



# Cascade

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## Editorial

### Cloud Computing

Cloud computing technology has been a new buzzword in the IT industry and expecting a new horizon for coming world. It is a style of computing which is having dynamically scalable virtualized resources provided as a service over the Internet. It reduces the time required to procure heavy resources and boot new server instances in minutes, allowing one to quickly scale capacity, both up and down, as ones requirement changes. Nevertheless the technology is hot in the market and is ready to cater to the small and medium business segment.

Cloud computing is emerging at the convergence of three major trends — service orientation, virtualization and standardization of computing through the Internet. Cloud computing enables users and developers to utilize services without knowledge of, expertise with, nor control over the technology infrastructure that supports them. The concept generally incorporates combinations of - Infrastructure as a service (IaaS), Platform as a service (PaaS), and Software as a service (SaaS).

Cloud computing customers do not generally own the physical infrastructure serving as host to the software platform in question. Instead, they avoid capital expenditure by renting usage from a third-party provider. The entire onus lies on the service provider who owns the huge scalable and variable host of infrastructure, software and bundle of other services. Cloud computing consumers consume resources as a service and pay only for resources that they use. Many cloud-computing offerings employ the utility computing model, which is analogous to how traditional utility services (such as electricity) are consumed, while others bill on a subscription basis. Sharing "perishable and intangible" computing power among multiple tenants can improve utilization rates, as servers are not unnecessarily left idle (which can reduce costs significantly while increasing the speed of application development).

While there are benefits, there are privacy and security concerns too. Data is travelling over the Internet and is stored in remote locations. In addition, cloud providers often serve multiple customers simultaneously. All of this may raise the scale of exposure to possible breaches, both accidental and deliberate.

## Events conducted at IE Building, Bharath Heavy Electricals Ltd.(BHEL)

A lecture programme was arranged on the topic 'IP Telephony and its Features' on 13<sup>th</sup> August 2013 in the Institution of Engineers (IE) Building, BHEL. Shri A. Kalai Selvan, Sr. Engineer, Informatics Centre, BHEL, Tiruchirappalli spoke on the topic. In his talk, he explained the basics of IP Telephony and the some voice parameters for implementing IP telephony. He also discussed about the trends in enterprise IP telephony, protocols that provide VoIP communication services, and quality of service. He also touched upon the benefits of IP telephony implementation from the customer, maintenance team and management perspectives.



On 10<sup>th</sup> September 2013 a lecture programme was conducted on the topic 'Cloud Computing' by Mr. A. Raghunathan, Sr. DGM, Informatic Centre, Bharath Heavy Electricals Ltd., Tiruchirapalli. He briefed on the basics of cloud and cloud computing. He also explained concept of green cloud, cloud adoption and virtualization. He also discussed about the cloud variants, deployment models and some cloud providers in India.

A lecture on 'Study on Effect of Process Variables on GTAW Arc Parameters by Imaging Process' was delivered by Dr. Sanjeevi Arul, Associate Professor, Department of Mechanical Engineering, Amrita University, Coimbatore on 8<sup>th</sup> October 2013.



A special lecture was arranged on 'Web Application Security' by Ms. M. J. Divya, Engineer, ITS&S.(FB), Bharat Heavy Electricals Limited, Tiruchirappalli on 12<sup>th</sup> November 2013. In her talk she clearly explained about the various security threats such as Cross Site Scripting, SQL Injection, Denial of Service, Code Execution, and Cross Site Request Forgery. She also briefed about the 10 principles of secure programming.



## Events conducted at Bharathidasan University Technology Park (BUTP)



On 16<sup>th</sup> August 2013 a Workshop on Ontologies & Web Services was conducted by Dr. Farida Begam, Manipal University, Dubai for MCA and M.Tech. IT students. In her talk she said, Semantic Web Services aim at an integrated technology for the next generation of the Web by combining Semantic Web technologies and Web Services, thereby turning the Internet from a information repository for human consumption into a world-wide system for distributed web computing.

On 5<sup>th</sup> September 2013, in the occasion of teacher's day, a sapling plantation ceremony was organized by the CSI, BUTP and CSBDU along with the Students, faculty members of the university. The event was proceeded to gift an individual sapling to each of the faculty members of the department.



On 8<sup>th</sup> October 2013, a lecture was organized on the Advanced Query Processing among Entomological Databases by Mrs. L . Melita, Research Scholar in CSBDU. She spoke about the importance and benefits of advanced query processing with entomological databases. She also highlighted on how such query processing help researchers in entomology.

