

Special Issue

Computing Vision



# SMART-2017

6th International Conference  
on System Modeling & Advancement in Research Trends

Technically Sponsored by



Organised by

College of Computing Sciences & Information Technology  
Teerthanker Mahaveer University, Moradabad



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## Principal's Message

I am very much delighted to convey my warm greetings to Dr. S. N. Singh (IEEE Elect Chair-2017), and Dr. Dilip Sharma (SM(IEEE, IEEE-CS, IEEE-IAS, IEEE-YP), SM ACM, SM CSI, Fellow IETE) along with Other IEEE authorities of U.P. Section, faculty, staff and the students of this prestigious Teerthanker Mahaveer College of Computing Sciences and Information Technology. We at CCSIT, impart futuristic technical education in the field of Computer Science & Engineering discipline. Education is a powerful tool for promoting and blossoming of natural talent. It enriches students to be value enhanced individuals. The scenario of computer education in India is now in a transformational phase as compared to earlier times. We are in a compelling era where global conditions require conventional practices which make one to change and adapt to suit the present requirements and also address futuristic needs. The Institution is committed to enhancing the quality of service delivery, providing practical cum industrial-oriented programs and ensuring a valuable campus environment for the faculty and students. With the support of Hon'ble Chancellor and Group Vice Chairman, and Vice Chancellor along with faculty and staff members, our students are excelling in their academic performances. The holistic and comprehensive education provided in the College will enlighten the students and enable them to become employment-ready. My best wishes to all CCSITians for organizing the IEEE- SMART-2K17. My special thanks to Dr. A K Saxena (HoD, CCSIT), Dr. Danish (Technical program Chair, SMART-2K17) Mrs. Inderjit Jheetay and Mrs. Shikha Gambhir for making this International Conference grand success.

Teerthanker Mahaveer University feels proud to host the Silver Jubilee Celebrations of IEEE U.P. Section and the jury has nominated various academic awards which were presented during the cultural function.

**Dr. Rakesh Kumar Dwivedi**  
Prof. & Principal



## Award for Outstanding Contribution to IEEE UP section was awarded to Dr. S.N. Singh by the Chancellor of TMU, Shri Suresh Jain

### Award Ceremony

Award for Outstanding Contribution was awarded to Dr. S.N. Singh by the Chancellor of TMU, Shri Suresh Jain. Group Vice Chairman, Mr. Manish Jain, honoured the Founder VC, Prof R K Mittal with Lifetime Achievement Award. Prof J Ram Kumar received the award of Outstanding Research and Innovation, whereas best Operational Excellence award was given to Dr. Satish Kumar Singh of IIT, Allahabad.

At the Award Ceremony of Smart-6 International Conference more than a dozen eminent personalities were awarded for their excellent work. Souvenirs and certificates were also presented to the guests. Director Finance TMU, Mr. S P Jain presented the award of Quality and Documentation to Dr. Dilip Kumar Sharma. Prof. J B Jain, Controller of Examination, presented the award of best Promotional Digital Learning Platform to Prof. Raghuraj Singh. Director TMIMT Prof. Vipin Jain presented the award of Excellence in Research Promotion to Dr. Kumar Vaibhav Srivastava and Outstanding Faculty Award for Students Quality to Dr. Asim Chandel. Dr. Vinay Reshiwal got the award for Best Brand Marketing, Dr. Seema Awasthi as the Woman Super Achiever, Dr. Mohammed Shapur Baulat for Endeavour Research Promotion Award. Dr. Danila Parygin got Outstanding Award for Education Activities and Dr. Prabhakar Tiwari received the Professional Activity Award.

Prof (Dr) R K Dwivedi warmly welcomed the Chancellor, Shri Suresh Jain with a bouquet. All other guests were also presented bouquets.



