3rd National Conference on
Data mining & ICT (NCDM 2015-16)

In the fields of

Medical-Informatics,

Bio-Informatics,

Business Management,

Agro-Informatics

In association with

Savitribai Phule Pune University

Organized by,

Maharashtra Cosmopolitan Education Society

Allana Institute of Management Sciences, Pune

MCA Department

Affiliated to the University of Pune and approved by A.I.C.T.E.

About Pune

Pune formerly called **Poona**, also known as **Punya-Nagari**, is the eighth largest metropolis in India, the second largest in the state of Maharashtra, after Mumbai and the largest city in the Western Ghats. Today, Pune is known for its educational facilities and relative prosperity. Pune is considered to be one of the most important IT hubs of India. Pune is the notional seat of the Marathi language and the cultural centre of Maharashtra. Popularly known as the Oxford of the east, numerous students from every corner of India and the world come to Pune to pursue education.

About MCE Society

Established in1948, Maharashtra Cosmopolitan Education Society is one of the oldest and reputed educational societies of India. The society runs 30 institutes from its ultra modern campus located in the heart of Pune city, Camp, Maharashtra, India. The Institutes, Schools and Colleges run by the society offer Primary Education, Secondary Education, Under-Graduate and Post-Graduate courses in various domains such as Medicine, Dentistry, Pharmacy, Hotel Management, Law, Architecture, Information Technology, Management, etc. The Institutes, Schools and Colleges run by the Society are fully recognized by the Govt. of India and are affiliated to the University of Pune and other such affiliating bodies. The society is managed by a professional governing board headed by Honorable Shri. P. A. Inamdar who is a Visionary, Educationist, Banker, Property Developer and renowned Social Worker. Under the visionary leadership of Honorable Shri. P. A. Inamdar, the society is surging ahead to greater heights of success.

About AIMS

Maharashtra Cosmopolitan Education Society's Allana Institute of Management Sciences (AIMS) at Azam campus, Camp, Pune was established in the year 1998. The Institute has approval of Government of Maharashtra, All India Council for Technical Education (AICTE) Delhi, and is affiliated to the University of Pune. It is situated in the heart of Pune Cantonment area.

The prime goal of AIMS is to produce professionals in the area of Information Technology and Business and to equip the young generation in order to enable them to solve the technical and business issues emerging out of global environment. To achieve these objectives the institute has developed state of the art, well-equipped modern Computer Laboratories, Internet, Intranet, Wi-Fi connectivity, Spacious Conference halls, E-library and Seminar Halls. The Institute offers full time Postgraduate courses viz. Masters in Computer Application (MCA), Masters in Business Administration (MBA) and Ph. D. in computer management and management. The institute is headed by Dr. (Prof.) R. Ganesan - B.Com, FCA, MBA, Ph.D who is a renowned Management Guru. The institute has senior and experienced faculty members, uses innovative teaching methodologies and strategies, guaranteed to unleash the potential of the students. The Institute produces efficient and effective IT professionals and Managers. It caters to students from all over India and various countries like Africa, Oman, Bahrain, Afghanistan, Iran, Yemen to name a few.

About NCDM

NCDM 2015-16 is the third national conference in the series of National conferences organized by AIMS. The first national conference, NCDM 2011, in Feb 2011 and second national conference NCDM 2013, in Jan 2013 were grand success. Resource persons from Maharashtra Animal & Fishery Sciences (MAFSU) Nagpur, National Informatics Centre (NIC) India, Bharati Vidyapeeth, CSI, IRMA Anand, CDRI Lucknow, Indian Association for Medical Informatics (IAMI), International Neural Network Society (INNS) guided the participants.

Conference Objective

- The objective of **3rd NCDM 2015-16** is to bring together a forum for demo and paper contributions from researchers, practitioners, developers, and users to explore and disseminate cutting-edge ideas and results, and to exchange techniques, tools and experiences in the fields of **Medical-informatics, Business Management, Agro-informatics and Bio-informatics**
- To enhance the skill levels in Data mining applications and healthcare information technologies that improves the quality of health care and reduce medical errors , healthcare cost, increase administrative efficiency and expand access to affordable health care.

Theme: Data Mining in Medical Informatics

Data mining is a promising field in which research and development activities are flourishing. This conference is organized to let research scholars contribute to this fast expanding, multi-disciplinary areas in **Medical-informatics, Business Management, Agro-informatics and Bio-informatics**. Medicine is an information-intensive profession in which Data mining should integrate patient information and disease histories, research literature and evidences. This conference focuses on application of data mining & ICT in **Medical-informatics** which can improve mobility and ubiquity in healthcare systems, standardization of technologies and procedures which are some of the issues that medical informatics professionals and the ICT industry in general need to address in order to further promote data mining & ICT in healthcare. Data miners can develop powerful tools to meet needs of enterprises and organizations.

