Challenges in Big Data Security with Hadoop Platform</b> ” in springer publishing International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R) held on 21 <sup>st</sup> Dec 2018., pages 550-560.
9	Dr. Manjunath T N, Dr. Pushpa S. K, Prerana V, S Tejaswini, Jasmine Manandhar Santhosh T K, published a paper titled “ <b>STAVI : Smart Travelling Application for the Visually Impaired</b> ” in 4th International Conference on Communication and Electronics System (ICCES-2019), dated 17-19 <sup>th</sup> July 2019.
10	Dr. Manjunath T N, Dr. Pushpa S K, Gireesh Babu C N, Syed Furqan Azeez “ <b>An Empirical Analysis of Passwords</b> ” in IEEE Sponsored International Conference on Green Computing and Internet of Things (ICGCIoT 2018) at Global Academy Technology, Bengaluru on 16 <sup>th</sup> Aug 2018
11	Dr. Manjunath T N, C N Gireesh Babu, K T Chandrashekhara, published a paper “ <b>Smart-Phone Price Prediction in Retail Industry Using Machine Learning Techniques</b> ” in Springer International Conference on Emerging research in Electronics, Computer Science and Technology (ICERECT-2018), at PES College of Engineering, Mandya, India, during 23-24 August 2018.
<b>Dr. Usha B A , Associate Professors &amp; Head of the Dept.</b>	

<b>INTERNATIONAL JOURNALS</b>	
1.	Dr. Usha B. A. and Prof. Sangeetha K. N. “ <b>Cognitive based Data Classification in Image Steganography for Secured Data Transmission</b> ” in IJSRD - International Journal for Scientific Research & Development  Vol. 6, Issue 09, 2018   ISSN (online): 2321-0613
2	Dr. Usha B A, Prof. Sangeetha K N, Mr. Vikram C M “ <b>Blinds Personal Assistant Application for Android</b> ” in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887 Volume 7 Issue I, Jan 2019- Available at www.ijraset.com
<b>Dr. Pushpa S K, Professor</b>	
<b>INTERNATIONAL JOURNALS</b>	
1	Dr. Pushpa S K “ <b>A Study on Personalized Early Detection of Breast Cancer Using Modern Technology</b> ” Published in Springer, Singapore,Book : Emerging Research in Electronics, Computer Science and Technology, Pages: 355-362, date 2019.
<b>INTERNATIONAL CONFERENCE</b>	
2	Dr.Pushpa S. K, Dr. Manjunath T N,Prerana V, S Tejaswini, Jasmine Manandhar Santhosh T K, published a paper titled “ <b>STAVI : Smart Travelling Application for the Visually Impaired</b> ” in 4th International Conference on Communication and Electronics System(ICCES-2019), dated 17-19 <sup>th</sup> July 2019.
3	Dr. Pushpa S K,Gireesh Babu C N, Thungamani M, Muneshwara M S, published a paper titled “ <b>Autobot: Leveraging Cloud Service to enable IOT Connected Robotic Automaton</b> ” in IEEE Sponsored International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT - 2018) at Alva's Institute of Engineering & Technology, Mangalore, held on 7 <sup>th</sup> Sep 2018.
4	Dr. Pushpa S K,Gireesh Babu C N, Dr. Manjunath T N, Syed Furqan Azeez published a paper titled “ <b>An Empirical Analysis of Passwords</b> ” in IEEE Sponsored International Conference on Green Computing and Internet of Things (ICGCIoT 2018) at Global Academy Technology, Bengaluru on 16 <sup>th</sup> Aug 2018
<b>Mrs. S. Mahalakshmi S, Assistant Professor</b>	
<b>INTERNATIONAL JOURNALS</b>	
1	Prof.S.Mahalakshmi,HARSHITHA BG , V SHARANYA Published a paper titled “ <b>Long Short Term Memory Using Tensorflow and Keras Framework</b> “,in International Journal of Innovative Research in Science & Engineering , Vol 7, Issue 2, July 2019, PP: 1-9,ISSN (Online) 2347-3207 .
<b>Mrs. Shanthi D L, Assistant Professor</b>	
<b>INTERNATIONAL JOURNAL</b>	
1	Mrs. Shanthi D L, and Aashish Acharya “ <b>Soft Computing and Its Applications</b> ”, IJRST – International Journal for Innovative Research in Science & Technology  Volume 5   Issue 12   May 2019 ISSN (online): 2349-6010
<b>INTERNATIONAL CONFERENCE</b>	