On 15<sup>th</sup> October 2013, a lecture was delivered on the topic 'Establishment of Reliable, Credible routing protocol with maximum connectivity for wireless sensor networks through secured and aggregated data approach' by Ms. M. P. Anuradha, Research Scholar, Bharathidasan University, Tiruchirapalli. In her talk, she gave an comparison of her approach with other existing methods.



## Events conducted at Bharathidasan University Technology Park (BUTP)

On 23<sup>rd</sup> October 2013 a Workshop on Google Apps Development for Education was conducted. This workshop is an exclusive and unique event for academia, first time in Tiruchirappalli, for exploring faculty and students to the wide spectrum of Google apps. This is jointly organized by Computer Society of India which is the only professional organization for computer science professionals. Google Apps Development is a Cloud Based Messaging & Collaboration Solution which provides Institute an Enterprise Class platform and Applications.



## Events conducted at Jamal Mohamed College (JMC)

Mr. R. Rajesh, Technical Trainer & Ad-Film Maker, PC Media Lab, Tiruchirappalli gave a presentation and demo on 'Animation & Graphics Designing' on 3<sup>rd</sup> September 2013 at 03.00 p.m. for the MCA and M.Sc. Computer students of the afternoon shift. He highlighted on the various software to be learnt for designing animation and graphics. He also gave clear picture of the job prospects in this field. PG students attended the programme and derived benefits.



Mr. V.M. Samsudeen of Final year MCA gave a lecture on 'Internet Basics' for the First and Second Year students of B.Sc. (Computer Science) on 18<sup>th</sup> September 2013 at 03.00 p.m. He also demonstrated the usage of internet for email, browsing, online shopping, e-ticket booking and internet banking. The students participated with great enthusiasm and frequently interacted with the speaker.

## Voice of Love

**When you hold your peace above everything else then no thing and no one can disturb you.  
When you hold your ego above everything else then everything and everyone disturbs you.**

**You never appreciate all of the things your mother did for you  
until you find yourself doing the same thing for your kids.**



## Events conducted at Jamal Mohamed College (JMC)

### Inter-Collegiate Technical Symposium – SWAP 2K13

The Department of Computer Science of Jamal Mohamed College in association with CSI Tiruchirappalli Chapter organized an Inter-Collegiate Technical Symposium – SWAP 2K13 on 7<sup>th</sup> & 8<sup>th</sup> October 2013. Mr. Ameer Faisal, Project Manager, Tata Consultancy Services, Bangalore inaugurated the symposium.

The events like Animation, Code Conversion, Debugging, Extempore, IT Marketing, Quiz, Stress Management, Treasure Hunt, Web Designing and Word Hunt were conducted on these two days. Around 226 students from 35 Arts, Science & Engineering colleges and universities, participated in various events.

Mr. Gokul Visweswaran, an illustrious alumnus, Director, Effect Works, Chennai delivered the valedictory address and distributed the prizes & certificates. The students of New College, Chennai bagged the overall championship.



Mr. J. Ashik Shah, Managing Director, Vidura Placement & Training Academy, Bangalore delivered a 'Placement Talk' on 22<sup>nd</sup> October 2013 at 09.30 a.m. Final year PG students attended the programme. The speaker greatly emphasized on the technical and non-technical skills to be developed by the students to get better placements. He also said that the students should have good aptitude and the right attitude for better performance in the recruitment programmes.

## Voice of Love

**Be grateful when you don't know something, for it gives you an opportunity to learn.**

**It is easy to be grateful for the good things,  
but a life of fulfillment comes when you are also thankful for the setbacks.**

**Every man has the responsibility to lift himself and in turn lift the world.**

## Events conducted at MAM College of Engineering (MAMCE)

The Department of CSE organized a One-day ESDM (Electronic System Design and Manufacturing) workshop on 8.11.2013. A sum of Rs.24,000/- was granted by CSI for the conduct of the workshop. A batch of 50 students from the first year participated in the workshop. Four sessions were held during the workshop. Session-1 was handled by Mr. I. Jerald, Managing Director, J. R. Communications & Power Controls, Tiruchirappalli. The topic was 'PCB Design for Inverter Controls'. Session-2 was on the topic 'Digital System Design using FSM from the Specifications'. The Resource Person was Prof. Shriram, Assistant Professor in ECE, MAM College of Engineering. The topic for Session-3 was 'Building Circuits using Electronic Components & Testing'. Prof. Muthu Kumar, Assistant Professor in ECE, MAM College of Engineering conducted the session. In the Session-4, the participants were directly taken to J. R. Communications & Power Controls and PCB design for inverters was demonstrated by Mr. Rajendran, General Manager, J.R. Communications & Power Controls, Tiruchirappalli.

