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INTERNATIONAL CONFERENCE ON ADVANCES IN INFORMATION TECHNOLOGY AND MANAGEMENT

*Leveraging Information Technology
for Better Healthcare*

CONFERENCE PROCEEDINGS

Saturday 20th & Sunday 21st February 2016



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Chief Patron's Message for ICAIM-2016

It gives me immense pleasure to see TIMSCDR, under the aegis of Thakur Education Group (TEG) persist on its journey into the field of academic research. In this era of Globalization, TIMSCDR's 'International Conference on Advances in Information Technology and Management' 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.

The facets of Information Technology (IT) are changing very fast and are becoming interdisciplinary. The continuing technological advancements in various fields of IT have also had a profound impact on the Medical Science and have revolutionized the healthcare field. It will surely help achieve better health outcomes and streamline medical care processes. It is a fundamental obligation for a developing nation like India.

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 Medical, Pharmaceutical Science and IT industry. I am sure this exchange of ideas among eminent personalities from relevant fields will generate knowledge that can be constructively employed to achieve innovative and sustainable solutions for better healthcare.

I congratulate the organizing committee whose dedicated efforts have brought the event to fruition. I am also very grateful to all the delegates and research scholars for sharing their research and making this conference a success.

V.K. Singh
Chairman



CEO's Message for ICAIM-2016

I am extremely delighted to greet and welcome you all for the upcoming International Conference on Advances in Information Technology and Management titled “Leveraging Information Technology for Better Healthcare” organized by TIMSCDR, under the aegis of Thakur Education Group (TEG).

The continuing technological advancements in various fields of Information Technology (IT) have had a profound impact on the Medical Science and it has revolutionized the Health care field. Health information technology and electronic health applications are likely to change the shape of the health care workforce, by raising efficiency; allowing more patient care by increasing the opportunity for patients to receive care remotely.

It aims to bring together research scholars and intellectuals from Medical and Information technology (IT) fraternity on a common platform to discuss and deliberate on the issues confronting the demand to look for solutions. The challenges of medical education, the responses and preparedness to deal with them with the advancement of IT will also be reflected upon.

The enthusiasm and zeal of organising committee is commendable indeed. I extend my best wishes to the faculty, delegates and the organising committee for excellence in their endeavours.

Karan V. Singh
CEO



Director's Message for ICAIM-2016

Research is road map for future development. With substantial research, progress is an obvious outcome.

To be recognized amongst the multitudes you have to be innovative and unique.

It is better to work hard than be a dead log.

Summing the above thoughts together, ICAIM 2016 titled “**Leveraging Information Technology for Better Healthcare**” has emerged as first of its kind among the Interdisciplinary International Conferences held by professional institutes under the aegis of University of Mumbai. It showcases a perfect blend of two different domains of Medicine (Healthcare) and Information Technology.

ICAIM 2016 provided a unique platform for more than 500 participants comprising of Professionals, Researcher Scholars, Academicians and Students, from the fields of Medicine (Healthcare) and Information Technology.

ICAIM 2016 was a great opportunity of stepping out of our domain of Information Technology and interacting with stakeholders at various levels from the field of Medicine (Healthcare) and understanding their IT requirements and researching for solutions to best meet the domain specific requirements.

It was a pleasure and pride to have the grand opportunity to work with the most sober and intelligent minds – DOCTORS. I express my sincere thanks to AMC (Association of Medical Consultants) for associating with our Institute in organizing this event. I sincerely thank Dr. Sudhir Naik, President, AMC for his kind gesture to participate in this Conference. I am specifically grateful to Dr. Mukesh Gupta, Secretary, AMC for being a great source of motivation and knowledge. I am also thankful to Dr. Kritika Doshi, Program Coordinator, AMC.

I also express my sincere thanks to the Dr. Avinash Supe, Dean, KEM Hospital and Seth G.S. Medical College and Dr. Suleman Merchant, Dean, Lokmanya Tilak Medical College and Hospital for their constant support and encouragement.

Special thanks to Dr. R. R. Shinde, Head – PSM Dept KEM Hospital and Seth G.S. Medical College and Dr. Seema Bansode Gokhe, Head – PSM Dept LTMC and LTMH for the great opportunity

given and trust shown them for allowing TIMSCRD to carry out Interdisciplinary Research work at their prestigious Institutions as a part of the Conference agenda.

Through this entire process of making of ICAIM 2016 one name stands out, Dr Jacob Thomas, who has been constantly supporting us in our endeavor. The conceptualization of ICAIM 2016 happened through informal discussions with Dr Jacob Thomas and TIMSCDR Faculty.

I express my sincere thanks to all dignitaries, sponsors, reviewers, delegates and authors.

I am grateful to our Chairman Mr. V. K. Singh who has been a constant motivator because of whom ICAIM 2016 has seen the light of the day. I am specially thankful to our Management.

My special thanks to our TIMSCDR family of dedicated and proactive Faculty and Staff for their perseverance to make ICIAM 2016 a grand success.

