



27th National Conference
Digital Technology to Digital Economy

17th February, 2017, Tecnia Auditorium, TIAS, Delhi



Date and Day
17th February 2017, Friday

Venue
Tecnia Auditorium,
Madhuban Chowk, Rohini, Delhi-110085

Organized by



TECNIA INSTITUTE OF ADVANCED STUDIES

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Genesis

The digital revolution is bringing about changes in modes of production and patterns of consumption, in how we understand the world, in how we govern, and even in how we live together in society. Digital Technologies which include Cloud Computing and Mobile Applications have emerged as catalysts for rapid economic growth and citizen empowerment across the globe. Digital technologies are being increasingly used by us in everyday lives from simply money transfer, retail stores to e-governance. These trends enable more than just technological innovation. They spur innovation in business models, business networking and the transfer of knowledge and access to remote, national and international markets. They help us to connect with each other and also to share information on issues and concerns faced by us.

Digitalization also means the process of making digital everything that can be digitized and the process of converting information into digital format. Digitalized information is usually made up of binary digits and can be processed by computers. The computer decodes the digits and generates information that is human-readable.

The digital economy is a transformative process, brought about by advances in information and communications technology which has made technology cheaper and more powerful, changing business processes and bolstering innovation across the sectors including traditional industries. Today, sectors as diverse as retail, media, manufacturing and agriculture are being impacted in some way by the rapid spread of digitalization. In the broadcasting and media industry, for instance, the expanding role of data through user-generated content and social networking have enabled internet advertising to surpass television as the largest advertising medium.

It is an opportunity for technocrats, academicians, practitioners and consultants from around the country who are involved in the innovation, study, management, development and implementation of systems and concepts to combat information warfare or to improve information systems security to come together and exchange ideas. This Conference is expected to attract people from the IT community to stimulate interesting discussions about the implementation of Digital Technology in Society and its journey towards Digital Economy.



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Objectives of the conference

- To assess the potential of India and World in digitizing the System
- To identify the hurdles and roadblocks in the path of Digitized system.
- To suggest amendments to the act and potential areas of improvement.
- To build a Digital roadmap that can scale today and into the future
- To focus on changing the paradigm of how we look at digital space and security
- To encourage Research Scholars to share their work with Delegates and other experts.
- The objectives of the Conference on Digitization and Digital Preservation are for providing a strategy for safeguarding of scientific heritage as well as discussing the key issues related to digitization and preservation.
- To provide the participants an opportunity to examine the different dimensions of current environment with context of Digitalization.
- To provide a platform for industry, academia and government to exchange views and enable a joint, conscientious and speedy effort to step up the awareness among the people on the various dimensions of digitalization in this direction.
- To explore transformation due to digitalization and IoT in different Public and Private sectors viz. IT, ITES, ICT, Information Services, Service Sector, Marketing, Sales, Banking & Finance, Retail, HR, Manufacturing, Operations, IBM, Quality, Education, Entertainment, Agribusiness, Governance, Health, Sport etc.
- To elaborate the impact of Digital India Movement in enhancing employability and entrepreneurship.
- To explore and establish ideas for the applicability of Digital Technology towards making robust Digital Economy.



Researchers, Academicians, Industrialists and Students delegates are invited to submit their original papers. Topics covered by the conference include, but are not restricted to, the following:

- Encryption
- Data protection Copyright Issues
- Networking Techniques and Technologies
- Storage Solutions/ Specifications
- Digital Economy
- Digital Crime
- Cloud Computing
- Big Data
- Mobile Ad-hoc and Wireless Sensor Network
- Communication Network Architecture
- Software Engineering
- Biometrics
- Threats & protection in IT
- Information Security in E-Governance
- Cyber-exploitation Execution & Defence Steganography
- Computer Networking and Data Communication
- Big Data Tools
- Information and Communication Technology
- Artificial Intelligence
- Database Management
- Mobile Applications Development Technologies