**Recipient of Lifetime Award - Prof. R. K. Mittal**



29 December, 2017



Award For Quality and Documentation Standards to Dr Dilip Kumar Sharma

IEEE UP SECTION  
29 December, 2017



Best Award For Promoting Digital Learning Platform to Prof. Raghuraj Singh



Award For Excellence In Research Promotion to Dr. Kumar Vaibhav Srivastava

ACADEMIC AWARDS



Outstanding Award for Education Activities to Dr. Danila Parygin



Outstanding Research Promotion Award to Prof. J . Ramkumar



Women Super Achiever Award to Dr. Seema Awasthi



Endeavour Research Promotion Award to Dr. Mohd Sapuan Salit

Award Name

Presented To

Outstanding Research Promotion Award	Prof. J . Ramkumar
Best Operational Excellence Award	Dr. Satish Kr. Singh
Award For Quality and Documentation Standards	Dr Dilip Kumar Sharma
Best Award For Promoting Digital Learning Platform	Prof. Raghuraj Singh
Award For Excellence In Research Promotion	Dr. Kumar Vaibhav Srivastava
Young Achiever Award	Shri. Manish Jain
Visionary Leader Award	Shri. Suresh Jain
Women Super Achiever Award	Dr. Seema Awasthi
Award for Training Excellence	Prof. R. K. Mudgal

Award Name

Presented To

Outstanding Faculty Award for Students Quality	Dr. Aseem Chandel
Award for Outstanding Contribution to IEEE UP Section	Prof. S. N. Singh
Award for Best Brand Marketing	Dr. Vinay Rishiwal
Endeavour Research Promotion Award	Dr. Mohd Sapuan Salit
Outstanding Award for Professional Activity	Prof.(Dr.) Rakesh Kr. Dwivedi
Outstanding Award for Education Activities	Dr. Danila Parygin
Outstanding Award for Research And Innovation	Prof. Parmanad Astya
Lifetime Achievement Award	Prof. R. K. Mittal



A hearty welcome to our guests



## Research - A Multi Disciplinary Field

Asia Pacific Conference  
Chairman Prof. Sri Nivas, BoS

The Chief Guest, VC of Madan Mohan Malviya University Gorakhpur, Prof. S N Singh in his speech said, ' Research is a multi disciplinary field and it gives us an opportunity to connect with people of various fields. It's an era of smart technology.

Day to day modern technology equipment is increasing. One can predict the weather conditions, much ahead of time this is possible through artificial intelligence.

The conference is a platform for uniting people of different regions.

Every letter of the word  
SMART is meaningful, as

<b>S</b>	stands for Sincere
<b>M</b>	for Methodology
<b>A</b>	for Adaptive
<b>R</b>	for Responsible
<b>T</b>	for Technocrats.





## How to Become Useful in Material Sense

Professor of Mechanical and Manufacturing Department of Son University, Malaysia. Dr. Mo. Sapun B. Salit believes that in research, care should be taken on how its impact will be on the society, specially the rural people. Dr. Mo. Sapun is studying how the use of Physical Science is beneficial for automobile companies. In addition, the fields of Informatics Technology and Computer Science can prove useful in the field of Material Science too. CAD - Computer Aided Design system is affected by Material Science. In the context of TMU students going to their university he said, 'We used to run short term courses and summer training programs for UG students. It would be very good that students of Son University and students of TMU exchange knowledge.' Speaking about the mixture and composition material of Fiber and Polymer, Prof. B. Sapum said, 'It can be used for the furniture material. It is multi-functional and eco-friendly. This will also help in environmental protection.'

Pro from Yonsei Institute of Convergence, Korea Madhusudan Singh shared his Research Block Chain Enabled Secure Smart Vehicle Communication with future IT experts. He said, 'The process of construction of automated trains has already started. The driver less four-wheeled vehicle, which will soon be known as Smart Vehicle, will be among us. It uses new technology, through automatic messages, we can learn the location of our four-wheeler vehicle on our phone. There is no harm in the security perspective. In this, the use of Vehicle Communication Technology has been used. We can also communicate with nearby trains. We can easily get the information of petrol pumps from the attached device. However, cyber security is still a big challenge. The high mobility and traffic prediction of systems made by DSRC and web technologies are among its features.'

## A smart vehicle smart concept



**Standing in unison for the NATIONAL ANTHEM**



## SMART CITY - A project close to my heart

Dr. Danila Parygin, from Russia, in his speech said "Smart City is a blend of lifestyle and technology. Technology is not a monster; it is a language. The Technology brings hope, it is an insight to life. Technology is not a hawk We all must assimilate technology. Smart City is a mixture of lifestyle and technology.' He lauded the glory of CCSIT, TMU and IEEE. He is nowadays researching Smart City Project.

Dr. Danila Parygin believes that if people are smart then the cities will be smart and if the city is smart then people will be smart too. They are complementary to each other. He insisted on mainstream technology and said, 'This is the weapon of our lives. This makes our life easier. When technology enters into everyday life, it makes our life more luminous.'

