

## 1<sup>st</sup> International Conference on Advanced and Intelligent Computing Technologies (ICAICT-2016)

### Executive Summary:

The Inaugural session of the 1<sup>st</sup> International Conference on Advanced and Intelligent Computing technologies (ICAICT-2016) was held on 25<sup>th</sup> August 2016 at Dr.M.V.Jayaraman Auditorium, MVJ College of Engineering.

ICAICT was organized to enhance skill set of attendees with help of leading experts having very wide experience on the topic of intelligent computing technologies. They shared their views and knowledge with students and faculty members over a period of 2 days, 3 keynote presentations by leading experts and research papers were shared by contestants. The conference was very highly appreciated by all attendees. Question and Answer session during the course of sessions were very useful as it gave an insight, different perspective & detailed information about the topics covered.

### Agenda:

DAY 1: 25 <sup>th</sup> AUGUST, 2016		
Time	Event	Venue
8.00a.m-9.00a.m	Registration	<b>Dr. M V Jayaraman Audit</b>
9.00a.m-9.10a.m	Invocation by MVJCE music club	
9.10a.m-9.15a.m	Lighting the lamp by dignitaries	
9.15a.m-9.20a.m	Welcome Address by Dr. Pauline M, Convener ICAICT-2016 , Professor & Head, Department of CSE, MVJCE	
9.20a.m-9.25a-m	Address by Prof.Brindha M, Vice Principal, MVJCE	

9.25a.m-9.30a.m	Introduction to the Chief-Guest Dr.K.V.Subramaniam, Professor, Department of CSE, Cloud Computing and Big Data Centre, PES University, Bengaluru, Karnataka by Mrs.Sanchari Saha, AP, CSE,MVJCE
9.30a.m-9.35a.m	Introduction to the Guest of Honour Prof. Tim Poston, Chief Scientist at Forus Health, Bengaluru, Karnataka by Mrs Usha Ruby, AP, CSE,MVJCE
9.35a.m-9.40a.m	Introduction to the Special-Guest & Governing Council Member(MVJCE) Dr.Viraj Kumar Professor, Department of CSE, PES University, Bengaluru, Karnataka by Mrs.Santhiya, AP, CSE,MVJCE
9.40a.m-10.00a.m	Conference Proceeding Release by the Chief-Guest Dr.K.V.Subramaniam

10.00a.m-11-00a.m	Key Note Address by Chief-Guest Dr.K.V.Subramaniam, Professor, Cloud Computing and Big Data Center, PES University.
11.00a.m-12.00p-m	Key Note Address by Guest of Honour Prof. Tim Poston, Chief Scientist at Forus Health, Bengaluru Area, India

12.00p.m-12.10p.m	Carnatic Music by MVJCE music club	
12.10p.m-12.20p-m	Multimedia Presentation	
<b>LUNCH BREAK(12.20 pm-1.00 pm)</b>		
1.00p-m-3.30 pm	<p>Paper Presentation -Session 1 Session Chair :</p> <ol style="list-style-type: none"> <li>1. Dr.B.Shadaksharappa Vice Principal &amp; Professor and Head, Department of CSE, Sri Sairam College of Engineering, VTU, Bengaluru.</li> <li>2. Dr.Viraj Kumar Professor, Department of CSE, PES University, Bengaluru, Karnataka</li> <li>3. Dr.Pauline M Professor and Head, Department of CSE, MVJCE, Bengaluru, Karnataka</li> </ol>	<b>Seminar Hall 4</b>
<b>TEA BREAK(3.30p-m-4.00p-m)</b>		
<b>DAY 2: 26<sup>th</sup> AUGUST, 2016</b>		
Time	Event	Venue
9.30a.m-11-00a-m	<p>Paper Presentation – Session 2 Session Chair :</p> <ol style="list-style-type: none"> <li>1. Mr.ChandramohanSubbiah Director, Oracle Management, Cloud, Analytics Product Development.</li> <li>2. Dr.Pauline M Professor and Head, Department of CSE, MVJCE, Bengaluru, Karnataka</li> <li>3. Dr.Deepthi Singhal Professor, Department of CSE, MVJCE, Bengaluru, Karnataka</li> </ol>	<b>Seminar Hall 4</b>
<b>TEA BREAK(11.00p.m-11.30p-m)</b>		

