

High Performance Computing Research Group

1. About the High Performance Computing Research Group:

High Performance Computing Group (HPC), aims to promote the links between high performance computer users, developers and researchers in the college. We specialise in the application of advanced hardware and software technologies, targeting for Internet of Things (IoTs), Video Analytics, Data centres, Grid/Cloud based applications and distributed technologies etc.

The group aims are:

- To encourage and develop HPC expertise within the departments across the college.
- To increase the impact of HPC by fostering mutually supportive environments for research active staff involved in HPC and by encouraging collaboration, both within the college and outside the college.
- To facilitate exchange of ideas and to disseminate cutting edge HPC knowledge via research seminars and conferences.
- To provide an external reference point for communications with the wider community on HPC matters.

2. People:

(a) Group Head:Group Head: **Dr.P.M.Ashok Kumar**

(b) Internal Faculty:

1. Mr. G.V.Suresh
2. Mr. G.NageswaraRao
3. Mr. K.Gowtham
4. Mr. J.NageswaraRao
5. Mr. A. Praneetha
6. Mr. L.Kranthi Kumar

3. Facilities:

HP Pro 202 G1 Desktop:

Intel Core I3-3240 Processor
4GB DDR3 RAM, 500GB HDD, Integrated 10/100/1000 LAN, HP
Keyboard, HP Mouse, 18.5" LED Monitor 57-No's

Lenovo Edge73-10ASA06WIH

Intel Core I3-4150 Processor, Intel H81 Motherboard, 4GB DDR3
RAM, 500 GB HDD, Integrated 10/100/1000 LAN, 18.5" LED
Monitor, Keyboard, Mouse 17 No's

4. Publications:

(a) Journal Articles:

- **Ashok Kumar P.M**, Srinivasan A “Implementation of Facial Expression in Chat Box”, *International Journal of Pure and Applied Mathematics, Academic Publishers*, Vol: 119 No. 14c, pp: 221-228, 2018.
- **Ashok Kumar P.M**, Kavitha. D, “A Novel Multiple Geometric Features for Gender Classification”, *International Journal of Pure and Applied Mathematics, Academic Publishers*, Vol: 119 No. 14, pp: 9-18, 2018.
- **Ashok Kumar P.M.**, Arun Kumar S, “A Hybrid Generative-Discriminative Model for Abnormal Event Detection in Surveillance Video Scenes”, *International Journal of Information and Computer Security (IJICS), indersciencepublishers*, 2018(Article in Press).
- **LellaKranthi Kumar**, Dr. O. Ramadevi, " A Novel Research on Visual Re-ranking with Improved Image Graph", *IJRECE (UGC)*, Vol. 6 Issue 3, July - September 2018.
- G V Suresh, **P M Ashok Kumar**, " Partitioned Based sequential Regression Multiple Imputation for Missing Data Applications", *IOSR-JEN(UGC)*, Volume 8, September 2018.
- R Mohammed Sania Sultana, **G.V.Suresh**, "Opinion Mining on Twitter Data of Movie Reviews using", *IOSR Journal of Computer Engineering (IOSR-JCE)* e-ISSN:2278-0661, Volume 19, Issue 4, Ver. IV. (Jul.-Aug. 2017), PP:19-24.
- Pusukuri Lakshmi Prasanna, **L.Kranthi Kumar**, "Convergent Encryption Using Deduplication on Hybrid Cloud", *IOSR Journal of Computer Engineering (IOSRJCE)* e-ISSN: 2278-0661, Volume 19, Issue 4, Ver. V. (Jul.-Aug. 2017), PP 25- 29
- Yesubabu Elaparathi, **J.Nageswara Rao**, " Bi-Secting K-Means Of Document Clustering For Forensic Analysis of Computer Inspection", *IOSR Journal of Computer Engineering (IOSR-JCE)*, e-ISSN: 2278-0661, Volume 19, Issue 4, Ver. I (Jul.-Aug. 2017)
- **J.Nageswara Rao**, V.Alekya, "Effective Video Sharing In Online Social Network" *IJRIT*, ISSN: 2001-5569, Volume-3, Issue-7, July 2015
- **G.V.Suresh**, "Content Sharing Over Smartphone Based Delay Tolerant Networks", *IJCC* , ISSN:2319-894X, 2014-15.
- **G.Nageswara Rao**, "Prevention Of Vampire Attacks In Wireless Ad-Hoc Sensor Networks Without Back Tracking Method" *IJCC* , ISSN:2319-894X.

- **G.V.Suresh**, “ Creating user profiles using B+ Trees”, *IJSETR*, Vol-2, Issue-12, 2013-14.

(d) Conference Articles:

- **P M Ashok kumar**, Pugazhendi E “Cross-user level De-duplication using Distributive Soft Links” at IEEE -Intl conference on power, control signals and Instrumentation Engineering (ICPCSI), 2017 Saveetha engineering college, Chennai, Tamil Nadu, 21st & 22nd Oct '17.

(e) Patents:

- **Dr P M Ashok kumar** published Invention titled " Intelligent Traffic Violation Detection System (Application No : 201841012170 A) " in Indian Patent Journal.

5. News:

(a) Conference Conducted:

- Conducted **International Conference on Computational Intelligence & Data Engineering (ICCIDE)-2017, Springer, India** on 14-07-2017 to 15-07-2017.

(b) Workshops Conducted:

- Conducted Five day workshop on "HADOOP ECO SYSTEMS " organized by ISTE LBRCE STUDENT CHAPTER”, on 30-08-2016 to 03-09-2016.
- Conducted One week Workshop on "Big Data Analytics using Hadoop Eco-Systems" on 05-01-15 to 11-01-2015.
- Conducted One week Workshop on Workshop on "Cloud, Big Data & Hadoop", 23-01-2014 to 31-01-2014.
- Conducted Two Day AICTE Sponsored seminar on “Service oriented Architecture and Web Services”, 16-08-2013 & 17-08-2013.

(c) Seminars/ Guest Lectures Conducted:

- Delivered on “IBM BLUEMIX” on 17-03-2015 by Ch. Yukthesh, IBM consultant