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Minute To Minute Programme

Venue – Tecnia Auditorium, Institutional Area, Madhuban Chowk, Rohini, New Delhi-85		
Date & Day : 17 th February 2017, Friday		
9000-1000hrs	Registration of Delegates	
INAUGURAL SESSION		
1000-1005hrs	Arrival of Chief Guest & Guests of Honour	
1005-1010hrs	Inviting the Chief Guest and other dignitaries on the Dias	
1010-1015hrs	Lightening of Lamp, Saraswati Vandana	
1015-1020hrs	Felicitation of Chief Guest and other dignitaries	
1020-1025hrs	Opening Remarks	Dr. Ajay K. Rathore, Director <i>Tecnia Institute of Advanced Studies, New Delhi</i>
1025-1030hrs	Release of Conference Proceeding	All dignitaries on the Dias
1030-1040hrs	Key Note Address by	Dr. Sudhir Dawra, Professor <i>Tecnia Institute of Advanced Studies, New Delhi</i>
1040-1050hrs	Address by Guest of Honour	Amit Kukreti, Vice President (Technology) <i>Stealth Mode Startup, New Delhi</i>
1050-1100hrs	Address by Guest of Honour	Prof. (Dr.) K. P. Yadav, Director <i>IIMT, G.Noida</i>
1100-1110hrs	Address by Chairman	Sh. Ram Kailash Gupta, Chairman <i>Tecnia Group of Institutions, New Delhi</i>
1110-1125hrs	Address by Chief Guest	Guest Prof. M.N. Doja, Professor & Head, Department of CSE <i>Jamia Millia Islamia, New Delhi</i>
1125-1130hrs	Vote of Thanks	Mr. M. N. Jha, MR System <i>Tecnia Institute of Advanced Studies, New Delhi</i>
PLENARY SESSION:- 1		
1130-1315 hrs	Chairperson	Prof. (Dr.) K. P. Yadav, Director, <i>IITM, Gr. Noida</i>
	Speaker-1	Er. Jitendar Tanwar, Asst. Prof. <i>Amity School of Eng. & Tech.</i>
	Speaker-2	Mr. Hari Om Sharma, Asst. Prof. <i>CMS Girls Polytechnic, Daurala, Meerut (UP)</i>
	Speaker-3	Er. Dayanand, Asst. Prof. <i>HRMITM, GGSIP University, Delhi</i>
	Speaker-4	Ms. Priyanka, Research Scholar <i>Al-Falah University, Faridabad</i>
	Speaker-5	Er. Vinita Sharma, Asst. Prof. <i>ABSS Institute of Technology, Gzb.</i>
	Speaker-6	Ms. Vipin Kumari, Research Scholar <i>Himalayan University</i>
	Speaker-7	Ms. Shakshi Mathur, Research Scholar <i>MGM Engg. College, Noida</i>
	Speaker-8	Er. Sachin Chaudhary, Asst. Prof. <i>Bhagwant Institute of Technology, Muzaffernagar</i>
	Speaker-9	Er. Shriniwas Singh, Asst. Prof. <i>Swami Vivkanand Subharti University</i>
	Speaker-10	Mr. Farooq Seeru, Asst. Prof. <i>Al-Falah University, Faridabad</i>
Speaker-11	Mr. Manik C. Pandey, Asst. Prof. <i>Swami Vivkanand Subharti University</i>	
1315-1415 hrs	Lunch	

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PLENARY SESSION: - 2		
1415-1600 hrs	Chairperson	Prof. (Dr.) Sajay Pachauri, HoD (CSE) <i>IITM, Greater Noida</i>
	Speaker-1	Ms. Priyanka Gautam, Asst. Prof. (Computer Science) <i>CPJCHS, Delhi</i>
	Speaker-2	Ms. Mani Sharma <i>Mahatma Gandhi Mission Engineering College, Noida</i>
	Speaker-3	Er. Akshay, Full Stack Developer <i>Ramanan Corporation</i>
	Speaker-4	Ms. Varsha Saxena <i>Mahatma Gandhi Mission Engineering College, Noida</i>
	Speaker-5	Mr. Rajiv Pandey, Cloud Computing <i>Corporate Trainer</i>
	Speaker-6	Ms. Reshma B., M.Tech (P), Dept. of CS&E, <i>MGM CoET, Noida.</i>
	Speaker-7	Mr. Firoj Parwej, Research Scholar <i>Singhania University, Jhujhunu, Rajasthan.</i>
	Speaker-8	Ms. Monika Bhatnagar, Assistant Professor, <i>Dept. of CSE, Bhagwant Institute of Technology, Muzaffarnagar</i>
	Speaker-9	Ms. Manisha Chauhan, M.Sc (S/w)Final <i>Guru Nanak Girls College, Yamunanagar</i>
	Speaker-10	Dr. Kanika Gupta & Divya Kalra, <i>Deptt. of Management, TIAS, New Delhi</i>
Speaker-11	Er. Amit Jaiswal, Assistant Professor, <i>Dept. of CSE, Ideal Institute of Technology, Ghaziabad.</i>	
PLENARY SESSION: - 3		
1600-1700 hrs	Chairperson	Prof. (Dr.) Amit Asthana, Professor <i>Swami Vivekanand Subharti University, Meerut</i>
	Speaker-1	Ms. Sakshi Gahlot & Ms. Bhawna Verma, Research Scholar <i>GGSSIP University, Delhi</i>
	Speaker-2	Ms. Deepti Batra & Vansh Kinra, Research Scholar <i>GGSSIP University, Delhi</i>
	Speaker-3	Mr. Anurag Khandelwal, Research Scholar <i>GGSSIP University, Delhi</i>
	Speaker-4	Ms. Dimple Uppal & Ms. Garima, Research Scholar <i>GGSSIP University, Delhi</i>
	Speaker-5	Ms. Mansi Goel & Ishita Bhatia, Research Scholar <i>GGSSIP University, Delhi</i>
	Speaker-6	Ms. Manu Shree, Research Scholar <i>GGSSIP University, Delhi</i>
	Speaker-7	Mr. Shivam Sharma, Research Scholar <i>GGSSIP University, Delhi</i>
	Speaker-8	Ms. Surabhi Jajodia, Research Scholar <i>GGSSIP University, Delhi</i>
1700-1710hrs	Valedictory Session	Dr. Vishal Khatri, HoD- MCA <i>Tecnia Institute of Advanced Studies, New Delhi</i>