## Inter-School Quiz Contest

An inter-school quiz contest was in association with Sri Jayendra Matric Higher Secondary School, Tiruchirappalli on 7<sup>th</sup> September 2013. 25 schools participated in this contest. Dr.M.A. Maluk Mohammed, Regional Student Co-ordinator, Computer Society of India and Principal, MAM College of Engineering deliver the Presidential Address. Dr. K. Meena, Past Chairperson, Computer Society of India and Former Vice Chancellor, Bharathidasan University, Tiruchirappalli delivered the valedictory address and distributed the Prizes and Certificates to the winners. The Vidya Seva Ratnam K.Santhanam Rolling Trophy was presented to the winning team. The students of Sri Vagesha Vidhyashram, Srirangam, Tiruchirappalli bagged this trophy. The students of Sri Vidya Mandir Matric Hr. Sec. School, Attur Main Road, Thuraiyur and those of Mahatma Gandhi Centenary Vidyalaya, 35, Tennur High Road, Tennur, Tiruchirappalli won the second and third prize respectively. The consolation prize went to the students of Sri Vivekananda Matric School, Umar Nagar, Sirudaiyur, Lalgudi. All the other participants were also honoured with prizes and certificates. Dr. Gopinath Ganapathy, Chairman, Computer Society of India, Tiruchirappalli Chapter and Director, Bharathidasan University Technology Park (BUTP), Shri. S. Kunjithapatham, Secretary, Sri Jayenda Matric Hr. Sec. School and Prof. G. Balakrishnan, Quiz Master and Retd. Vice-Principal, St. Joseph's College offered felicitations.



## Voice of Love

**When someone comes into your life, God sent them for a reason;  
either to learn from them or to be with them until the end**

**The long you wait for something, the more you appreciate it when you get it,  
because anything worth having is definitely worth waiting for.**

**Making a million friends is not a miracle, the miracle is to make a friend who will stand by you  
when millions are against you.**



## Dr. S.V. Raghavan in Tiruchirappalli



Our CSI National President, Dr. S.V. Raghavan was here in Tiruchirappalli City on 20<sup>th</sup> September 2013. We had our MC meeting along with him at Hotel Sangam at 5.00 p.m. During the meeting, the President shared some of his experiences and thoughts regarding various issues related to recent developments and future trends in information technology. In his dialogue session with our members, he said that :

- Technology keeps on changing in two or three years and new one gets into existence.
- Automotive electronics will come up in a big way in Tamil Nadu.
- The hardware architecture is changing phenomenally, 128 core CPU is about to be launched.
- Penetration of android will bring a big change into existence of operating systems.
- All electronics needs to be developed for the recent advancement in the automobile industry, for the current need.
- Smaller units need to develop in a bigger way to cater to the needs of the population of our country as the job offered by larger companies are less than 30% of the demand. Hence a standardization of the coexistence of larger and smaller units becomes essential to the society.
- Lectures and seminars need to be organized according to the solutions that can be offered to the local need, rather than the common type of lectures throughout the country.
- Research done in our country to be relevant to the need of our society thus bringing the real need of the people.
- 3D printing and additive manufacturing is going to bring a revolution into the society.
- MHRD is going to launch 50 educational channels through DTH as a pilot project and 1000 channels as the project.
- We have to look at opportunities which the nature has given us.

# Minutes of Management Committee Meetings

## MINUTES OF THE MC MEETING HELD ON 27-08-2013

Venue: BUTP office, Khajamalai, Tiruchirappalli; Time: 06.00 p.m.

**Members Present:** Dr. Gopinath Ganapathy, Mr. G.S. Ragunathan, Dr. T. Abdul Razak, Mr. N. Rajasekaran, Mr. S. Ravimaran, Dr. M.A. Maluk Mohamed, Mr. D. Varatharajalu, Mr. A. Jahir Husain, Mr. S. Venkatasubramanian, Mr. R. Selvaraj

### **Agenda:**

1. Submission of accounts for the year 2012-2013.
2. Annual General Meeting.
3. Conduct of National Conference / Seminar / Workshop.
4. Any other matter.

