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**INTERNATIONAL CONFERENCE ON RECENT
INNOVATION IN MANAGEMENT, ENGINEERING,
SCIENCE AND TECHNOLOGY**

IEEE TECHNICAL SPONSORED CONFERENCE

ORGANIZED BY:



IEEE
UP SECTION (INDIA)



Rajshree Institute of Management & Technology

16th KM, NH-30, Pilibhit Road, Bareilly (U.P.) (India)

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**INTERNATIONAL CONFERENCE ON RECENT
INNOVATION IN MANAGEMENT, ENGINEERING,
SCIENCE AND TECHNOLOGY**

Editors

DR. ANIL KUMAR

DR. SAKET AGARWAL

Publish By:

A.R. Research Publication

Preface

Conference World and AR Research Publication is fast growing group of academicians in Engineering, Sciences and Management. AR Research Publication is also known for fast reply and zero error work. Conference world has organized a various conferences at renowned places namely Delhi University; New Delhi, Jawaharlal Nehru University; New Delhi, PHD Chamber of Commerce and Industry New Delhi, YMCA New Delhi, India International Centre New Delhi Sri Venkateswara college of Engineering and Technology, Andhra Pradesh, Dhananjay Mahadik Group of Institutions (BIMAT), Shivaji University, Maharashtra, Vedant Engineering Kota and many more places across the country.

We are very pleased to introduce the proceedings of the *International Conference on Recent Innovation in Management, Engineering, Science and Technology*. As for previous conferences, the theme was the link between the information provided by conference world and the use made of this information in assessing structural integrity. These were the issues addressed by the papers presented at the conference. The level of interest in the subject matter of the conference was maintained from previous events and over 164 suitable papers were submitted for presentation at the conference.

Papers were well represented in the conference to arouse a high level of international interest. Three countries were represented in the final program from Europe, North America and Asia. In the event, the conference was highly successful. The presented papers maintained the high promise suggested by the written abstracts and the program was chaired in a professional and efficient way by the session chairmen who were selected for their international standing in the subject. The number of delegates was also highly gratifying, showing the high level of international interest in the subject. This is also indicated by the large number of countries, 01 represented by the delegates. This Proceeding provides the permanent record of what was presented. They indicate the state of development at the time of writing of all aspects of this important topic and will be invaluable to all workers in the field for that reason. Finally, it is appropriate that we record our thanks to our fellow members of the Technical Organizing Committee for encouraging participation from those areas. We are also indebted to those who served as chairmen, without their support, the conference could not have been the success that it was. We also acknowledge the authors themselves, without whose expert input there would have been no conference. Their efforts made a great contribution to its success.

About Conference

International Conference on Recent Innovation in Management, Engineering, Science and Technology is a global event organized by Rajshree Institute of Management & Technology & Conference World. This conference provides an international forum for researchers, developers, engineers and practitioners who are involved in real time projects that provide solutions to exchange their valuable ideas and showcase the ongoing works which may lead to path breaking foundation of the futuristic engineering. It accentuates indispensability of interdisciplinary and cross - linked thinking with respect of innovation and market opportunities. All the accepted papers are published in International Journal with ISSN & Conference proceeding having ISBN without any additional fee.

About Rajshree

Rajshree Group of Institutions, Bareilly started its journey in 2009 to meet the ever -growing demand of education for industries. Rajshree Institute of Management & Technology (RIMT) is affiliated to Uttar Pradesh Technical University (UPTU), Lucknow, Board of Technical Education (BTE), Lucknow and Mahatma Jyotiba Phule Rohilkhand University, Bareilly (MJPRU) and is approved by All India Council for Technical Education (AICTE), Ministry of Human Resource Development (MHRD), and Government of India. Rajshree Educational Trust is the promoting body of Rajshree Group of Institutions. Rajshree Group offers undergraduates and post graduates programmes in different disciplines of Engineering, Management, Basic Sciences, Teaching & Science & Medicines and persistently seeks and adopts innovative methods to improve the quality of higher education .The philosophy of the group is to facilitate the students with healthy learning atmosphere to achieve both academic & professional excellence. With this philosophy, Rajshree Institute presently offers the following programmes.