Report on 27th National Conference on “Digital Technology to Digital Economy” on 17th Feb 2017

The conference was set off with the opening remarks of Dr. Ajay Kumar Rathore, Director, TIAS. He nicely emphasized how Digital Technology is used by the mass on an everyday basis. He also gave a glimpse of its impact on many sectors such as business, agriculture and many more. He highlighted the conference’s importance in present world.

The keynote address was delivered by Dr. Sudhir Dawra. His speech focused on how digital technology can be used to bring many sectors together and thereby expand the growth of economy. He shared his feeling how this platform can provide the participants new aspects of information security through modern digital technology.

Guest of honour, Mr Amit Kukreti, informed the audience about his thoughts about how the digital technology can provide youngsters a platform for entrepreneurships which can boost the economy of the country.

Prof. K. P. Yadav, narrated his point of view by citing many examples the many fields where digital technology can be used to enhance and empower the common mass by making more accessibility and mode of exchanges.

In his speech, the day’s chief guest, Prof. M.N. Doja, spoke about demonization which, according to him, kick starts the digital economy. He elaborated the concept of transformation to digital economy through digital technology in many aspects such as smart cities, etc. He also expressed his concern about hacking, information loss, cyber-crimes, because of the huge transmission of data/information through digital channels without proper policy and standard regulations.

The inaugural session was concluded with the vote of thanks by Mr. M. N. Jha, MR/TIAS.

Plenary Session I:

The first plenary session was chaired by Dr. K.P. Yadav.

The first speaker, Mr. Jitender Tanwar, on his topic “Prevention of Injection attack to secure XML based web services in Mobiles” informed the audience about how injection attacks can be prevented with the help of XML based web services particularly in Mobiles.

Ashish Dhamija, on his topic “A comparison of hand gestures” nicely explained about the gestures with reference to American Sign language that communicate with problems.



Next speaker Vipan Kumari on the topic “Software Cost Estimation” talked about classical theory of software cost estimation. She narrated research aspects in Fuzzy theory and neural network model with respect to her research topic.

The next speaker Priyanka explained her research on the topic “Estimating Software in Verification & Validation model with work Breakdown technique” by showing the VV process model with WBD techniques using in development process.

The fifth speaker of the 1st session Mr. Aditya Mishra presented his research work on the topic “ A Bio-Medical Research Query Answering System”. His work Pubmed, related to the question answering system to facilitate patients to help diagnose diseases is promised to be sustainable and free of cost.

Next speaker, Ms. Varsha, presented her work on “Detection of Android Malware” by giving brief description about the detection phase of malware in Android service.

The 7th speaker Farooq’s presentation was on his work on “Stock market forecasting using machine learning”. He nicely emphasized how machines can be trained to learn the environment by supplying test data and make them forecast stock market. He also informed that the deliverable of the project will be simulation of the current stock market scenario.

Our next speaker, Mr. Mani Sharma, presented her paper on “Cut detection in wireless networks” by citing the problems in DoS, CCoS and many other applications.