Dr. Danila Parygin said, 'Both time and technology are with us. There is no better solution than smart city to make people's life organized.'



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# Shrimad Bhagavad Gita - A perfect Souvenir

Principal of CCSIT Prof. R.K. Dwivedi gifted Shrimad Bhagwad Gita to the guests Prof. S N Singh, Prof. J. Ram Kumar, Prof. R K Mittal, Prof. Raghuraj Singh, Dr. V.C. Rathore. Conference Proceedings were also released on this occasion. Prof. R K Mugdal , Vice Chancellor, TMU, Prof P D Kaushik, Pro Vice Chancellor, Prof. K K Pande, Dean Academics, Dr. Ashendra Saxena and Dr. Danish Ather were also present on this occasion





# Shrimad Bhagwat Gita- Our Guide to Dharma

Professor, Ravindra Singh, Department of CS, at Rohilkhand University, described the relationship between God, Bhagvad Gita and human life as interconnected. Regarding the cleanliness drive of the Ganga, he said Ganga is the life-cardinal. It must be kept clean.

## Injector can be used extensively

Guest of Honour, Dr. B S Rathore, while presenting his research on the use of syringe in communicable diseases like HIV, AIDS and Hepatitis B, said that Hepatitis B spreads from the syringe thrown after use in hospitals. People carry the syringe from the dustbins. Many times they become victims of serious illness due to accidentally pricking of the needle. Syringe is sent in the name of recycling. Many times they come back without being recycled, for which the common man has to suffer. Explaining the solution to the problem, he said our team has prepared a new and unsurpassed model-injector of the syringe. In this, retractive syringe and drug corrugation are used. Needle is engaged in this drug cortex. After using only the drug cartridge part is affected, which is thrown after using it. The injector can be used repeatedly.

## Current era is of Smart Technology



TMU Founder VC and GGSIPU, New Delhi Prof. RK Mittal said, 'ICT-Information Communication Tools make human life better. For example, e-business, e-governance, e-commerce etc. have changed the economic situation of the country radically. He

advocated collaboration and said that service sector has a share of 57 percent in GDP while abroad it is 80 percentage. Sources should be used for sustainable development so that we can have a bright future for future generations. For this we have to pay special attention to three points- the reliability of socialism, environment and information.'

## Universities - A storehouse of knowledge



Pro. R.K. Mudgal (Vice Chancellor, TMU) in his address said, 'Universities are made to recognize knowledge. They help in creating new world as well as creating new knowledge. There is a lot of difference between theory and practice. Everything in theory is possible but occasionally we have to face heavy losses in

practical. The purpose of this conference is to make people rich in ideas and knowledge. It gives the basics of learning and earning- The more you learn- the more you earn.'

## Research is formalized curiosity



Prof. P. D. Kaushik (Pro. Vice Chancellor, TMU) said, 'At present, technology is developing very rapidly. We can find solutions to future problems before hand. There is no need to wait for the time to get rid of the problem be for food security, traffic, research. We should generate new ideas and reach

new dimensions, and also contribute to the country's economy. We should be curious like children and ask questions. This creates new ideas. We have to be passionate about achieving the success of any work. Never have a shortcut in life and life never gives us a second chance. We should always put a positive approach to life and help others, these things make us a good leader.'







## Computer Science connects us with our Culture

### A Memorable Evening

College of Computing Sciences and Information Technology - CCSIT made the evening of IEEE's Silver Jubilee memorable. The creative night of the Smart-6 International Conference started with Mangalacharan .... Jainam Jayantu Vyasham, by Ayushi and group. Through this presentation, The atmosphere became devotional. The grand picture of Lord Mahavir on the stage made the stage spectacular Sakshi & Group performed Mahishasur slaughter as a dance performance Apoorva and Group showed women's position through dance on 'Search for Hope' theme.

Shruti, Monakshi and Chetan enthralled the audience with their performance. In the end students spell sound and energized everyone with enthusiasm through their colorful presentations.

Chairperson of I-EEE UP Section from IIT Kanpur, Prof. J. Ram Kumar said that The I-EEE is a platform for expressing our thoughts. The students are very lucky that they have got an opportunity to study in TMU, because here they can work in engineering as well as in other areas. Every person has a different standard signature, such as Thumb Impressions, Retina Scanning Technology etc. It is a privilege for engineering students to have so many courses running together in TMU campus. Computing Science connects not only the technology but also the culture.