Hon'ble Vice Chancellor, AKTU Lucknow ...

प्रो० विनय कुमार पाठक
कुलपति
Prof. Vinay Kumar Pathak
Vice-Chancellor



डॉ० ए०पी०जे० अब्दुल कलाम प्राविधिक विश्वविद्यालय
उत्तर प्रदेश, लखनऊ
Dr. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY
Uttar Pradesh, Lucknow



Dated : 10.01.2018

MESSAGE

I am pleased to know that Rajshree Institute of Management & Technology, Bareilly is organizing International Conference association with IEEE U.P. Section and Conference Word on "**Recent Innovation through Management, Engineering, Science and Technology (RIMEST2018)**" on January 28-29, 2018. I am pleased to write this message which will be included in the Proceedings of the conference.

The topics to be covered in this International Conference are comprehensive and will be adequate for developing and understanding about new developments and emerging trends in this area. I hope the goal of the conference is to update the knowledge of teachers, young researchers, research scholars and PG students. I shall be glad to receive a path forward drawn from this conference.

I congratulate the organizers for taking this initiative and extend my best wishes for the successful conduction of event.


(Prof. Vinay Kumar Pathak)
Vice Chancellor

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Hon'ble Vice Chancellor, MJPRU, Bareilly

प्रो. अनिल शुकल
Prof. Anil Shukla
कुलपति
Vice-Chancellor



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MAHATMA JYOTIBAPHULE ROHILKHAND UNIVERSITY
BAREILLY - 243 006



Date: 24-01-2018

Message

It is a matter of great pleasure that Rajshree Institute of Management & Technology, Bareilly is organizing an international conference on "*Recent Innovation through Management, Engineering, Science and technology (RIMEST2018)*" at Institute Campus in association with IEEE U.P. Section and Conference World on January 28-29, 2018.

I understand that many experts from elite institutions all over the world will discuss on recent innovations through Management, Engineering, Science and Technology.

I wish the conference a great success.

(Anil Shukla)

Prof. Anil Kumar
Director (Academics),
Rajshree Institute of Management & Technology,
Bareilly

Chief Guest Message

प्रो० श्याम बिहारी लाल
विधायक
122 - विधानसभा फरीदपुर, बरेली
कार्यालय : मो० फरखपुर, फरीदपुर - बरेली।
मोबाईल : 09412287816, 9719816500



प-5 N° 461893

दिनांक 27.01.2018

शुभकामना संदेश

मुझे यह जानकर अत्यन्त प्रसन्नता हुई है कि राजश्री इंस्टीट्यूट ऑफ मैनेजमेंट एण्ड टेक्नोलॉजी में इंटरनेशनल कॉन्फ्रेंस ऑन रीसिन्ट इनोवेशन इन मैनेजमेंट, इंजीनियरिंग, साइंस एण्ड टेक्नोलॉजी विषय पर अंतर्राष्ट्रीय सेमिनार आयोजित कर रहा है। उक्त सेमिनार सफल हो इसके लिए मेरी हार्दिक शुभकामनाएँ हैं।

प्रो० (श्याम बिहारी लाल)

आवास : 86-87 'बी' ब्लॉक पुराना दारुलशफा, लखनऊ

International Guest Message

I will like to appreciate the organizers of this conference and management of Rajshree Institute of Management & Technology for inviting me as one of the guest speakers in this international conference. This is an opportunity for me to share my ideas with fellow colleagues and the team of researchers that came from different places of the world.

This conference is a multidisciplinary conference that touches almost every discipline. As human being, we cannot do without engineering, science, technology or management. Conducting conference on recent innovations in these areas will surely bring development in our respective communities.

I strongly believed that our teaming researchers will do justice to the conference topics by sharing their researches and ideas with us in this gathering.

However, I will like to give highlights on some of the recent innovations that is happening within the globe especially in the area of intelligent computing, cyber security and cloud computing. This will be in-line with MIT Review Breakthrough technology for the year 2017.