11.30a.m-1.00p.m	<p>Paper Presentation — Session 3 Session Chair :</p> <ol style="list-style-type: none"> <li>1. Mr.ChandramohanSubbiah Director, Oracle Management, Cloud, Analytics Product Development.</li> <li>2. Dr.Pauline M Professor and Head, Department of CSE, MVJCE, Bengaluru, Karnataka</li> <li>3. Dr.Deepthi Singhal Professor, Department of CSE, MVJCE, Bengaluru, Karnataka</li> </ol>	<b>Seminar Hall 4</b>
<b>LUNCH BREAK(1.00p.m-1.45p.m)</b>		
<b>VALEDICTORY</b>		
1.45p.m-1.50p.m	Carnatic Music by MVJCE Music Club	<b>Dr. M V Jayaraman Audit</b>
1.50p.m-2.00p.m	<p>Introduction to the Special-Guest &amp; Governing Council Member(MVJCE) Dr.Viraj Kumar Professor, Department of CSE, PES University, Bengaluru, Karnataka by Mrs.Santhiya , AP, CSE,MVJCE</p>	
2.00p.m - 3.00p.m	<p>Valedictory Key Note Address by the Special-Guest &amp; Governing Council Member(MVJCE) Dr.Viraj Kumar Professor, Department of CSE, PES University, Bengaluru, Karnataka</p>	
3.00p.m-3.30p-m	Participants Feedback Session and Certificate Distribution	

3.30p-m- 3.40p.m	Vote of Thanks by Mrs.Sindhuja K, Co-convener ICAICT 2016, AP, CSE,MVJCE	
<b>TEA BREAK(3.40p-m-4.00p-m)</b>		

## PROGRAM COMMITTEE

### PATRONS:

Professor K Thyagarajan, Director (R&D), MVJCE  
Professor M Brindha, Vice Principal, MVJCE.

### CONVENER:

Dr. Pauline M, Professor and HOD, Dept. of CSE,  
MVJCE.

### CO-CONVENER:

Mrs. Sindhuja K, Asst. Professor, Dept. of CSE,  
MVJCE.

## INTERNATIONAL ADVISORY COMMITTEE

1. Dr.George Ghinea  
Reader, Department of Computer  
Science, Brunel University, United  
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2. Ahmed Zobaa  
Senior Lecturer / MSc Course Director - Sustainable Electrical Power,  
  
College of Engineering Design and Physical Sciences, Department of Electronic  
and Computer Engineering, Brunel University, United Kingdom.
3. Dr.Maode Ma  
Assc. Professor, School of Electrical & Electronic  
Engineering, Nanyang Technological University,  
Singapore.
4. Sundaram Suresh  
Assistant Professor, School of Computer Engineering, Nanyang Technological  
University, Singapore.

5. IssamW.Damaj

Professor of Computer Engineering, Chairperson of the Electrical and Computer Engineering Department, College of Art and Sciences, American University of Kuwait.

6. Dr. Alicia Tang

Senior Lecturer, Department of System & Networking, University Tenaga Nasional, Malaysia.

7. Dr. Soong Der Chen

Associate Professor, Department of Graphics & Multimedia, University Tenaga Nasional, Malaysia.

8. C.SenthiPari

Senior Lecturer, Multimedia University, Malaysia.

#### NATIONALADVISORYCOMMITTEE

1. Dr.S.Chitrakala

Assoc. Professor,  
DCSE, College of Engineering, Chennai.

2. Dr.P.Aruna

Professor,  
Annamalai University, Tamil Nadu.

3. Dr.S.MarySairaBhanu

Assc. Professor, National Institute of Technology, Tiruchirapalli.

4. Dr. Kiran Assoc. Professor,

CDMM VIT University, Vellore.

5. Dr.Viraj Kumar

Professor, PES University, Bengaluru.

6. Dr.Anandkumar K.R

Academic Senate member, VTU, Belagavi.  
Chairman, BOS(CSE/ISE), VTU, Belagavi.  
Professor, Dept. Of CSE, SJBIT, Bengaluru.

7. Dr. S.N. Chandrasekar

Professor and Head/CSE, SriJagadguruChandrasekaranathaSwamiji Institute of Technology, Chickballapur.

