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**INTERNATIONAL CONFERENCE ON ADVANCES IN INFORMATION TECHNOLOGY AND MANAGEMENT**

# *Leveraging Information Technology for Inter-Sectoral Research*

(Healthcare - Industry - Basic Sciences)

**17 - 19 February 2017**



*Thakur Educational Trust's (Regd.)*

## **Thakur Institute of Management Studies, Career Development & Research**

(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)

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## **Chief Patron's Message for ICAIM-2017**

During the last few years, TIMSCDR, under the aegis of Thakur Education Group (TEG) has been excelling in its journey into the field of education and research of international standard. This year, TIMSCDR's 'International Conference on Advances in Information Technology and Management - Leveraging Information Technology for Inter-Sectoral Research' is an effort to probe incentives and opportunities to access various sources of knowledge required to construct a sustainable competitive advantage worldwide through continual innovation.

TIMSCDR, in its journey towards excellence has taken the initiative in organizing yet another International Conference about application of IT in the areas of Industrial, Health and Basic Sciences Research. The continuing technological advancements in various fields of IT have revolutionized the research work that is going on in the above mentioned fields. The Inter-Sectoral Research will surely help achieve innovative and sustainable solutions in the respective fields and streamline processes across all verticals of any industry.

I take this opportunity to congratulate the organizing committee for their dedication and hard work for successfully arranging this event. I am also very grateful to all the delegates and research scholars for sharing their research work and making this conference a huge success.

**V. K. Singh**

Chairman



## **CEO's Message for ICAIM-2017**

I feel privileged to welcome you all for the upcoming International Conference on Advances in Information Technology and Management titled "**Leveraging Information Technology for Inter-Sectoral Research**" organized by TIMSCDR, under the aegis of Thakur Education Group (TEG).

Information Technology is now pervasive and the research and development that is taking place in IT and its allied fields has brought about a radical change in other sectors like Industrial, Health and Basic Sciences. Application of IT in the above fields not only increases efficiency but also leads to more infallible outcomes.

This conference, a distinctive endeavor of TIMSCDR, will provide a platform for the exchange of ideas and findings of all intellectuals from academia, industry and research institutions in the basic sciences, medical, pharmaceutical sciences and IT. I am sure this exchange of ideas among eminent and erudite personalities from relevant fields will open many more avenues of future technological enhancements.

The zeal and enthusiasm with which the organizing committee has come forward is commendable. I extend my best wishes to the faculty, delegates and the organizing committee for excellence in their endeavors.

**Karan V. Singh**

CEO



## Director's Message for ICAIM-2017

*Change is the law of life. And those who look only to the past or present are certain to miss the future. John F. Kennedy*

Research leads to innovation and constructive innovation is all about change for a better lifestyle.

ICAIM 2017 which is one of its kind interdisciplinary event in association with AMC provides a platform to discuss and deliberate on the important topic of research and the research culture in higher education institutions. The conference is an opportunity to study the type and level of research happening in the sectors of basic sciences, medicine and industry. It laid stress on the role and the extent of use of information technology when performing research.

During the making of ICAIM 2017 we had the opportunity of interacting with young research scholars from the sectors of industry, basic sciences and medicine. These interactions helped understand the level of research and the extent of use of information technology in research.

We are thankful to the principles and deans of higher education institutions of basic sciences and medicine for providing us the opportunity of interacting with their young research scholars and understanding the research culture in their institutions.

I welcome the delegates of ICAIM 2017 to be a part of the highly intellectual and outcome oriented panel discussions and also to take home research oriented concepts and ideas from the expert talks delivered by stalwarts from industry, academics and research organisations.

**Dr. Vinita Gaikwad**

Director

# About AMC

**The Association of Medical Consultants (AMC)** was established in 1972 by a small group of energetic active and concerned medical consultants from distant suburbs who often assembled and animatedly discussed their common problems. Over the years, the immense need rose for an organisation of this nature and the Association grew rapidly. It is now one of the fastest growing Associations of Specialist Doctors in Mumbai and boasts of a membership strength of more than 9000 Medical Consultants. AMC represents Consultants practicing at corporate and non corporate Tertiary care referral Hospitals (both Government and Private) and individual Consultants practicing through their own consulting rooms, Clinics & Nursing Homes spread across Greater Mumbai, Navi Mumbai and Thane districts. It is recognized as a frontline Medical Organization and is an important opinion making body which addresses vital public health and professional issues facing the medical profession in general and medical consultants in particular. AMC has effectively brought together consultants of various disciplines on one platform and aims to highlight and offer solutions to all the important day to day problems faced by consultants.