REVERSING PARALYSIS TECHNOLOGY

Scientists are making remarkable progress at using brain implants to restore the freedom of movement that spinal cord injuries take away. They are hoping to reverse the paralysis caused by spinal cord injuries using modern technology that will make the paralyzed persons to walk again.

Gregoire Courtine, a French neuroscientist is developing revolutionary technology that will connect part of the brain that controls movement to the spinal cord. The original experiment of this technology was conducted on a partially paralyzed monkey. The results were hopeful because, the chip interpreted the monkey's intention to move and the paralyzed leg began to extend and flex. From there, the monkey was able walk.

After seeing it was successful on the monkey, researchers wanted to test the process on a human subject. Then a quadriplegic patient (a person that is unable to move anything below his shoulders) volunteered for the experiments. The doctors put two recording implants into the man's brain as well as several electrodes into his arm and hand. Thereafter, he was able to slowly raise and lower his arm while clenching and releasing his hand.

SELF-DRIVING TRUCKS

As we know technological advancement has brought changes and innovations in the driving sector where we have driverless cars operating in some of the part of the world. Today, new innovations are emerging to equally have long trucks and trailers to also drive themselves without having a driver.

Otto is a company founded in the early 2016 at San Francisco, they innovated a technology to make trucks drive themselves and tested it on seven (7) trucks. Although, there are many technical problems that are still unresolved, but proponents claim shows that self-driving trucks will be safer and less costly. During the self-driving test, Mr. Greg Murphy who is a professional truck driver for over 40 years says "the system often drives better than I do". He was attached to the truck to serve as safety backup driver during the tests.

PAY WITH YOUR FACE

There are many forms of making financial transactions nowadays. People make payment using credit or debit cards, mobile and internet banking. They make use of login parameters like pin in completing the transactions. Now, new innovation has come where you can make payment using your face. A startup valued company in china called Face++ developed this system of face recognition that added people's face to the database, this automatically grant them access to the building as well as to monitor their movements through each room of the building.

The Face++ technology is already in used in several business apps. A mobile payment app called Alipay uses this technology, you can transfer money through Alipay using only your face as credentials.

Facial recognition existed for many decades but it is only now that is used in secure financial transactions. It uses deep learning and artificial intelligent technique that is especially effective for image recognition.

HOT SOLAR CELL

Solar panels cover a growing number of rooftops, but even decades after they were developed, the slabs of silicon remain bulky, expensive, and inefficient. Fundamental limitations prevent this conventional photovoltaics from absorbing more than a fraction of the energy in sunlight.

However, a team of MIT scientists has built a different sort of solar energy device that uses inventive engineering and advances in materials science to capture more of the sun's energy. This is done by turning sunlight into heat and then convert it back to light. The device absorbs more energy that its photovoltaic cell alone.

The researchers are also exploring ways to take advantage of strength of solar thermo photovoltaics. This is because, heat is easier to store than electricity. It should be possible to divert excess amount generated by the device to a thermal storage system which can then be used in producing electricity even when the sun is not shining. Other areas pointed out include reinforcement learning, Gene therapy technology and botnets of things.

MANAGEMENT

Innovation is a necessary prerequisite for the continued survival and development of enterprises. Therefore, the most direct way of innovations in management falls through technological innovations and social innovations. These plays a significant role in promoting business and institutional strategies. The technological innovations bring so many automation and electronic platform in the area of management. While social innovations deal with organizational change which consists of globalization, diversity and flexibility.

CONCLUSION

My respected senior colleagues at the high table and fellow researchers seated, time will not permit me to exhaust everything on the recent innovations across these topics. The essence of this discussion is to point out some of these innovations to our researchers so that they can come up with new research areas. I believe we can also learn more from the participants at the end of this conference.

Finally, my deep and sincere appreciation goes to the Conference world, management of Rajshree Institute of Management & Technology, IEEE, organizers, as well as the entire researchers presently at this conference for sharing your views and ideas.

Thank you all.