The next speaker, Shreyas’s presentation was on the work “Analysis of Genex detection to prevent cancer”. It also showed the timeline of the cluster performance.

The first plenary session concludes with Mr. Dayanand’s presentation. He presented his survey on “Cyber crimes and ATM frauds”. He explained how ATM pins can be hacked through PIN compromise and keypad jamming. He informed the audience how these situations can be avoided by citing many instances of such occurrences.

Plenary Session II:

The second plenary session was chaired by Dr. Sanjay Pachauri.

The session was started off with the presentation by Ms. Monika Bhatnagar on her research work on “ Improved Quality Service of AODV Routing Protocol”. She tried to address the route discovery mechanism of AODV Routing protocol through her research. The second presenter Ms. Reshma narrated her work on “Cloud Computing” by giving description on the advantages of scalability, flexibility, and efficiency of the computing technique. She also discussed the major issues like privacy preserving, Auditing and demands, etc.



Presenters Ms. Divya Kalra and Dr. Kanika Gupta presented their work on “Brand failure in India due to lack of digitalization”.

The fourth speaker Mr. Sachin Chaudhary elaborated the mechanism of “Encryption” by briefing on cryptography and its use and importance in the digital world.

The next speaker Sharma’s research work was on “Software reliability” where she explained about risks of faults. Mr. Tejinder Singh’s topic was on “Network Devices” and he discussed on Communication & Service Certifications which are CCIE, CCNP, CCIP, CCNA, etc.

The seventh speaker Meenu Kansal explained about “Soft Computing Techniques”. Her explanation area covered the many aspects of Fuzzy Logic, Swarm Intelligence, Evolutionary Computing and its many uses in the field of computer intelligence.

The last but not the least speaker of this plenary session Mr. Akshay Kumar’s topic was on “ROS”. Various types of Robots like Unstructured Robot, Multirobot, etc. and cloud Robotics were the contents of his presentation and the scope of research in these field.

Plenary Session III:

The third plenary session was chaired by Amit Asthana. The last session was started with the presentation of K. Sanjay on the topic “Wearable Navigation AID for blind person”. He narrated his idea on the same very nicely.

Sumit Mallik’s topic was on “Automated attendance system using face recognition”. Sumit described the process of marking attendance with the attendee’s face thereby providing security and avoiding proxy in a system.

Shivangi’s work was on “Android App on medical facility”. She emphasized on the idea of having apps on an android device which would facilitate people getting knowledge about symptoms and solution of problem diseases and to find nearest medical block.

The next presenters Dimple Uppal and Garima presented their work on “The Digital Economy”. They described the opportunities available in using digital technology and how it can generate jobs in the present digital economy. Next speaker Surbhi Jajodia’s topic was again on “Digital Economy” and she shared her ideas of digital economy in connection with online transactions. Ankit Bhardwaj’s topic was on “1G to 5G”. He narrated the evolving of technology from the first to the fifth generation and globalization of things.



Akash Kumar talked about “SDLC”. Speakers Mansi Goel and Ishita presented a paper on “HRM in the Digital Age” where they focus on management of HR in an efficient manner with the help of digitally available technologies.

Next speakers Brijbhushan & Manu Shree talked about “Encryption” and its importance in information security in the digital era when all the information are available in the network.

The eleventh speaker Kiran Patel’s topic was rather broad, i.e. on “Artificial Intelligence”. She described about the many application area of AI and summed up with Fuzzy Logic, neural network, genetic algorithm, etc. Next speaker Rachna’s topic was on “Big Data” which is very much in the digital scenario these days.

Presenters Vaishali, Akhila & Shreya, Khushboo & Chetna, Shivam Sharma, Palak & Vidisha, Rajul & Shiza, Juhi Tiwari, Rishabh & Pankaj also presented their work and studies on various fields related to the conference theme like Cloud Computing, Information Security in e-governance, Threats & Protection in IT, etc.

The conference ended with a note of remarks from Dr. Vishal Khatri, HOD, Department of MCA.