**Dr. Veena Pandit**  
President  
Association of Medical Consultants (AMC)  
Mumbai

Computerisation, information technology and advances in communication have changed our work style, environment and leisure-- our very lifestyle! We can no more afford to be isolated from these. The many advances like 3-D printing, and robotics, are now adopted in medicine too, and we must keep up-to-date. After demonetisation, digitisation had taken over and the various modes of money transfers, making secure financial transactions, is a necessity. Ethical digital online marketing with use of various social media and increasing a our visibility online is what we as medical professionals need to learn, and it's all being offered at this conference, that too with hands on training.

We hope to see you, dear AMCites, in large numbers.



**Dr. Mukesh Gupta**  
Consultant Obstetrician & Gynaecologist Secretary AMC,  
Mumbai

Information Technology has changed our lives in more ways than we could have imagined at the turn of the century. The association and dependency of healthcare towards IT is seeing a definite transformation in India albeit slow. The government has already started discussions in the form of NeHA-National e Health Authority. The Digital India movement talks of important role of IT in healthcare. Regulations gradually call upon digitalisation of Data to help higher authorities to analyse, plan and implement various necessary actions especially in case of Health epidemics and endemic diseases. Patient compliance and interdisciplinary communication can be simplified.

The lack of training on the IT in the curriculum of a medical professional leads to create barriers in implementation of these simple ideas at mass scale. Keeping up the tradition of value addition and panoramic development of doctors AMC has partnered with TIMSCDR for organising this mega event on training health care workers on this important issue and also sensitise the students from IT sector towards this issue.

Topics have been chosen keeping in mind that there may be something of interest for not just the novice but also those who have keen interest and knowledge of the subject. Hands on workshop are first of its kind to help delegates get practical experience for faster implementation of their learnings. Authorities from various regulatory departments and experts from the fields have appreciated this maiden effort which we desire to continue and enhance.

Please feel free to give suggestions as we are extremely keen to keep working on this subject.





**Dr. G. D. Yadav**  
Vice Chancellor, ICT

ICAIM 2017 is a unique academic event that talks about the role of Information Technology while performing Research. The Conference focuses on research in the domains of Basic Sciences, Industry and Medicine. I am confident that this Conference will yield the results and conclusions that will be of significant importance to academic research and education. I wish the TIMSCDR team all the best for this academic event.



**Dr. Anil K. Patil**  
Director - BCUD, University of Mumbai

I am delighted to know that Thakur Education Trust's Thakur Institute of Management studies, career Development and research, Thakur Village, Kandivali(E), Mumbai-400101 is organizing an International Conference on "Leveraging Information technology for Inter-sevctoral Research " on Friday, 17th and Saturday, 18th february, 2017. I appreciate the effort taken by the college to organize this International Conference on the issue of a current relevance.

The conference is a unique event as it is an important platform where experts can share their views about the research culture in higher education and the expectations from Industry.

ICAIM-2017 is an excellent job by TIMSCDR team! I wish you all a very fruitful and rewarding conference.



**Dr Suresh Ukarande**  
Principal, K J Somaiya College of Engineering & Technology

"Some people dream of success while others wake up and work hard for it". The renowned institute TIMSCDR is committed to building individuals for the dynamic IT Industry. The International Conference on "Leveraging IT for Inter-Sectoral Research" is an important platform where experts can share and deliberate on the time honoured topic of role of IT in Research. I wish participating delegates a successful conference and a stimulating exchange of ideas. I congratulate Dr Vinita Gaikwad and her team for the Conference.



**Dr B. K. Mishra**  
Principal, Thakur College of Engineering & Technology

I am delighted to know that Thakur Institute of Management Studies Career Deveopment and Research is organizing three days International Conference on Advances in Information Technology and Management from 17th-19th February, 2017.

I extend my best wishes to Dr. Vinita Gaikwad, Director, TIMSCDR and her entire organizing committee of the conference for the success of this grand endeavor. Hope the Presentation, Discussion and deliberation during the conference will bring an invigorating change to all the participants and society, at large.

Wish you all the best once again.



**Dr. Sanjay Prafullachandra Sane**  
Senior Scientist, National Center for Biological Sciences,  
Tata Institute of Fundamental Research

The ICAIM 2017 conference is an exciting and rare opportunity that brings together academics, industry folk and students. Such meetings are very necessary in the modern era when we cannot afford to stay insulated from each other, and I really hope the conference is able to stimulate lots of discussion about how we can help each other and collaborate. Thank you VERY much for arranging for this to happen and here is wishing you lots of luck and success in this endeavour.



**Dr. Nimita Limaye**  
CEO, Nymro Clinical Consulting Services

“Innovation is transforming the world at incredible speed and the biggest enabler is IT. Crossing all sectors, IT has established itself as a game-changer, disrupting existing processes, business models and even global economies. From ‘wearables’ to ‘virtual clinical trial’s, from ‘drones’ to ‘demonetisation’, the world is moving on. The conference on ‘Leveraging Information Technology for Inter-Sectoral Research’ will help us explore the possibilities of the future”.