Mr. Abubakar Mohammed

Dept. of Information Technology

ModibboAdama University of Technology Yola, Nigeria.



Founder President Message

It is a pleasure to know that Rajshree Institute of Management & Technology Bareilly is organizing International Conference on Recent Innovation in Management, Engineering, Science & Technology, Bareilly on January 28-29, 2018. I appreciate the initiatives of the Institute and I am sure, such efforts would go a long way in creating an academic environment in the interest of present and future generations. I hope that this conference will provide a common platform for academicians, corporate executives, research scholars and students to share their knowledge and experiences. I am sure that contents of this proceeding will provide useful information to the readers. I convey my personal felicitations to all the participants. I express my best wishes for the success of the conference.

Rakesh Kumar Agarwal
Founder President
Rajshree Group of Institutions Bareilly



Chairman Message

It is indeed a delightful occasion that Rajshree Institute of Management & Technology Bareilly is organizing International Conference on Recent Innovation in Management, Engineering, Science & Technology, Bareilly on January 28-29, 2018. I also take this opportunity to extend my warm welcome to all distinguished guests, resource persons and delegates participating in the conference. I am sure that all the participants will be benefited and encouraged to contribute in near future also. I wish that Rajshree Institute continues to strive for excellence with high spirits and I extend my whole hearted support to the Institute for organizing successful conference. I bless all the students, staff for a brilliant success in all their endeavours.

Rajendra Kumar Agarwal
Chairman
Rajshree Group of Institutions Bareilly



Vice Chairperson Message

Innovation can be defined simply as a "new idea, device or method". However, innovation is also viewed as the application of better solutions that meet new requirements, unarticulated needs, or existing market needs. It is also a process of translating an idea or invention into a good or service that creates value to the society. It is really matter of immense pleasure for me that Rajshree Institute of Management & Technology Bareilly is organizing International Conference on Recent Innovation in Management, Engineering, Science& Technology. I take this occasion to accolade the academic and administrative staff of the Institution and express my best wishes to them for all the future undertakings. I extend my warmest wishes to all the participants and all members of the Institute. I am sure that it will continue to maintain its excellence and character with great distinction. I hope that the conference will provide the participants an opportunity to exchange their views and to formulate a comprehensive strategy in the concerned field. I trust that the conference proceeding will prove to be an effective instrument to present the vision of the conference and it will be successful in achieving its objectives. I wish grand success of the conference.

Dr. Monika Agarwal
Vice Chairperson
Rajshree Group of Institutions Bareilly



Academic Advisor

We are in an age of enormous change in business and industry. Change can be a source of opportunities for business. It can also threaten an organization's survival. Today's king is not guaranteed to be tomorrow's emperor. Most of the firms that dominated the old order usually disappear, replaced by new players operating in new relationships under new rules. There is no magic formula for success. The question we face is how to find the opportunity in changing environment and thus survive. The answer is "innovation". Innovation involves deliberate application of information, imagination and initiative in deriving greater or different values from resources, and includes all processes by which new ideas are generated and converted into useful products. International Conference on Recent Innovation in Management, Engineering, Science & Technology to be organize by Rajshree Institute of Management & Technology Bareilly is an interdisciplinary conference and seeks to understand some of the opportunities and challenges in developing innovative strategies through engineering, science and technologies. I thank you all for the participation in this conference. I am grateful to all the contributors, media, government officials, participating colleges and institutions for their kind support and encouragement provided by them to achieve the objectives of this conference.

Tulika Agarwal
Academic Advisor
Rajshree Group of Institutions, Bareilly

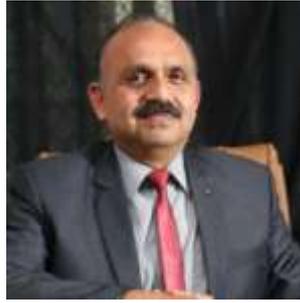


Director Message

The RIMT campus is always abuzz with a plethora of activities and has become a dynamic venue where brilliant minds share their knowledge and skills. It is a great pleasure for me that Rajshree Institute is organizing **International Conference on recent innovation in management, engineering, science and technology (RIMEST 2018)** on January 28-29, 2018 as a part of our vision to incorporate relevance and symbiosis in technical education. The purpose of this conference is to bring together researchers, experts from industry, academia, and other interested organizations to meet, exchange information and share their ideas. I am looking forward to the technological innovations that result from your networking and discussions. I hope that this conference would surely induce modern ideas among the participants paving way for new inventions in interdisciplinary fields.