2	Mrs. Shanthi D L presented a paper “ <b>SMART COM FOR DIFFERENTLY ABLED</b> ” at IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies & Optimization Techniques (ICEECCOT-2018) at GSSS Institute of Engineering and Technology for Women, Mysuru, Karnataka. On 14 <sup>th</sup> Dec 2018.
3.	Mrs. Shanthi D L presented a paper “ <b>Smart Irrigation and Crop Yield Prediction Using Wireless Sensor Networks and Machine Learning</b> ” in Springer Nature Singapore Pte Ltd. 2019 K. C. Santosh and R. S. Hegadi (Eds.): RTIP2R 2018, CCIS 1037, pp. 443–452, 2019. <a href="https://doi.org/10.1007/978-981-13-9187-3_40">https://doi.org/10.1007/978-981-13-9187-3_40</a>
<b>Mr.Chandrashekar K T , Assistant Professor</b>	
<b>SPRINGER</b>	
1.	Prof. Chandrashekar K T, “ <b>Smartphone Price Prediction in Retail Industry Using Machine Learning Techniques</b> ” published in Recent Trends in Image Processing and Pattern Recognition pp 329-335, Part of the Communications in Computer and Information Science book series (CCIS, volume 1035), Proceedings of RTIP2R 2018, <a href="https://doi.org/10.1007/978-981-13-9181-1_29">https://doi.org/10.1007/978-981-13-9181-1_29</a> , Print ISBN: 978-981-13-9180-4, Online ISBN: 978-981-13-9181-1, 20 <sup>th</sup> July 2019.
2.	Prof. Chandrashekar K T, Presented a Paper titled “ <b>Real Time Hand Gesture Recognition for Differently -abled using Deep Learning</b> ” in Springer publishing International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R) at Solapur University, Solapur, held on 21 <sup>st</sup> and 22 <sup>nd</sup> Dec 2018 in association with Universidade de Evora, <i>PORTUGAL</i> and the University of South Dakota, <i>USA</i> .
<b>Mr. Gireesh Babu C N</b>	
<b>SPRINGER INTERNATIONAL JOURNALS</b>	
1	Prof. Gireesh Babu C N, “ <b>Smartphone Price Prediction in Retail Industry Using Machine Learning Techniques</b> ” published in Recent Trends in Image Processing and Pattern Recognition pp 329-335, Part of the Communications in Computer and Information Science book series (CCIS, volume 1035), Proceedings of RTIP2R 2018, <a href="https://doi.org/10.1007/978-981-13-9181-1_29">https://doi.org/10.1007/978-981-13-9181-1_29</a> , Print ISBN: 978-981-13-9180-4, Online ISBN: 978-981-13-9181-1, 20 <sup>th</sup> July 2019.
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<b>INTERNATIONAL CONFERENCES</b>	
3	Prof. Gireesh Babu C N & Mrs. Shanthi D L presented a paper “ <b>SMART COM FOR DIFFERENTLY ABLED</b> ” at IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies & Optimization Techniques (ICEECCOT-2018) at GSSS Institute of Engineering and Technology for Women, Mysuru, Karnataka. On 14 <sup>th</sup> Dec 2018.
4	Dr. Pushpa S K,Gireesh Babu C N, Thungamani M, Muneshwara M S, published a paper titled “ <b>Autobot: Leveraging Cloud Service to enable IOT Connected Robotic Automaton</b> ” in IEEE Sponsored International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT - 2018) at Alva's Institute of Engineering & Technology, Mangalore, held on 7 <sup>th</sup> Sep 2018.