**Dr Arun K. Pande**  
Director - IT Innovation for Masses (ITIM)

The International Conference on Leveraging IT for Inter Sectoral Research arranged by Thakur Institute of Management Studies, Career Development & Research is very apt to draw attention to use of IT to solve problems of the masses. IT has done well to build 150 Billion Dollar industry in India and it certainly can contribute in solving India’s problems in primary healthcare, agriculture, water, education and poverty. I wish conference a great success.



**Mr Lalit Singal**  
Vice President - Finance & Accounts, Lupin Limited, Mumbai

We are glad that Thakur Institute of Management Studies is organizing this International Conference on Advances in Information Technology & Management, leveraging information technology for Inter-Sectoral Research. Innovation is the great way to success in this digital age. The path of innovation in business means doing something different, smarter or better that will make a positive difference in terms of value, quality or productivity by using emerging or proved technologies of the world. The technology which has already proved itself in last two decades is of course the information technology (IT). It has dramatically changed the lives of the individuals and organizations.

In this new era, IT changes are happening very rapidly making continuous research in this area very important. I am sure this conference will be helpful in getting a better understanding on importance of IT in all the fields as well as to have a continuous focus on innovation & research in IT.



**Mr. R. V. Satam**  
Manager - Internal Audit, LUPIN

We are pleased to learn that 'Thakur Institute of Management Studies, Career Development & Research' is organizing an 'International Conference on Advances in Information Technology & Management - Leveraging Information Technology for Inter-Sectoral Research' (Healthcare - Industry - Basic Sciences), on February, 17th and 18th 2017, in Mumbai. In the era of rapid progress and continuous technological advances, innovation is the buzz word. Constantly innovation is the key to survival. Innovation promotes efficiencies and cuts down costs. Research creates knowledge and generates novel ideas which provide ingenious solutions to businesses. It is heartening to note that one of the aims of the Program is to inculcate the culture of performing research amongst academicians in our country. We are confident that the Program will succeed in its objective and convey our best wishes for its success.



**Dr. Ashok Pathre**  
Senior Researcher, Economics, Moderator

TIMSCDR is routinely engaged with the aim of achieving excellence in highly desired academic values such as scholarship (research), teaching and service to the community.

Chairman, Trustees, Director, Academics, Administrative staff and students of TIMSCDR deserve applaud for maintaining academic environment ever flourishing for knowledge. Continue to uphold Education and Research greatness in you Institute relentlessly.



**Prof. Dr. R. K. Joshi,**  
IIT Bombay

I am glad to participate as a panel member in the discussion on research in education which you are planning to hold in this conference. I am sure the conference will enable the participants to share their experiences and also be helpful in generating some common useful pointers and ideas for the participants working on a variety of topics that are planned to be covered.



**Mr Pravin Savant**  
Group Chief Technical Officer, Mullen Lowe Lintas Group

Leveraging Information Technology for Inter-Sectoral Research is an excellent theme & much need of the hour. I would like to compliment the initiative, particularly the unique approach to have the blend of professionals from Industry, Medicine & Education coming together to collaborate. This effort is on par with the global best practices and am hopeful will set the way for many such thoughtful interactions to benefit all the sectors. Looking forward to the conference!!



**Dr Pradeep Pendse**  
Dean IT/e-Business/Business Design/Analytics,  
Welingkar Institute of Management (WeSchool)

“Research can help a faculty member to bring tremendous value to the classroom as well as provide thought leadership within the chosen industry or social domain.

The role of Information Technology in conducting research as well as disseminating research within the community cannot be over-emphasized.

The ability of pervasive digital technologies in helping a researcher to sense in real time the behaviour of the unit of his research in its most natural setting and collecting and analyzing the resulting big data and gaining deep insights is transforming the way research can be done. Other technologies would help in enabling collaborative work.

further these technologies can help the researcher span the globe. Leveraging such technologies however would require a change in the research culture and mindset”

---



**Mr. Prasad Anjani**  
MD, Archroma

This conference will help

- IT to connect with innovation field in industry.
  - For analysis and data management IT is essential.
  - In chemical space electronic for testing is critical for many test.
  - The sensor technology is critical and remote sensing is very critical now on area of wearable textile . Sweat monitoring and also for military purpose.
  - NFC technology is used well in traceability and identification well with NFC chips.
- 



**Prof. Sudhakar Yedla**  
Professor of Environmental Policy, Institute:  
Indira Gandhi Institute of Development Research (IGIDR), Mumbai

Nexus between industry and academia plays an important role in making research more useful to the society. On the other hand it is also important to have good connect between policy makers and the academia so as to develop transforming solutions that are needed to shift the society to higher planes. Such synergy involving IT and IoT are not only advised but becomes a necessity in the present day context of the society becoming digital-savvy. TIMSCDR’s international conference on advances in information technology and managing as an attempt to leverage IT for inter-sectoral research is a step much needed to ensure such synergies evolving on Indian research canvas.