### **Resolutions:**

1. Resolved to entrust the Treasurer with the job of submitting the chapter accounts to the auditors and then submitting the audited accounts to the CSI headquarters at the earliest.
2. Resolved to conduct the AGM on 23<sup>rd</sup> September 2013 in the BUTP at 06.00 p.m. Mementoes to be given to all the members during the AGM. The mementoes, in stock, to be used for the purpose. Mr. N. Rajasekaran, Mr. R. Selvaraj and Mr. D. Varatharajalu will take care of arrangements for the AGM. A press release shall be given after the AGM.
3. Resolved to conduct a Symposium for the school students. Mr. S. Ravimaran, Mr. N. Rajasekaran, and Mr. G.S. Ragunathan will take care of this event.
4. Resolved to announce a Best IT Teacher Award on the auspices of the Teachers' Day on 5<sup>th</sup> September 2013. Dr. T. Abdul Razak, and Mr. A. Jahir Hussain will finalize the modalities for the announcement of the award. A press release regarding this award shall be given.
5. Resolved to conduct a National Seminar-cum-Exhibition on the theme 'Big Data' on 25th January 2014. Mr. S. Ravimaran and Mr. S. Venkatasubramanian will look after the arrangements.

## MINUTES OF THE MC MEETING HELD ON 20-09-2013

The Management Committee meeting was initially decided to be conducted at BUTP, Khajamalai, Tiruchirappalli. As Dr. S.V. Raghavan, CSI National president visited Tiruchirappalli today; the MC meeting was held in Hotel Sangam, Tiruchirappalli at 05.00 p.m.

Dr. Gopinath Ganapathy, Chairman, welcomed the members. Before going into the actual business of the meeting, the members had a valuable and useful dialogue session with Dr. S.V. Raghavan, covering many trends and developments in IT particularly about the knowledge network and 3-D printing.

The members congratulated Dr. M.A. Maluk Mohamed on being nominated as the Regional Student Coordinator of CSI for Region-VII.

**Members Present:** Dr. S.V. Raghavan, Dr. Gopinath Ganapathy, Dr. E. Kirubakaran, Dr. M.A. Maluk Mohamed, Mr. R. Selvaraj, Mr. D. Senthil Kumar, Mr. D. Varatharajalu, Dr. T. Abdul Razak, Mr. S. Ravimaran, Mr. A. Jahir Hussain, Mr. G.S. Raghunathan

### **Agenda:**

1. Arrangements for the AGM
2. Submission of Annual Accounts
3. Any other matter.

### **Resolutions:**

1. Resolved to entrust Mr. R. Selvaraj and Mr. D. Varatharajalu for fixing the photographer, bringing the AGM attendance register and arranging for mementoes to all the members participating in AGM.
2. Resolved to entrust Dr. Gopinath Ganapathy for making the arrangements for tea and snacks.
3. Resolved to request the treasurer to submit the accounts of the chapter, every month, during the MC meeting.
4. Resolved to entrust the Nomination Committee Chairman to nominate the new office bearers for the year 2013-2014.
5. Resolved to induct more life members into CSI.
6. Resolved to conduct certificate courses on current technologies in IT.



# Minutes of Management Committee Meetings

## MINUTES OF THE MC MEETING HELD ON 15-11-2013

The Management Committee meeting was held in the BUTP office, Khajamalai, Tiruchirappalli at 06.00 p.m.

**Members Present:** Dr. Gopinath Ganapathy, Dr. E. Kirubakaran, Dr. T. Abdul Razak, Mr. N. Rajasekaran, Mr. D. Varatharajalu, Mr. S. Lakshmanan, Mr. D. Senthil Kumar

### **Agenda:**

1. Attending CSI Annual Convention 2013 at Vishakapatnam
2. Submission of Annual Accounts
3. Any other matter.

### **Actions:**

1. Nominations for the year 2014-2015 were submitted by the Nomination Committee Chairman, Dr. E. Kirubakaran.

### **Resolutions:**

1. Resolved to sponsor any four MC members as delegates for attending the CSI Annual Convention. The sponsorship includes registration fees, economy class return airfare (if the distance exceeds 500 Kms) on production of actual tickets, and accommodation.
2. Resolved to submit the accounts, every quarter, for internal audit.
3. Resolved to conduct MC meeting on 2<sup>nd</sup> Wednesday of every month.
4. Resolved not to give the CSI Tiruchirappalli Best IT Teacher Award this year as the entries received do not satisfy the eligibility criteria specified for the award

# Annual General Meeting

## MINUTES OF THE ANNUAL GENERAL BODY MEETING HELD ON 23-09-2013

The Annual General Body Meeting was held on 23<sup>rd</sup> September 2013, in the BUTP Auditorium, BUTP, Khajamalai, Tiruchirappalli at 06.00 p.m. Many voting members attended the meeting and actively took part in the deliberations.