8. Dr.B.Shadaksharappa

Vice Principal & Professor and Head, Department of CSE, SriSairam College of Engineering, VTU, Bengaluru.

9. Dr. Dinesh Anvekar  
Professor and HoD/CSE,  
Alpha College of Engineering, Bengaluru.
10. Dr. Prabhu Mohan Das  
Professor, Dept. of CSE, Adhiyamaan College of Engineering, Bengaluru.
11. Dr. S. Mohan Kumar  
Professor CSE,  
New Horizon College of Engineering, Bengaluru.

#### **COORDINATORS**

1. Mrs. Tamilarasi R, Asst. Professor, Dept. of CSE, MVJCE.
2. Mrs. Suganthi Sivakumar, Asst. Professor, Dept. of CSE, MVJCE.
3. Mrs. Seena Elizebeth Mathew, Asst. Professor, Dept. of CSE, MVJCE.

#### **ORGANIZING COMMITTEE**

1. Ms. Sreedevi N
2. Ms. Sivagamasundari G
3. Ms. Pramela Devi
4. Dr. Deepti Singhal
5. Ms. Sanchari Saha
6. Ms. Kavyashree
7. Ms. Preethi Sheba Hepsiba
8. Ms. Kalaimathi B
9. Ms. Santhiya M
10. Ms. Manju Khanna
11. Ms. Supriya V Sullad
12. Ms. Thanu Kurian
13. Ms. Sandhya Kumari
14. Ms. Madhusmita Das
15. Ms. Alpana Dahiya
16. Ms. Hymavathi
17. Ms. Akshaha
18. Ms. Vandana
19. Ms. Sudha Kamaraju
20. Ms. Bhagyalaxmi S Kullolli
21. Mr. Karthick
22. Ms. T Sujatha
23. Mr. Yusuf
24. Ms. Nisha
25. Ms. Manimozhi I
26. Ms. Usha Ruby
27. Ms. Deepa
28. Ms. Komal Agrawal
29. Ms. Aileen Emelda
30. Mr. Arun Kumar
31. Ms. C Suguna Devi
32. Ms. Jyothy Raj

33. Ms. AmitaSuke
34. Ms. Vidhyashree D M
35. Ms. Rashmi R K
36. Ms. Deepa Angadi
37. Mr. Vinay Pradeep Nadkarni

The session commenced on an auspicious note with the invocation song by the Music Club followed by lighting the lamp by the dignitaries.



Chief guest: Dr.K.VSubramaniam, Professor, Department CSE, Cloud Computing and Big Data Centre, PES University.

Guest of honour: Prof. Tim Poston, Chief Scientist at Forus Health who is an interdisciplinary scientist and the co-author of two famous books, one on geometry and general relativity and the other on catastrophe theory.

Special guest Dr.Viraj Kumar, professor department CSE, PES University who is also a Governing Council member of MVJCE.

Our chief guest Dr.K.VSubramaniam, guest of honour Prof. Tim Postom, special guest Dr.Viraj Kumar and all the faculties and the students were heartily welcomed by Dr. Pauline M, Convener of ICAICT-2016, professor and Head of The Department CSE.

The crowd was addressed by Prof.Brindha M, vice Principle, MVJCE. The audience was highly encouraged by her inspiring words.

Mrs. SanchariSaha, AP, CSE spoke about all the achievements of the chief guest Dr. K.V Subramaniam Professor, Department CSE, Cloud Computing and Big Data Centre, PES University.





Mrs. Usha Ruby A, spoke about our guest of honour prof.Tim Poston, Chief Scientist at Forus Health who is an interdisciplinary scientist and the co-author of two famous books, one on geometry and general relativity and the other on catastrophe theory.

Mrs. Santhya, AP, CSE spoke about our special guest Dr.Viraj Kumar, professor department CSE, PES University who is also a Governing Council member of MVJCE.

On the day 1 we had two speakers, Dr. K.V Subramaniam and Prof. Tim Poston. They addressed the gathering and spoke about what shaped their lives. Dr. K V Subramaniam released the conference proceedings and spoke in detail about cloud and big data.

Dr. Pauline M and Mrs. Brindha M distributed the memento as a token of love to Dr. Tim Poston and prof. K V Subramaniam respectively.