### Objectives should Be Well-Defined



Prof. Raghuraj Singh of HBTU, Kanpur, defining the Research in the conference, said, 'In research the use of mathematical models is used to solve the social problems.

It is of multi disciplinary nature. Objectives should be well-defined in research. If the presentations of researchers are well-defined, then 50% of the work done by the retailers is complete. While doing research, Research Ethics should be kept in mind.'



**अतिथि देवो भवः**

**A warm welcome**



**Lamp Lighting Ceremony**





# Bouquet & Memento Presentation



# Eminent Personalities





## Relaxation and Recreation



## The Promissory Oath





**Cultural Night - A Gala Affair**





## An Amicable Interaction with guests



## Hospitality at its best





# Memorable Moments





# Upcoming ICAC International Conference



## 3<sup>rd</sup> International Conference on Advanced Computing

College of Computing Sciences & Information Technology  
Teerthanker Mahaveer University, Moradabad

# ICAC

International Conference  
THE **FUTURE**  
IS **NOW**

5<sup>th</sup> May 2018



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International Journal of Research Trends in  
Computer Science & Information Technology (IJRTCSIT)  
<http://www.ijrtsit.org>

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CISCO

### MAJOR ATTRACTIONS:

- ★ Singing & Dancing Competition
- ★ Band Performance
- ★ Skit
- ★ Stand Up Comedy

## IGNITE-4

4 MAY, 2018

9:30 AM ONWARDS

VENUE: UNIVERSITY AUDITORIUM



# Placement News

## आईटी के 81 विद्यार्थियों को मिली सफलता



मुरादाबाद। तीर्थकर महावीर यूनिवर्सिटी के कालेज ऑफ कंप्यूटिंग साइंस एंड इंफोरमेशन टेकनोलॉजी-सीसीएसआईटी के कुल 81 विद्यार्थियों को सफलता मिली है। कैंपस प्लेसमेंट के लिए आई कंपनी विप्रो, टाटा, सोनी इंडिया, पाई इंफोकाम, कांसेट्रिक्स आदि कंपनियों में विद्यार्थियों को जॉब मिल गई। सबसे पहले विद्यार्थियों की लिखित परीक्षा हुई। इसके बाद साक्षात्कार हुए। सीसीएसआईटी के प्राचार्य प्रो. आर के द्विवेदी ने चयनित विद्यार्थियों को बधाई देते हुए उनके उज्ज्वल भविष्य की कामना की। इस मौके पर विक्रम रैना, डा. ए के सक्सेना, डा. राजीव कुमार आदि रहे। ब्यूरो

## टीएमयू के 81 स्टूडेंट्स को मिली मंजिल



मुरादाबाद। तीर्थकर महावीर यूनिवर्सिटी के कालेज ऑफ कंप्यूटिंग साइंस एंड इंफोरमेशन टेकनोलॉजी-सीसीएसआईटी के कुल 81 स्टूडेंट्स को सफलता मिली है। कैंपस प्लेसमेंट के लिए आई कंपनी विप्रो, टाटा, सोनी इंडिया, पाई इंफोकाम, कांसेट्रिक्स आदि कंपनियों में विद्यार्थियों को जॉब मिल गई। सबसे पहले विद्यार्थियों की लिखित परीक्षा हुई। इसके बाद साक्षात्कार हुए। सीसीएसआईटी के प्राचार्य प्रो. आर के द्विवेदी ने चयनित विद्यार्थियों को बधाई देते हुए उनके उज्ज्वल भविष्य की कामना की। इस मौके पर विक्रम रैना, डा. ए के सक्सेना, डा. राजीव कुमार आदि रहे। ब्यूरो