5	Dr. Pushpa S K,Gireesh Babu C N, Dr. Manjunath T N, Syed Furqan Azeez published a paper titled “ <b>An Empirical Analysis of Passwords</b> ” in IEEE Sponsored International Conference on Green Computing and Internet of Things (ICGCIoT 2018) at Global Academy Technology, Bengaluru on 16 <sup>th</sup> Aug 2018
<b>Mrs. Swetha M S</b>	
<b>INTERNATIONAL JOURNALS</b>	
1	Mrs. Swetha M S, Dr. Thungamani M, “ <b>A Novel Approach to Secure Mysterious Location Based Routing For Manet</b> ” in International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-7 May, 2019
2	Mrs. Swetha M S, Dr. Thungamani M, Miss. Srishti Suman, Mr. Muneshwara M S “ <b>The Survey on Fuzzy logic: A Soft Computing Approach for Network Security</b> ”, in International Journal for Innovative Research in Science & Technology (IJIRST)  Volume 5   Issue 11   April 2019 ISSN (online): 2349-6010
3	Mrs. Swetha M S, and Ms. Vallae Haritha “ <b>Object Detection using Single Shot Detector for a Self-Driving Car</b> ”, in International Journal for Innovative Research in Science & Technology  Volume 5   Issue 7   December 2018 ISSN (online): 2349-6010
4	Mrs. Swetha M S, Ms. Veena M Shellikeri , Mr. Muneshwara M S, Dr. Thungamani M “ <b>Survey of Object Detection using Deep Neural Networks</b> ”, International Journal of Advanced Research in Computer and Communication Engineering Vol. 7, Issue 11, November 2018. ISSN (Online) 2278-1021 ISSN (Print) 2319-5940
5	Mrs. Swetha M S , and Ms. Vineetha M “ <b>Object Detection and Classification in Globally Inclusive Images Using Yolo</b> ” in International Journal of Advance Research in Computer Science and Management Studies, Volume 6, Issue 12, December 2018, ISSN: 2321-7782 (Online) e-ISJN: A4372-3114 Impact Factor: 7.327
6	Mrs. Swetha M S, Dr. Thungamani M, Miss. Srishti Suman, Mr. Muneshwara M S “ <b>Survey on Faster Region Convolution Neural Network for Object Detection</b> ” in International Journal on Future Revolution in Computer Science & Communication Engineering ISSN: 2454-4248 Volume: 4 Issue: 11, IJFRCSCE   November 2018, Available @ <a href="http://www.ijfrcsce.org">http://www.ijfrcsce.org</a>
<b>INTERNATIONAL CONFERENCES</b>	
7	Mrs. Swetha M S, Dr. Thungamani M, Mr. Muneshwara M S, Ms. Vallae Haritha “ <b>Comparison on Hyper ledger Fabric and Hyper ledger Composer of Block Chain Technology</b> ”, Proceedings of the International Conference on Intelligent Computing and Control Systems (ICICCS 2019) DVD Part Number:CFP19K34-DVD; ISBN: 978-1-5386-8112-1. On 2019
<b>Amudha T, Programmer</b>	
<b>INTERNATIONAL JOURNAL</b>	
1	Amudha T, Sumithra Devi K A, Saravanan K “ <b>Security and Scalability Measurement of Distributed Databases of Cloud Computing</b> ” in International Journal of Applied Engineering Research ISSN 0973-4562 Volume 14, Number 2 (2019) pp. 534-538 © Research India Publications. <a href="http://www.ripublication.com">http://www.ripublication.com</a>

## Citation Details of faculty



**Dr. Manjunath T N Professor**

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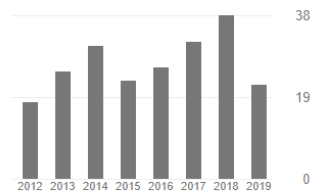
[Data Mining](#) [Big Data](#) [Cloud Computing](#) [Business Intelligence](#)

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TITLE	CITED BY	YEAR
<a href="#">A Study on Personalized Early Detection of Breast Cancer Using Modern Technology</a> G Bhavya, TN Manjunath, RS Hegadi, SK Pushpa Emerging Research in Electronics, Computer Science and Technology, 355-362		2019
<a href="#">Smartphone Price Prediction in Retail Industry Using Machine Learning Techniques</a> KT Chandrashekhara, M Thungamani, CNG Babu, TN Manjunath Emerging Research in Electronics, Computer Science and Technology, 363-373		2019
<a href="#">Need of Hadoop and Map Reduce for Processing and Managing Big Data</a> MT Narayanappa, A Channabasamma, RS Hegadi Web Services: Concepts, Methodologies, Tools, and Applications, 1588-1600	1	2019
<a href="#">Real Time Hand Gesture Recognition for Differently-Abled Using Deep Learning</a> CNG Babu, M Thungamani, KT Chandrashekhara, TN Manjunath International Conference on Recent Trends in Image Processing and Pattern ...		2018
<a href="#">Review on Natural Language Processing Trends and Techniques Using NLTK</a> D Yogish, TN Manjunath, RS Hegadi International Conference on Recent Trends in Image Processing and Pattern ...		2018
<a href="#">Research Challenges in Big Data Security with Hadoop Platform</a> MR Shrihari, TN Manjunath, RA Archana, RS Hegadi International Conference on Recent Trends in Image Processing and Pattern ...		2018
<a href="#">A Study on Big Data Privacy Protection Models using Data Masking Methods</a> RA Archana, RS Hegadi, TN Manjunath International Journal of Electrical and Computer Engineering 8 (5), 3976		2018
<a href="#">Big Data Security Architecture using Split and Merge Method</a> RA Archana, RS Hegadi, TN Manjunath Indonesian Journal of Electrical Engineering and Computer Science 11 (1 ...		2018

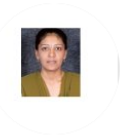
Cited by

	All	Since 2014
Citations	241	172
h-index	8	7
i10-index	6	6



Co-authors

- Ravindra Hegadi**  
Professor and Director, School of... >
- A R Reddy**  
No affiliation >



