Medi-Caps University

1st IEEE

SYMPOSIUM

Colossal Data Analysis and Networking

SOUVENIR

IEEE   acm   COMPUTER SOCIETY OF INDIA

Organized by

Departments of Computer Science, Information Technology and Computer Applications

Shri R.C. Mittal
Chairman

Shri Gopal Agrawal
Vice Chairman

Dr. Shamsher Singh
Chief Executive Director

Departments of Computer Science / Information Technology

ACM Members

Medi-Caps University

1ST IEEE SYMPOSIUM on

Colossal Data Analysis and Networking

MARCH 18 – 19, 2016

Souvenir

Editors

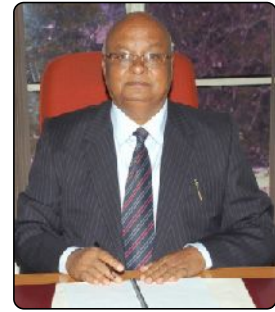**DR. SHAMSHER SINGH**
PROF. ANIL SINGH
DR. NITIKA V. DOOHAN

ORGANIZED BY

DEPARTMENTS OF COMPUTER SCIENCE, INFORMATION TECHNOLOGY AND COMPUTER APPLICATIONS

Contents

Message From The Chairman

Shri R.C. Mittal
Chairman
Medi-Caps University, Indore

It gives me immense pleasure to welcome all the delegates of the Symposium on Colossal Data Analysis and Networking organized by Medi-Caps University Indore. I am sure that this symposium will provide an appropriate platform to explore, exchange and present the latest advancements in these related areas.

I wish all the delegates will definitely enjoy the exotic weather and culture of Malwa and will make their minds to visit Indore and Medi-Caps campus again and again.

Shri R.C. Mittal
Chairman
Medi-Caps University, Indore

Message From Vice Chairman

Shri Gopal Agrawal
Vice Chairman
Medi-Caps University, Indore

Medi-Caps University has been organizing important events in the areas of management, Foreign Trade and Engineering to provide platform to share research and knowledge amongst the research scholars, scientists, technocrats and experts. The IEEE Symposium on Colossal Data Analysis and Networking is another bead in the series of such events. I greet all the delegates to this Symposium and wish that it will prove to be useful for them.

I hope that the delegates would carry the memories of their presence at Medi-Caps University, Indore.

Shri Gopal Agrawal
Vice Chairman
Medi-Caps University, Indore

Message From Chief Executive Director

Dr. Shamsher Singh
Chief Executive Director
Medi-Caps University, Indore

Technologies are changing and advancing with every blink of eye and to keep the edge sharp, these advancements must be deliberated amongst all the researchers, developers and the users for the benefit of the society and the nation at large. The use of these technologies in our day to day life is of great significance. During past few decades technological development in communication and computing has entirely changed the way we communicate, the way we transact our business and even the way we teach.

I hope that this IEEE symposium on Colossal Data Analysis and Networking will provide a great opportunity for exchange of knowledge and experience amongst academicians, research scholars and entrepreneurs.

On behalf of Medi-Caps University, I offer heartiest welcome greetings and felicitations to all the participants, researchers and speakers.

Dr. Shamsher Singh
Chief Executive Director
Medi-Caps University, Indore
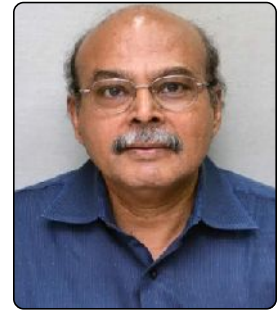
Message From Vice Chancellor

Dr. Sunil K. Somani
Vice Chancellor
Medi-Caps University, Indore

Colossal Data Analysis and Networking has emerged as de-facto computing model, enabling software infrastructure and information to be used as services over the network in and on- demand manner.

This symposium will be a better platform for the researchers, academicians and industry people to discuss and update these new changes happening in this world. This symposium would provide the researchers a unique platform to hear from the peers in the field of applied research while presenting their own innovative ideas as beginners. The aim is to provide substantial input into the quality research and technology also bringing out scholars across the country and should be an excellent chance for networking amongst institute and industries.

Dr. Sunil K. Somani
Vice Chancellor
Medi-Caps University, Indore

Message From IEEE Bombay Section

Anthony Lobo
Chair IEEE Bombay Section
Secretary IEEE India Council

I am delighted to send greetings and a word of commendation to Prof Nitika Vats Doohan and the team of CDAN 16 as also to the management of Medi-Caps Group of Institutions, Indore on the occasion of the first IEEE Symposium on Colossal Data Analysis and Networking, 18/19 March, 2016.

Indore is the commercial hub of Madhya Pradesh and home to long standing and prestigious educational institutions.