## Our Training and Recruitment Partners



Agilent Technologies



# Program Details & Admission Criteria

# 2018-19

## College of Computing Sciences & IT

BCA	3 yrs.	25,200/-	4,000/- (Per Sem.)	10+2 with Mathematics at 10th level	Merit based on percentage of marks secured in the qualifying examination	9568516000 9568517000 7351418000	
BCA for Visually challenged							
BCA Mobile Applications & Web Technologies (in collaboration with i-Nurture)	3 yrs.	42,300/-					
B.Sc. (Hons.) Computer Science	3 yrs.	28,800/-	4,500/- (Per Sem.)	10+2 with Physics, Maths & Chemistry (or Computer Sci.) with minimum 60% marks in aggregate			
MCA (Master of Computer Applications)	3 yrs.	38,700/-		Graduation in any stream with mathematics at 10+2 level or BCA			
MCA (2nd Year Lateral Entry)	2 yrs.	43,200/-		BCA or B.Sc. IT/CS			
B.Sc. (Animation)	3 yrs.	32,400/-	4,000/- (Per Sem.)	10+2 in any stream			
B.Tech. (Computer Science & Engineering)	4 yrs.	54,900/-	4,500/- (Per Sem.)	10+2 with Physics, Maths & Chemistry (or Computer Science) with minimum 50% marks and pass marks in English			JEE(Main)/UP-SEESc or e/ Merit based on percentage of marks secured in the qualifying examination
B.Tech. (2nd Year Lateral Entry)	3 yrs.	54,900/-		3 yrs. Diploma in Engineering or B.Sc. with Mathematics or BCA with PCM at 10+2 in case of B.Tech.-CSE only			Merit based on percentage of marks secured in the qualifying examination
B. Tech. –CSE (In Collaboration with i-Nurture) • Cloud Technology & Information Security (CTIS) • Internet of Things (IoT)	4 yrs.	63,000/-		10+2 with Physics, Maths & Chemistry (or Computer Science) with minimum 50% marks and pass marks in English			JEE(Main)/UP-SEE Score/ Merit based on percentage of marks secured in the qualifying examination
B.Tech (CSE) (2nd Year Lateral Entry) In collaboration with i-Nurture)	3 yrs.	63,000/-	4,500/- (Per Sem.)	3 yrs. Diploma in Engineering or B.Sc. with Mathematics or BCA with PCM at 10+2 in case of B.Tech.-CSE only			
B. Tech. –CSE (In Collaboration with IBM) • Cloud & Mobile Based Applications • Big Data & Analytics	4 yrs.	63,000/-		10+2 with Physics, Maths & Chemistry (or Computer Science) with minimum 50% marks and pass marks in English			
M.Tech (Computer Science & Engineering)	2 yrs.	50,400/-	5,000/- (Per Sem.)	B.Tech. in relevant field/MCA	GATE Score/Merit based on percentage of marks secured in the qualifying examination		

## SCHOLARSHIPS

At Teerthanker Mahaveer University, we believe that the meritorious students should be rewarded and should not be left out of the main stream in their quest for higher education. Scholarships at the university are provided to the outstanding students. Thus, to recognize talent of meritorious and needy students, the university has provision of scholarships, medals, awards and certificates. Regulations governing these scholarships/awards can be amended from time to time.

Sl. No.	Nature of Scholarship	Program	Eligibility	Scholarship % (Scholarship amount equivalent to first year tuition fee)	Remarks	SCHOLARSHIPS FOR JAIN STUDENTS
1	Entry level Scholarship	For all UG and PG programs except D.El.Ed. (BTC), Collaborative, Dental, Medical & Allied Programs	Marks in qualifying exam Between 60% to 69.9% Between 70% to 79.9% Between 80% to 89.9% 90% & above	10% 15% 25% 50%	Scholarships are available in the admission year only. These rules are not applicable on programs of one year or less than one year duration	All Jain students will be given 50% exemption in tuition fee only for entire duration of the program they join except D.El.Ed. (BTC), collaborative, Dental, Medical and Allied programs.
2	Rank holders of competitive exams	For admission to B-Tech.	All India Rank in JEE (Main) Upto 15000 15001-25000 25001-50000 Rank in UP-SEE Upto 2000 2001-4000	90% 50% 20% 90% 50% 20%		
3	Pass out students of: • Teerthanker Mahaveer University • Madan Swarup Inter College, Hariana (U.P.) • Teerthanker Mahaveer University Staff Wards Scholarship	For all UG and PG programs except D.El.Ed. (BTC), Collaborative, Dental, Medical & Allied Programs	Marks in qualifying exam Between 60% to 69.9% Between 70% to 79.9% Between 80% to 89.9% 90% & above	15% 20% 30% 50%		



**Delhi Office :** 1004-1005-1006, 10th Floor, Mercantile House, 15 Kasturba Gandhi Marg, New Delhi - 110001 Mobile : 09639155333  
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## 100% Placement Assistance

Bird's Eye View of the University Campus



# TEERTHANKER MAHAVEER UNIVERSITY

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