**Dr. Usha B A**

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Associate Professor in Dept of Information Science and Engineering, [BMSIT&M](#)

Verified email at bmsit.in

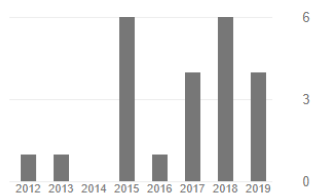
[Network Security](#) [Image Processing](#) [Image steganography](#)

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TITLE	CITED BY	YEAR
<a href="#">High Efficient Data Embedding in Image Steganography Using Parallel Programming</a> BA Usha Applications of Security, Mobile, Analytic, and Cloud (SMAC) Technologies ...	1	2018
<a href="#">Security enhancement in image steganography using neural networks and visual cryptography</a> KS Seethalakshmi, BA Usha, KN Sangeetha 2016 International Conference on Computation System and Information ...	7	2016
<a href="#">High Capacity Data Embedding Method in Image Steganography using Genetic Algorithm</a> BA Usha, NK Srinath International Journal of Computer Applications 121 (14)	1	2015
<a href="#">Cognitive prediction of the most appropriate image steganography approach</a> BA Usha, N Ksrinath, CN Ravikumar, P Vismayas International Journal of Computer Applications 121 (8)	1	2015
<a href="#">A Secure data embedding technique in Image Steganography for Medical Images</a> SKN Usha B A, Srinath N K, Narayan K International Journal of Advanced Research in Computer and Communication ...		2014
<a href="#">Image and Audio Embedding Technique in Image Steganography Using Neural Networks</a> BA Usha, NK Srinath, SM D'souza, KN Sangeetha Image 3 (8)		2014
<a href="#">Analysis on High Level Security Using Chaos-Fuzzy-Threshold Algorithm in Image Steganography – A Survey</a> AR Usha B A, Dr. N K Srinath, Aditya Nanjangud, Abhineet M Deshpande SPC ERA International Journal of Science, Technology and Engineering 1 (1)		2014

Cited by

	All	Since 2014
Citations	23	21
h-index	3	3
i10-index	0	0



Co-authors

- Sangeetha K N**  
Assistant Professor , Electronics ... >



**Pushpa S.K** ✎

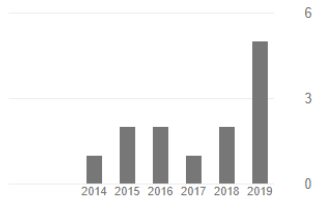
Visvesvaraya Technological University  
Verified email at bmsit.in  
Big data Wireless Sensor Networks

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TITLE	CITED BY	YEAR
<input type="checkbox"/> <a href="#">Class result prediction using machine learning</a> SK Pushpa, TN Manjunath, TV Mrunal, A Singh, C Suhas 2017 International Conference On Smart Technologies For Smart Nation ...	3	2017
<input type="checkbox"/> <a href="#">FPGA Implementation of AES using Vedic Mathematics</a> R Ambika, CS Mala, SK Pushpa International Journal in Innovative in Engineering and Science, ISSN (Online ...	3	
<input type="checkbox"/> <a href="#">Multidimensional distributed opinion extraction for sentiment analysis-a novel approach</a> DRK Raja, S Pushpa, BSN Kumar 2016 2nd International Conference on Advances in Electrical, Electronics ...	2	2016
<input type="checkbox"/> <a href="#">Effect of pH on solubility of white Mineral Trioxide Aggregate and Biodentine: An in vitro study</a> S Pushpa, C Maheshwari, G Maheshwari, N Sridevi, P Duggal, P Ahuja Journal of dental research, dental clinics, dental prospects 12 (3), 201	1	2018
<input type="checkbox"/> <a href="#">Dentin Bonding Agents–Current Status: An Update</a> S Pushpa, D Arunagiri, A Sawhny, S Nandamuri, M Iqbal, C Maheshwari J Dent Res Updates 1 (1), 18-22	1	2014
<input type="checkbox"/> <a href="#">A Novel Skeleton Extraction Algorithm for 3D Wireless Sensor Networks</a> KRK S. K. Pushpa, S. Ramachandran Global Journal of Computer Science and Technology, 13 (16)	1	2014

Cited by

	All	Since 2014
Citations	13	13
h-index	2	2
i10-index	0	0



Co-authors

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No co-authors



**Shanthy D.L**

BMSIT, Bangalore-64  
Verified email at bmsit.in  
Networks Network Security Wireless Sensor Networks parallel processing

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TITLE	CITED BY	YEAR
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