The inaugural session ended with a musical performance on flute by the music club

**DAY 1 - 25/08/2016**

### SPEAKERS

**1. Dr. K V Subramaniam:**

Spoke about cloud and computing for big data. He covered the following points

- Increasing use of computers causing increase in need for storage
- Reason behind large amount of data
- Old style data vs. big style data
- The four V's of big data - volume (scale of data), variety (different forms of data), velocity (analysis of streaming data), veracity (uncertainty of data)
- Shift from unicore to multicore

- Big data challenges – Hadoop is hard, scalability, data quality, security, cost management, algorithms, reliability, flexibility, ease of use
- Not scale up but scale out solution
- Case study on Cassandra QOS



## 2. Prof. Tim Poston:

He spoke about communication with the computer system. He covered the following points

- Need of proper communication
- Understanding human brains to understand computer system better
- Machine and artificial intelligence (power, limits, prospects)
- Machine vision, pattern recognition, decision making, reasoning and interpreting natural languages
- Using neuroscience and new mathematical techniques for improving artificial intelligence
- The Living Labyrinth
- Question and answer session



The morning session ended with a Carnatic music performance by the music club.

**Afternoon Session – 01.30pm – 03.30pm :**

The Paper Presentation - Session 1 was held at 01.30PM at the Seminar Hall-4, MVJCE, Bengaluru.

Mrs Usha Ruby.A, gave a brief introduction on Dr.B.Shadaksharappa Vice Principal & Professor and Head, Department of CSE, Sri Sairam College of Engineering, VTU, Bengaluru and Dr. Pauline M, Convener of ICAICT-2016, professor and Head of The Department CSE, MVJCE, Bengaluru.

Mrs Manimozhi.I, spoke about special guest Dr.Viraj Kumar, Professor Department of CSE, PES University who is also a Governing Council member of MVJCE.

Duration of 20 minutes time was allotted to each participant for their presentation; this was followed by Q&A session of 10 minutes duration.

Below are the presentations for this session:

SN	Paper ID	Paper Title	Authors Name
1	ICAICT_22	Internet of Things Architecture and Applications – A Survey	Tabassum Ara PritamGajkumar Sha M.Prabhakar

2	ICAICT_21	HTTP Botnet Defence Mechanism Using System Dynamics Based Genetic Algorithm	SeenaElizebeth Mathew
3	ICAICT_23	Configuring Linux System Router for Internet Protocol Based Multimedia Communication Network	C.Sivaprakash
4	ICAICT_9	A Survey of Security in Internet of Things – Importance and Solutions	JaveriaAmbareen PritamGajkumar Sha M.Prabhakar
5	ICAICT_15	IPB – Implementation of Parallel Mining for Big data	Dr. Neha Mangla Sushma K LithinKumble

Brief of all the above Paper Presentation covered for this session:

1. **Internet of Things Architecture and Applications - A Survey** by *Tabassum Ara*
  - Application of Internet of Things
  - Architecture of IOT.
  - IOT security challenges.
    - RFID system threats.
  - Security implementation attempts.
  
2. **HTTP Botnet Defence Mechanism Using System Dynamics Based Genetic Algorithm** by *SeenaElizebeth Mathew*
  - BOTNET
  - Cyber Attack
  - DPR based Detection
  - Limitation of DPR
  - Genetic Algorithm based layered HTTP BOTNET Defence
  
3. **Configuring Linux System Router for Internet Protocol Based Multimedia Communication Network** by *C.Sivaprakash*
  - Network Lab

- Configuring Linux System as Router
- Protocols used

4. **A Survey of Security in Internet of Things – Importance and Solutions** by *JaveriaAmbareen*

- IOT Scenario
- Characteristic of IOT Actors
- IOT Architecture
- IOT Protocol Stack
- Integration of Devices into IOT
- Security Challenges

5. **IPB – Implementation of Parallel Mining for Big data** by *Sushma K*

- Traditional System (RTOOL)
- HDFS- Storage System of Hadoop
- MAP Reduction
- IPB Over Existing Tool

The panel of Judges conducted the evaluation of the Technical Papers which were presented by the participants on the respective subjects ending Day1 Afternoon session.