**Dr. Manjusha Patankar**  
Clinical Medicine Infomatics India

“Leveraging Information Technology for Inter-Sectoral Research”

Research in the field of medicine has always been in a dynamic state. Areas of research vary but the research methodologies and principles we follow remain the same. What has changed over the years is the handling of the data generated from good quality clinical trials. The good quality of research and research papers accruing today must also be attributed to the facilitation of research by improved softwares for handling studies right from the design to the execution and analysis of the data.

The handshake of information technology with medicine will help us improve our quality of research and offer positive clinical implications globally.



**Mr. Sanjay M Kimbahune**  
Senior Scientist, Innovation Labs - Mumbai, Tata Consultancy Services

Today's world is hyper dynamic and connected. The only thing that any academic institute or industry can remain relevant is the one that invests in good quality research. This conference touches two very important aspects of research i.e improving research culture in academic institutes and connect with industry specifically from IT perspective. We are delighted therefore to be part of this conference and hope that everybody gets good academic and professional insights of research being pursued there.



**Dr. K. Manjunath Nookala**  
Scientific Officer E, Dept. of Clinical Pharmacology,  
ACTREC, Tata Memorial Centre

Being involved in the International Conference ICAIM-2017 is of great interest to me. Information technology has made its presence in medical field since long time. The use of Information Technology in research will definitely be of great importance and it makes a big impact but is not used by all sectors of the research. The theme of the conference itself speaks about bringing all sectors of research on a common platform, which provides an opportunity to discuss the various pros and cons of using the information technology in research. As an academician, I am looking forward for this conference. The conference is with a feast of knowledge shared by the eminent speakers. I suggest budding researchers to utilize this opportunity and get benefitted. Thanks to the organizers for planning a conference of its kind.



**Dr. Ashok Shukla**  
MBBS DNB FCPS LLB, Sec-AMC

This is one of the different type of conference which mainly deals with practical aspects. The best part of the conference is the hands on experience which gives confidence to the attending delegates about what they can do with when using latest IT tools.

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# PREFACE

Heraclitus, a Greek philosopher, is quoted as saying “change is the only constant in life.”

ICAIM 2017, the one of its kind International conference titled “Leveraging Information Technology for Inter-Sectoral Research” unfolds the truth that research is all about change and innovation is a byproduct of research. Today the world demands a constant change . in almost everything so as to make life easier and comfort able. . Newer and innovative products which are easily available and affordable have improved and increased the pace of life. These products see the light of the day only because of the research that happens behind each one of them. This research plays a pivotal role in encouraging innovation for positive lifestyle.

ICAIM 2017 talks about Inter sectoral research happening in three sectors that is Basic Sciences, Industry and Medicine. The conference also makes a genuine attempt to study and understand the research culture in higher education institutions . in the metropolitan city of Mumbai in India. The making of ICAIM 2017 which started a year back did a small survey in each of the three sectors to understand the level of research and the role of information technology in research. As the aim of the conference was to find out the research culture in higher education institutions a few of the basic sciences and medical colleges were approached and their Post graduate department students and faculties were surveyed. In the medical section a total of 137 postgraduate Medical students & faculty members and 117 post graduate dental students & faculty members were surveyed. The survey indicated that post graduate research is more in the dental section as compared to the medical section. Also neither of the sections made much use of information technology when performing research other than for documenting of their research findings. In case of basic sciences 35 colleges were surveyed for the postgraduate departments of physics chemistry biology zoology computer science biotechnology microbiology and molecular sciences. A total of 120 post graduates from basic sciences responded to the survey which indicated that research is happening at the college level but the use of IT is only for documenting their research findings. This minuscule survey shows that the research culture in higher dictation institutions requires to be enhanced and encouraged. More over there is scope for leveraging information technology when performing such research.

ICAIM 2017 had various events like three conference sessions scientific presentations, IoT workshop, and expert talks by stalwarts from the industry, academics and renowned research institutions. The hands-on workshop for doctors on multichannel marketing want to start attraction for the medical professionals to leveraged information technology to enhance healthcare for their patients.

ICAIM 2017 provided a platform for open forums with Panelist from the academics and the industry to discuss and deliberate on the important issue of research culture in higher education institutions and the expectations from the industry.

I take pride to present this proceedings which is an humble effort to encourage research amongst young research scholars from the fields of basic sciences, medicine and technology.

**Dr Vinita Gaikwad**  
Director

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