Wish you all a memorable time at RIMEST2018

Prof. (Dr.) Anil Kumar
Director (Academics)



Dean Message

We are a nation of extraordinary innovators and entrepreneurs. The last few years have presented some of the most challenging times in the modern and dynamic business world. Today's cut-throat competitive environment requires new levels of innovation to drive the growth of the organizations. Innovation is and remains a priority for most businesses. For decades, India has been at the forefront of innovation, made possible by powerful and productive collaboration among Government, Industries, Universities and Colleges to educate the high-skilled workforce and to conduct the scientific research and generate the discoveries that define our way of life and work. However, unlike a lot of existing business processes, innovation is still in its infancy as a process and thus is dependent on people rather than systems or metrics to drive it forward. It is a great pleasure for me that Rajshree Institute of Management & Technology Bareilly is organizing International Conference on Recent Innovation in Management, Engineering, Science & Technology. I am sure that the delegates will present research papers of high standard and have meaningful discussion and hope that the conference would prove useful to the participants in bringing out new ideas and knowledge on recent innovations. I wish the conference all success and extend my thanks to the hard work of numerous colleagues who made this endeavor possible.

Prof. (Dr.) Saket Agarwal
Dean (Academics)
Rajshree Institute of Management & Technology, Bareilly

International Conference on Recent Innovation in Management, Engineering, Science and Technology (28th & 29th Jan 2018)

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Director (Academics), Rajshree Institute of Management & Technology, Bareilly
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Guests List

<p>Prof. (Dr.) Shyam Bihari Lal M.J.P. Rohilkhand University, Bareilly, MLA Faridpur</p>	Chief Guest	Jan 28, 2018
<p>Prof. (Dr.) Badar Alam Iqbal Executive Editor (JRGE) Scopus Journal Special Advisor (TNCR), Taylor and Francis, UK Adjunct Professor, School of Economics and Finance Monarch University, Zug (Switzerland) Visiting Emeritus Professor CBA (IUBAT), Former Fulbright Visiting Professor, USA Former Ford Foundation Grantee, USA, Former Officiating Vice-Chancellor AMU</p>	Guest of Honour	Jan 28, 2018
<p>Prof. Abubakar Mohammed Department of Information Technology, Modibbo Adama University of Technology, Yola Nigeria, Adamawa State</p>	Guest of Honour	Jan 28, 2018
<p>Ms. Aishatu Abdullahi Adamu ModibboAdama University of Technology, YolaNigeria,Adamawa State</p>	Invited Speaker	Jan 28, 2018
<p>Dr. Rizwan Ahmad Khan Associate Professor Department of Civil Engineering Aligarh Muslim University, Aligarh</p>	Invited Speaker	Jan 28, 2018

Prof. (Dr.) N. P. Melkania Director School of Vocational Studies & Applied Sciences Gautam Buddha University, Greater Noida	Invited Speaker	Jan 28-29, 2018
Prof. (Dr.) Asseem Chandel Dean (Academics) Student Activity Convener IEEE UP Section Rajkiya Engineering College, Mainpuri (U.P.)	Invited Speaker	Jan 29, 2018
Prof. (Dr.) Dilip Sharma Secretary IEEE UP Section Dept. of Computer Eng.& Application, GLA University, Mathura (U.P.)	Invited Speaker	Jan 29, 2018
Prof. (Dr.) Vinay Rishiwal Member of IEEE U.P. Section Dept. of Computer Science & Eng.MJP Rohilkhand University, Bareilly (U.P.)	Invited Speaker	Jan 29, 2018

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