**Day 2 – 26/08/2016**

The Paper Presentation - Session 2 was held at 10:30 at the Seminar Hall-4, MVJCE, and Bengaluru.

Mrs Usha Ruby.A, gave a brief introduction on Mr. ChandramohanSubbiah Director, Oracle Management, Cloud, Analytics Product Development, Dr. Pauline M, Convener of ICAICT-2016, professor and Head of The Department CSE, MVJCE, Bengaluru and Dr.Deepthi, Professor Department of CSE, MVJCE.

Duration of 20 minutes time was allotted to each participant for their presentation; this was followed by Q&A session of 10 minutes duration.

Below are the presentations for this session:

SN	Paper ID	Paper Title	Authors Name
1	ICAICT_20	Data Analysis between Various Symmetric Encryption Algorithms on wireless Security	A.Malathi S.Revathi

2	ICAICT_4	Predicting the Sentimental Reviews in Tamil Movie using Machine Learning Algorithms	Shriya Se Vinayakumar Anand Kumar K P Soman
3	ICAICT_10	An Improvement in Defect Detection Efficiency	Supriya.V.Sullad
4	ICAICT_18	Defects Detection in Pattern Texture Analysis Based on Kernel Selection in Support Vector Machine	I.Manimozhi Dr.S.Janakiraman
5	ICAICT_17	Use of central Mediator System and Cluster Head in Maintaining Fault Tolerance and Balancing the Load of MWBAN(Multithreaded Wireless Body Area Network) Data	Mrs.Sanchari Saha
6	ICAICT_19	Predicting Human Productivity for an Organization	Karthick J Mohammed Yousuf



6. **Data Analysis between Various Symmetric Encryption Algorithms on wireless Security** by *S.Revathi*.
  - Introduction To WLAN.
  - Measures To Protect Wireless Networks.
  - Network Security Attacks.
  - Security Modes.
  - AES Algorithm And Its Specification.
  - RC4 Vs. AES.
  
7. **Predicting the Sentimental Reviews in Tamil Movie using Machine Learning Algorithms** by *Shriya Se*.
  - Movie Review Collection.
  - Manually Classified Reviews.
  - Training Data.
  - Feature Extraction.
  
8. **An Improvement in Defect Detection Efficiency** by *Supriya.V.Sullad*.
  - Comparison of Different Software Development Approaches.
  - Six Sigma Methodologies.
  - Agile Approach.
  - Defect Analysis.
  - Case Study on Comparing the Defect Detection Effectiveness.
  
9. **Defects Detection in Pattern Texture Analysis Based on Kernel Selection in Support Vector Machine** by *I.Manimozhi*.
  - Visual inspiration.
  - Detection of fault in fabric in automated way.
  - Previous works of patterned fabric defect.
  - Kernel method to detect.
    - Input Images.
    - Polynomial Kernel Based SVM.
    - Cluster Defects.
  - SVM (Support Vector Machine).
  
10. **Use of central Mediator System and Cluster Head in Maintaining Fault Tolerance and Balancing the Load of MWBAN(Multithreaded Wireless Body Area Network) Data** by *SanchariSaha*.
  - Multithreaded Wireless Body Network.
  - Architecture of Wireless Body Area Network.
  - Functioning of 3-tier.
  - Central Mediator System Model.
  - Fault Tolerance.
  - Applications.
  
11. **Predicting Human Productivity for an Organization** by *Karthick J*.

- Human capital
- Existing systems
  - Kahya
  - Qasem A
  - V. Kalaivani
- Analysis of Algorithm

Dr. Pauline M felicitated The Chair Person Mr ChandramohanSubbiah with a memento as a token of gratitude and ended the forenoon session.

### VALIDATORY SESSION

#### SPEAKERS

1. Dr.Viraj Kumar :

Spoke about human and artificial intelligence. He covered the following topics

- Brute force + human intelligence – chess example
- Automated proofs
- Human intelligence
- Artificial intelligence
- What to be done to implement human intelligence as an individual as well as an institution.

Finally, the certificates were issued by the Speakers and feedback was collected from all department faculty participants.

The session ended with a vote of thanks by Mrs. Sindhuja K, co-convener ICAICT 2016, AP, CSE, and MVJCE.