This is a great day for the MP Subsection of IEEE Bombay Section. The Subsection has had a tradition of hosting technical events of repute and we are certain this activity will increase and add value for members and students and enhance IEEE's presence in central India. IEEE Bombay Section, which is celebrating 40 years this year, is among the top ten sections in the world in terms of membership. We value the technical activities of our student branches and our colleagues from Academia and Industry and their contribution to the IT community in Madhya Pradesh.

The theme of the Symposium is of utmost relevance and we appreciate the willing participation of all the expert speakers.

With every good wish

Anthony Lobo
Chair IEEE Bombay Section
Secretary IEEE India Council

Message From ACM President India

Dr. Srinivas Padmanabhuni
ACM President
V.P. Infosys Lab

Machine Learning helps you in the extraction of patterns present in the data which are non-trivial. In a similar spirit Big Data is everywhere, be it web space, social media, supermarket transactions, bank transactions , sensor data etc. Big Data is data which is so huge that it is unable to process through traditional statistical methods. Applications of Machine Learning starting from predicting weather, diagnosing malignant diseases based on the history of patient's records to recently developed Google's self driving car.

In almost all modern business applications there is a need for understanding Big Data, and combine it with complex machine learning and analytic techniques to enable creation of powerful insights for businesses. The sympoisum is at given the complexity of dealing with volume, variety and velocity of data being generated today in context of big data. A well known fact we need to grapple is the complex unstructured data which needs to be dealt with today which cannot be dealt with traditional databases and data warehousing techniques. Likewise several technical challenges thereof to be investigated in context of big data   include security, semantics, algorithms, storage alongside complex machine learning algorithms. This symposium is an attempt to provide an all round perspective to these dimensions.

Dr. Srinivas Padmanabhuni
ACM President
V.P. Infosys Lab

Message From CSI Division IV Chairman

Dr. Durgesh Kumar Mishra
Chairman
Computer Society of India,
Division IV

It gives me immense pleasure to know that Medi-Caps University, Indore is organizing Symposium "Colossal Data Analysis and Networking (CDAN' 16)" from 18-19 March 2016 at Indore in association with IEEE MP Subsection, Association of Computer Machinery(ACM), and Computer Society of India (CSI) Division IV.

Data Analytics and Networking are required in the field of Information and Communication Technology for the development of the country in the digital era.

The symposium includes Invited talks by eminent International and National Speakers in the field of analytics and networking that will additional benefit to the researcher. Innovation in these areas is essential for the development of India and professional societies like IEEE, ACM and CSI are playing an important role.

Hearty congratulations to Prof Nitika Doohan and team for conceptualizing the event and working out the modalities to organize the great event with support of academicians, Industry Professionals and Government officials.

I wish the International Conference a grand success.

Dr. Durgesh Kumar Mishra
Chairman
Computer Society of India,
Division IV

Medi-Caps University

Medi-Caps has been a brand name in the arena of technical education. Since its inception in July 2000, Medi-Caps has consistently aimed at creating an ideal ambiance for budding technocrats and managers; and helping them to grow like true professionals. With its highly qualified faculty there seems an optimal blend of academic brilliance and industry exposure, supplemented by highly specialized visiting faculty and industry experts, senior professionals from various segments of different industries and business houses. It was time now to spread wings and move out for more exposure and widening of the periphery. Hence the foundation of Medi-Caps University has been laid down. With a strong foundation of the Group since 15 years, Medi-Caps University wishes to maintain the same objective of imparting quality education and producing sound professionals for the benefit of the society at large.

Departments of CS, IT & CA

The Department of Computer Science and Engineering was started in the year 2000 and has set of well qualified and experienced faculty with state of the art laboratories to meet the quality in education required to meet the challenges in the 21st century.   The department has around 600 students and about 28 teaching staff and 5 non teaching staff. The total intake of students is 120 each in every year. The first batch passed out in the year 2004. The students are not only trained in academic excellence but also encouraged to acquire industry exposure through in-house training sessions in various technologies.

Information Technology (IT) department was started with an intake of 60 students in the year 2000. The current intake of students also is 60 in this department. The department offers B.E. and M.E. degree in Information Technology.

Master of Computer Application course was started in the year 2000. MCA department runs a post graduate program, Master of Computer Applications (MCA), affiliated to RGPV, Bhopal and approved by All India Council for Technical Education (AICTE), Delhi. The department strictly adheres to all processes as regulated by the University and AICTE. The department is ranked amongst the top colleges in the state for MCA course.

ACM

ACM is the world's largest professional association devoted to computing, striving to advance "computing as a science and profession." ACM India embodies much of those goals and strives to take up activities in the research and development sphere of computing in the academia and the industry. ACM India has been led in its brief but impressive tenure by individuals who have made their marks in advancing computing as a science and profession. The task of the Nominations Committee (NC) of ACM India was to present the members with a panel of candidates who would best advance the goals of ACM India. The NC looked for candidates with the vision, track record, energy, and enthusiasm required to serve the computing community for the next 2 years and thereafter.