Dr. Ajay Kumar Rathore, Director, TIAS, addressing the students



Lamp Lightening Ceremony: Chief Guest Prof (Dr.) M. N. Doja, Dr. Sudhir Dawra, Conference Convener, Dr. Ajay Kumar, Director, TIAS



Prof (Dr.) M. N. Doja, HOD, Deptt. of Computer Engineering, Jamia Millia Islamia addressing the students

Students of TIAS along with Invited Speaker **Dr. Amit Asthana**, Subharti University



Dimple and Garima Uppal of TIAS presenting their paper



Surbhi Jarotia of TIAS presenting her paper

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Student of TIAS presenting his paper



Juhi Tiwari of TIAS presenting her paper



Dr. Vishal Khatri, HOD , MCA, Dr. Sudhir Dawra, Conference Convener, Dr. K.P. Yadav, Director, IIMT College, Prof(Dr.) M.N. Doja, Department of Computer Engineering , Jamia Millia Islamia , Amit Kukreti, Vice President , Startup India, Mr. M.N. Jha, MR System, TIAS. (From Left to Right)

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Dr. Sudhir Dawra, Conference Convener releasing the Digital Version of the Proceeding



Guest of Honour Prof. (Dr.) K. P. Yadav Greeting the External Candidate during Paper Presentation

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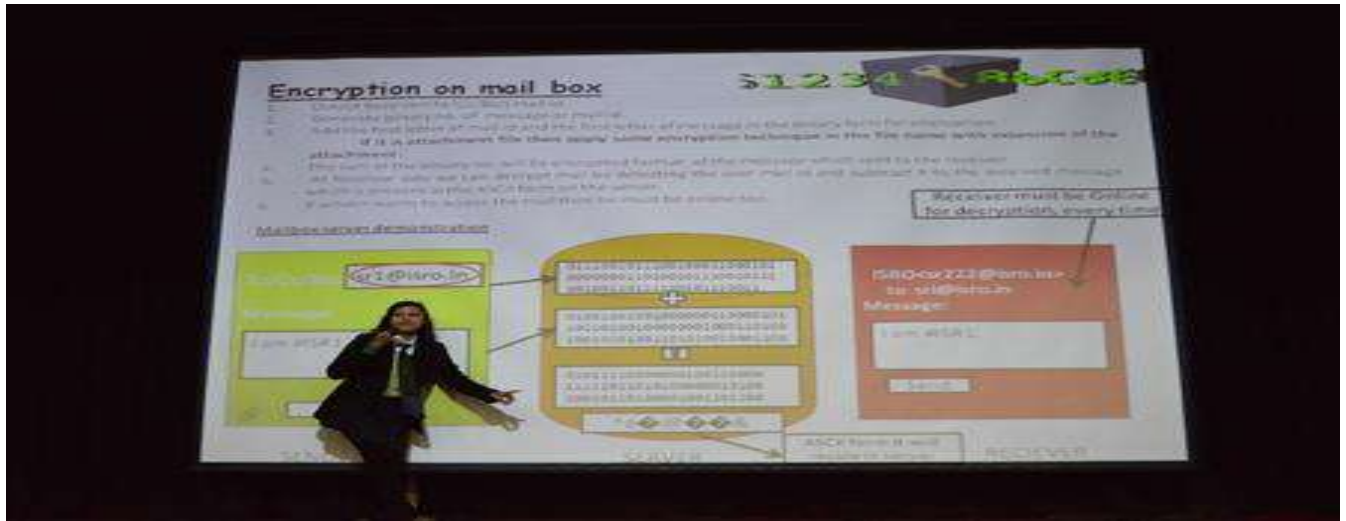
Dr. Sanjay Pachauri along with Divya Kalra (TIAS Faculty), Reshma(MGM Engineering College), Akshay Kumar (Rammana Corporation), Mani Sharma (MGM Engineering College) and Sachin Chaudhary (BIT, Muzzafarnagar)



Dr. Kanika Gupta and Divya Kalra, TIAS Faculty presenting their Paper during the conference



Dr. Meenakshi Sharma, Faculty, TIAS greeting the Guest of Honour Dr. Amit Asthana, Subharti University



Manushree student of TIAS presenting her paper



Dr. Ajay Kumar, Director, TIAS, releasing the Proceedings of the conference along with Dr. Sudhir Dawra, Conference Convener, Dr. Kamaljeet Kaur, BJMC Department, Dr. Vishal Khatri HOD-MCA, Dr. Meenakshi Sharma, MBA Department, Dr. Ajay Partap Singh, IQAC Head, Dr. Rashmi Gujrati (UG Head), Dr. Ajay Kumar, Prof. M.N. Jha, MR System, TIAS, Dr. Nidhi Gupta, HOD, BBA and Dr. Mani Manjari, HOD, BBA. (From Left to Right)

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