Dr. Vinita Gaikwad

I/c 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 membership strength of 7515 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.Sudhir Naik

MBBS,MD - Obstetrics & Gynaecology
President ACM

The 21st Century has been the era of Information technology. Information technology has changed our lives in more ways than we could have imagined at the turn of the century. It is expected to help the healthcare industry to lower costs, improve efficiency and reduce errors, while also providing better consumer care and service. The Government of India under the able leadership of Prime Minister Narendra Modi has visualized a dream of a “Digital India” and we as healthcare professionals cannot disappoint him and it should be our endeavor to use Information technology for optimum utilization of human resources to ensure healthcare for even the remote villages in our country.

On an individual level many doctors have been using IT for providing better services for themselves and for their patients. But we need to accept that many senior doctors still are “Technologically challenged” In order to help our members to keep pace with technology and leverage its use for providing better services for our patients AMC in collaboration with the Thakur Institute of Management Studies, Career Development and Research has organized the 1st ever Conference “**Leveraging Information Technology for Better Healthcare**” on the 20th and 21st of February 2016. I am sure this conference will be a path breaker and help in better coordination between the IT professionals and Healthcare professionals to help society in general. I wish the Conference and its organizers the Very Best and great success.



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

India for long has been perceived as a knowledge bank and a victim of Braindrain in the two crucial sectors of Healthcare and Information Technology. 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 TIMSR 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 Jacob Thomas
MD(Med)DNB(Med)

The concept of digitalization of healthcare in Maharashtra state may not be new. However the efforts in that direction have been very few if at all. The conference attempts to get together the best medical and IT minds to discuss what has been achieved so far, what the current status in rest of the world is and how best we can modify the available technologies to best suit to Indian conditions .The topics has been chosen with utmost care and detailed research and many man hours has been spent in the minutest deliberations leading to this conference. Hence am sure that much good will come out of this for healthcare professional as well as was IT students and professionals, for whom it may open new areas of opportunities.

Thank you and best wishes always



Mr. Nishant Patel
B.S. in Computer Science
from The Ohio State University
Founder and CTO built.io

My congratulations to you on organizing an outstanding International Conference. I hope the deliberations of the conference will go a long way in devising a feasible action plan benefitting both the IT and Healthcare sectors.

My best wishes for the success of the conference.”



Dr Kritika Doshi
MD,DA,FIPP,ISSP-Pain Fellowship
Program Committee Chairperson- AMC

Congratulations on the innovative international and educative initiative taken by your institute and AMC to reach out to practicing doctors. This is the first of its kind and I am sure many more such conferences will follow.

I wish you the very best for a successful conference and workshops.

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PREFACE

As rightly quoted by Hungarian American physiologist and Noble Prize winner, Albert Szent-Gyorgyi

- Research is to see what everybody else has seen and to think what nobody else has thought.

ICAIM 2016 titled as “**Leveraging Information Technology for Better Healthcare**” is first of its kind Interdisciplinary International Conference under the aegis of University of Mumbai.

Organized in association with AMC (Association of Medical Consultants) ICAIM 2016 is a unique Conference for Professional, Research Scholar, Academicians and Students from the fields of Medicine (Healthcare) and Information Technology.

ICAIM 2016, conceptualized in February 2015 has been a yearlong adventurous and knowledge gaining journey for the Faculty, Staff and Students of TIMSCDR as we moved through the making of this conference. Our work began with the ideology that Computer Applications have been a growing practice in various parts of the Indian Society and different sectors of the Indian economy. ICAIM 2016 ventured into the study of focused Use of IT in the Healthcare sector and researched how it can be best leveraged in the field of Healthcare.

During the year the TIMSCDR team met Healthcare professionals of different Medical Colleges and Hospitals. The initial phase of work began with a survey of 800 doctors from Government and Private organizations to understand the use of IT by them in Healthcare. The analysis of data of the survey indicated that 90% of the Healthcare Professionals are using Information Technology, but only 20% are actually using it for providing Better Healthcare to their patients. This outcome of the analysis was an opportunity for doing Research in finding out how IT can be best leveraged in Healthcare so that both the Healthcare Providers (Doctors, Nurses and Paramedical staff) and the Healthcare Receivers (Patients) are benefitted. The study also tried to know the current level of use and awareness of IT amongst Healthcare Professionals.

Understanding the need of study and research in the Use of IT in Healthcare, Pre Conference Research Paper presentations were organized in which more than 120 research papers were presented by young research scholars. To understand how latest technology can be used for Healthcare, IoT (Internet of Things) Workshop was organized to prototype smart Healthcare Solutions.

At the culmination of the journey on 20th Feb 2016, ICAIM 2016 provided a platform for talks on IT and Healthcare by eminent professionals from the fields of Medicine and Information Technology. Panel discussion on “**Role of IT in Healthcare – The Road Ahead**” with eminent panelist and a unique hands-on **Workshop on “IT in Healthcare**” for Doctors are unique aspects of this workshop.

It gives me immense contentment to present this document of Research Proceedings of ICAIM 2016 based on year long dedication, hardwork and study to attain the essence of the Conference titled “**Leveraging Information Technology for Better Healthcare**”, with the hope that the outcome of this Conference will be of immense benefit to healthcare providers and beneficiaries.

Dr. Vinita Gaikwad
I/c Director

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