Conference Scope

Medical-Informatics

- ◊Text Mining and anthologies
- ◊Pattern Prediction
- ◊Dental Informatics
- ◊Healthcare Knowledge Management and DSS
- ◊Healthcare Modelling and Simulation
- ◊Data Analytics in Healthcare
- ◊Integrated Data Repository

Business Management

- ◊Business Intelligence
- ◊Retail Management.
- ◊Risk Management.
- ◊Supply Chain Management
- ◊Customer Relationship Management
- ◊Finance and Banking
- ◊HR Analytics

Bio-informatics

- ◊Pattern Recognition
- ◊Sequence Classification
- ◊Microarray Analysis
- ◊Phylogenetic
- ◊Public Databases
- ◊Biotechnology and Pharmaceuticals
- ◊Computers in Medical Education

Agro-Informatics

- ◊Precision Farming
- ◊GIS Applications
- ◊Meteorology
- ◊Crop/plant disease detection
- ◊Agro-biomass estimation
- ◊Water Resource planning and Management
- ◊Soil Data Analysis
- ◊Weather Information Representation

Intensive workshop and hands on
Big Data Analytics in Healthcare using Hadoop platform, R, Latex, Weka

Workshops/Tutorials

- Intensive workshop with adequate hands on will be conducted on BigData Analytics, R and LATEX

Student's Track

- Exclusive poster session for postgraduate students in student's track.

Participant Categories-Who should attend/apply?

- Faculty members from Senior colleges, IT and B-schools, Medical and Related Professional colleges, Life science and Related Professional colleges.
- Ph.D. aspirants in all professional subjects with research interest in informatics.
- Research scholars in all professional subjects with research interest in informatics.
- Professionals from Medicines, Biotechnology, Bioinformatics Agricultural field and Business
- Post Graduate Students (M.E., M. Tech, MCA, M.Sc.(Life Sciences & Computational Sciences), M.D., M.S., M.V.S.C., M.D.S. etc)

Review Process & Publication

- All papers will undergo thorough a review process and will be evaluated based on originality, relevance, rigorous research, applicability and contribution to the body of knowledge.
- Abstracts and Posters will be printed.
- Best Paper/Poster in Medical Informatics domain : **1st price** Rs. 3000/- , **2nd price** Rs. 2000/-
- Best Paper/Poster in Pure-IT/Data Mining domain : **1st price** Rs. 3000/-, **2nd price** Rs. 2000/-
- Selected quality papers will be published in the proceedings with **ISBN**.

Tentative Program Schedule

<table>
<tr><th>Time</th><th colspan="2">13th February 2016</th><th colspan="2">14th February 2016</th></tr>
<tr><td>09.00 a.m. - 10.0 a.m.</td><td colspan="2">Registration and Breakfast</td><td colspan="2">Registration and Breakfast</td></tr>
<tr><td>10.00 a.m. - 11.30 a.m.</td><td colspan="2">Inauguration</td><td colspan="2">Technical session –2</td></tr>
<tr><td>11.30 a.m. - 11.45 a.m.</td><td colspan="4">Tea break</td></tr>
<tr><td>11.45 a.m. - 01.15 p.m.</td><td colspan="2">Technical session -1</td><td colspan="2">Panel Discussion</td></tr>
<tr><td>01.15 p.m. - 02.00 p.m.</td><td colspan="4">Lunch break</td></tr>
<tr><td rowspan="3">02.00 p.m. - 03.30 p.m.</td><td>Workshop</td><td>Presentation</td><td>Workshop</td><td>Presentation</td></tr>
<tr><td rowspan="2">Language-R- for Healthcare Analytics</td><td>Case Study:
Building an APP for Physiotherapy Analytics</td><td rowspan="2">LaTeX</td><td>Case Study:
Web Analytics of Hospitals in Pune</td></tr>
<tr><td>Case Study:
Text mining for Improvement in Dental Hospital Software</td><td>Case Study:
Spreadsheet Templates for Healthcare Managers and Practitioners</td></tr>
<tr><td>03.30 p.m. - 03.45 p.m.</td><td colspan="4">Tea break</td></tr>
<tr><td>03.45 p.m. – 05.15 p.m.</td><td>Big Data Analytics in Healthcare</td><td>Oral Paper Presentations</td><td colspan="2">Valedictory</td></tr>
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Important Dates

Full papers submission : 25th January 2016
Last date of Registration : 2nd February 2016
Conference Dates : 13th & 14th February 2016

Registration Details

◊ **Fees**

Ph.D. Student / Research Fellow	: Rs. 1000 /-
Faculty	: Rs. 1500 /-
Corporate	: Rs. 2000 /-
PG Students (M.E., M.Tech, MCA, M.D., M.S., M.Sc.(Life Sciences & Computational Sciences), M.V.S.C., M.D.S. etc)	: Rs. 750 /-

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Note: Please submit your queries to conference@aimspune.org

Venue

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