### **Agenda:**

1. Welcome Address
2. Presentation of the Annual Report for the year 2012-2013
3. Presentation of Annual Accounts for the year 2012-2013
4. Approval and Adoption of the Annual Report and the Annual Accounts
5. Induction of new office bearers for the year 2013-2014
6. Vote of thanks
7. National Anthem

### **Minutes:**

The business session of the Annual General Body Meeting began with the invocation by our past secretary, Mr. R. Selvaraj. Dr. Gopinath Ganapathy, Chairman welcomed the gathering. Our Secretary, Dr. T. Abdul Razak presented the annual report for the year 2012-2013 followed by the presentation of the annual accounts by the Vice Chairman, Mr. G.S. Rangunathan. The general body approved and adopted the annual report and the annual accounts.

The new office bearers for the year 2013-2014 were inducted by the nomination committee member, Mr. N. Sekar.

## Voice of Love

**Success is failure delayed. Failure is success delayed. Neither is failure final, nor is success permanent.  
Just don't quit. It's just a game. Play it to the end.**



The new team of Management Committee Members with a few other members on the day of Annual General Meeting held on 23<sup>rd</sup> September 2013 in the BUTP Auditorium, Bharathidasan University Technology Park (BUTP), Khajamalai, Tiruchirappalli

## Management Committee : 2013-2014

| Designation                          | Name & Membership No.                         | Address  | Contact Details                        |
|--------------------------------------|---|--|--|
| Chairman                             | Dr. Gopinath Ganapathy<br>18596 (Life Member) | Director, Bharathidasan University<br>Technology, Khajamalai, Tiruchirappalli  | 9842407008<br>gganapathy@gmail.com     |
| Vice Chairman                        | Sri. G. S. Raghunathan<br>N1064206            | Additional General Manager,<br>Information Centre, BHEL, Tiruchirappalli       | 9442631198<br>gsr@bheltry.co.in        |
| Secretary                            | Dr. T. Abdul Razak<br>01156413 (Life Member)  | Associate Prof. of Comp. Science,<br>Jamal Mohamed College, Tiruchirappalli    | 9443110965<br>abdul1964@yahoo.com      |
| Treasurer                            | Sri. N. Rajasekaran<br>106179 (Life Member)   | Manager, W.R.I., BHEL, Tiruchirappalli   | 9442503065<br>nrajas@bheltry.co.in     |
| Member<br>Division I                 | Sri. D. Senthilkumar<br>175415                | Dy. Manager, ITS, BHEL, Tiruchirappalli  | 9443143248<br>senthil@bheltry.co.in    |
| Member<br>Division II                | Sri. S. Lakshmanan<br>1149945                 | Sr. Engineer, Informatics Centre,<br>BHEL., Tiruchirappalli                    | 9442113936<br>laks@bheltry.co.in       |
| Member<br>Division III               | No Nomination                                 | ---  | ---                                    |
| Member<br>Division IV                | Sri. L. Jayaprakash<br>18496 (Life Member)    | Manager, E.R.P., BHEL, Tiruchirappalli   | ljp@bheltry@co.in                      |
| Member<br>Division V                 | Dr. S. Nickolas<br>170956                     | Head, Department of Computer<br>Applications, NIT, Tiruchirappalli             | 9443561989<br>nickolas@nitt.edu        |
| Member<br>Division VI                | Sri. S. Meenakshisundaram<br>N1124255         | Head., Department of C.S.E.,<br>MAM College of Engg., Tiruchirappalli          | 9486602842<br>1965sms@gmail.com        |
| Member<br>Division VII               | Sri. S. Venkatasubramanian<br>N1049627        | Associate Professor of C.S.E.,<br>Saranathan College of Engg., Tiruchirappalli | 9443144356<br>vsgomes@rediffmail.com   |
| Member<br>Division VIII              | Sri. A. Jahir Hussain<br>N0157513             | Associate Professor of CSE,<br>MAM College of Engg., Tiruchirappalli           | 9842004510<br>ajhussain@rediffmail.com |
| Chairman/<br>Nomination<br>committee | Dr. E. Kirubakaran<br>14167 (Life Member)     | AGM, SSTP(Systems), BHEL,<br>Tiruchirappalli                                   | 9442631150<br>ekiru@bheltry.co.in      |
| Member /<br>Nomination<br>committee  | Sri. N. Sekar<br>09426 (Life Member)          | Sr. Manager, Commercial/FB,<br>BHEL, Tiruchirappalli                           | 9442502616<br>sekarn@bheltry.co.in     |
| Member /<br>Nomination<br>committee  | Sri. D. Varatharajalu<br>917263 (Life Member) | Manager, Informatics Centre,<br>BHEL, Tiruchirappalli                          | 9442502942<br>rajalu@bheltry.co.in     |