CSI

The seed for the Computer Society of India (CSI) was first shown in the year 1965 with a handful of IT enthusiasts who were a computer user group and felt the need to organize their activities. They also wanted to share their knowledge and exchange ideas on what they felt was a fast emerging sector. Today the CSI takes pride in being the largest and most professionally managed association of and for IT professionals in India. The purposes of the Society are scientific and educational directed towards the advancement of the theory and practice of computer science and IT. The organisation has grown to an enviable size of 100,000 strong members consisting of professionals with varied backgrounds including Software developers, Scientists, Academicians, Project Managers, CIO's , CTO's & IT vendors to just name a few. It has spread its branches all over the country. Currently having more than 500 student branches and rooted firmly at 73 different locations, CSI has plans of opening many more chapters & activity centers in smaller towns and cities of the country. The idea is to spread the knowledge, and provide opportunities to as many interested as possible.

IEEE Bombay Section

In 1976, the Bombay Section was formed with a Territory of Maharashtra, Goa, Gujarat, Madhya Pradesh , Chhatisgarh and Diu & Daman UT, closely followed by Banglore & Delhi.
There are more than 430,000 IEEE members in more than 160 countries. The IEEE publishes a third of the world's technical literature in electrical engineering, computer science and electronics and is a leading developer of international standards that underpin many of today's telecommunications, information technology and power generation products and services.

CDAN'16

CDAN'16 (Colossal Data Analysis and Networking) will held in March 18-19, 2016 in Indore, Madhya Pradesh, India. This Symposium will be a better platform for the researchers, academicians and industry people to discuss and update the new changes happening in the world. The symposium is on Colossal Data Analysis and Networking organized by Departments of Computer Science, Information Technology and Computer Applications Medi-Caps University. The version of this symposium will host oral and paper/poster session showcasing original contributions from researchers/professionals.

Programme Schedule

S.No.	Time	Venue	Session Name/ Event		Speaker / Person
			DAY-1: March 18, 2016		
1	9:00-10:00	Mechanical Block	Registration		
2	10:00-11:35	Auditorium (small)	Inviting of Guests	10:00:10:01	
			Lightening the lamp by guests (Saraswati Vandana)	10:01:10:05	
			Floral Welcome (CED, VC, Chief-Guest, Keynote Speaker, CSI, IEEE)	10:05-10:10	
			Welcome speech	10:10-10:20	Dr. Shamsher Singh, CED
			ACM Chapter Inauguration	10:20-10:35	Dr. Srinivas Padmanabhuni, Infosys
			Speech of Chief-Guest		
			Address by CSI DIV-IV Chairman	10:35-10:40	Dr. D.K.Mishra
			Address by IEEE Bombay Section, Chairman	10:40-10:45	Dr. MPS Chawla
			Introduction of Symposium	10:45-10:50	Dr. S.K.Somani
			Address by Keynote Speaker	10:50-11:30	Dr. Sudeep Oberoi
			Vote of Thanks	11:30-11:35	Dr. Nitika Vats Doohan
3	11:35-12:00		High Tea		
4	12:00-13:45	Auditorium (small)	Session #1 : Cloud Architecture	12:00-13:00	Mayank Mishra, IMPETUS
				13:00-13:45	Paper Presntation
5	13:45-14:15		Lunch Break		
6	14:20-16:00	Auditorium (small)	Session #2 : Cloud Virtualization	14:20-15:20	Shripad J Nadgowda, IBM
				15:20-16:00	Paper Presntation
7	16:00-16:05		Tea Break		
8	16:05-17:45	Auditorium (small)	Session #3 : Big Data Foundations and Infrastructure	16:05-17:05	Mandar Kale, TCS
				17:05-17:45	Paper Presntation
9	18:00		Departure		
			DAY-2: March 19,2016		
1	9:00 –11:00	Auditorium (small)	Session #4 : Big Data Security and Privacy	9:00-10:00	Prashant Mishra, IMPETUS
				10:00-11:00	Paper Presntation
2	11:00-11:10		Tea Break		
3	11:10-13:10	Auditorium (small)	Session #5 : Big Data Searching and Mining	11:10-12:10	Dr. Srinivas Padmanabhuni, Infosys
				12:10-1:10	Paper Presntation
4	13:10-13:45		Lunch Break		
5	13:50-15:50	Auditorium (small)	Session #6 : Cloud Security and Privacy	13:50-14:50	Dr. Aarti Dixit, Pune University
				14:50-15:50	Paper Presntation
6	15:50-16:30		Valedictory		
7	16:30		High Tea and Photo Session		
8	17:00		Departure		