MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

TECH SAGA

The newsletter of CSE & IT department

Contents-

- ➢ Faculty Outreach
- ➢ Infosys Faculty Enablement Programs
- ➢ Research Publications
- ➢ Book Chapter
- ➢ Student Activities and Achievements
- ➢ Dept. Activities and Events
- ➢ Latest Technologies

Editorial board -

Faculty Members -
- Prof. Amit Kumar, Assistant Professor, Dept. of CSE & IT
- Prof. Punit K. Johari, Assistant Professor, Dept. of CSE & IT

Student Members -
- Sparsh Verma, CSE final year, Department of CSE & IT
- Sonali Bansal, CSE final year, Department of CSE & IT

CONTACT: mitsgwalior.in

" In attaining our ideals, our means should be as pure as the end! "

– Dr. Rajendra Prasad

FACULTY OUTREACH

1. **Dr. Manish Dixit**, Associate Professor, Dept of CSE & IT, Attended three days International conference on Communication Systems and Network Technologies at IIIT Nagpur, 11-13 Nov 2017.

2. **Sanjiv Sharma**, Attended and member of "Industry Conclave", organized at MITS Gwalior, 12-13 Nov-2017.

3. **Prof. Jamvant Singh Kumare, Assistant Professor CSE & IT department,** Attended five days workshop on Foundation course on **Human Values & Professional Ethics under Teacher Training Induction Program NPIU, New Delhi, AICTE** from 18-22 December 2017.

4. **Dr. Sanjiv Sharma**, Attended and member of "Industry Conclave", organized at MITS Gwalior, 12-13 Nov-2017.

5. **Dr. Manish Dixit**, Associate Professor,Dept of CSE & IT is elevated to Fellow member of Institute of Electronics and Telecommunication Engineers(IETE).

6. **Prof. Dheeraj Gurjar, Assistant Professor CSE & IT department,** Attended five days Faculty Induction Workshop , IIT Hyderabad, 25-29 January 2018.

7. **Prof. Namrata Agarwal, Assistant Professor CSE & IT department,** Attended five days Faculty Induction Workshop , IIT Hyderabad, 25-29 January 2018.

8. **Prof. Jaimala Jha, Assistant Professor CSE & IT department,** Attended two days Accenture Learning Symposium Workshop On "Deep Learning" And "Devops, Amity Noida, 19-20 Feb 2018.

9. **Dr. Manish Dixit**, Associate Professor,Dept of CSE & IT Attended five days FDP Modeling Simulation And Implementation Using MATLAB, Tehri Uttarakhand, 31 Jan-4 Feb2018.

10. **Prof. Rajeev Kumar Singh**, **Assistant Professor CSE & IT department,** Attended two days Accenture Learning Symposium Workshop On "Deep Learning" And "Devops, Amity Noida, 19-20 Feb 2018.

11. **Dr. Manish Dixit**, Associate Professor,Dept of CSE & IT**,** Attended two days workshop on Effective Technique of Question Paper Setting: An Outcome Based Education Approach at MITS Gwalior, 7-8 Feb2018.

12. **Prof. Abhilash Sonker**, Assistant **Professor CSE & IT department,** Attended two days Accenture Learning Symposium Workshop On "Deep Learning" And "DevOps, Amity Noida, 19-20 Feb 2018

13. **Dr. Sanjiv Sharma**, **Assistant** Professor,Dept of CSE & IT**,** Attended two days workshop on Effective Technique of Question Paper Setting: An Outcome Based Education Approach at MITS Gwalior, 7-8 Feb2018.

14. **Dr. Sanjiv Sharma**, **Assistant Professor CSE & IT department,** Attended two days workshop on Effective Technique of Question Paper Setting: An Outcome Based Education Approach at MITS Gwalior, 7-8 Feb2018.

INFOSYS FACULTY ENABLEMENT PROGRAM

Prof. Rajeev Kumar Singh & Prof. Amit Kumar Manjhwar, have attended Infosys Faculty Enablement Program on UI Technologies schedule from 29th Jan'18 to 3rd Feb'18 at Acharya Institute of Technology, Bangalore.

RESEARCH PUBLICATIONS

- **Vikas Sejwar, Shivangi Agrawal** *"Frequent Pattern Model for Crime Recognition"* International Journal of Computational Intelligence Research ISSN 0973-1873 Volume 13, Number 6 (2017), pp. 1405-1417.
- **Gaurav Jain, Vikas Sejwar** *"Improving the Security by using Various Cryptographic Techniques in Cloud Computing"* International Conference on Intelligent Computing and Control Systems, 978-1-5386-2745-7/2017 IEEE pp 23-28.
- **Vikas Sejwar, Monika Gautam** *"A brief review of WSN energy and routing protocols"* 2017 International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC) , IEEE: 05 Oct 2017.
- **Shikha Pathak, Vikas Sejwar** *"Optimized Noisy Image Segmentation Using Genetic Algorithm"* International Conference on Intelligent Computing and Control Systems, 978-1-5386-2745-7/2017 IEEE pp 23-28.

BOOK CHAPTER

Rajeev Kumar Singh, Suchitra Agrawal, Dr. U.P. Singh, "**Intelligent Image Retrieval via Deep Learning Techniques" Deep Learning for Image Processing Applications"** D.J. Hemanth and V.V. Estrela (Eds.) IOS Press, 2017, doi:10.3233/978-1-61499-822-8-68.

STUDENT ACTIVITIES & ACHIEVEMENTS

On foundation day of institute 14 November 2017, **Director MITS appreciated** IEEE Student chapter activities and awarded certificate of appreciation to **Dr. Manish Dixit**, **Faculty coordinator of IEEE Student chapter and Secretary IEEE MP Subsection**. **Student coordinators** were also awarded.

Student Achievements and participation in extra curricular activities

Ankur Agarwal	Attended workshop on "Internet of things" Participated in guest lecture series organized by IEEE MANIT student branch

Kanupriya Gathoria	Certificate of Appreciation for social effort by Swapnil Foundation
Nitin Rajput	Participated in workshop on "Web and Blog Development"
Rachna Patel	Recognition as player/official in Nodal level Badminton Competition
Komal Kamtaria	Participated in HACKTECH workshop on "cyber crime investigation"

EVENTS & ACTIVITIES IN THE DEPARTMENT

Expert Talk

An expert talk of Dr. Rajkumar Buyya was organised by Dr. Manish Dixit, Faculty coordinator of IEEE Student chapter MITS and Secretary IEEE MP Subsection on 2nd Nov 2017 in MITS. Dr. Manish Dixit introduced the speaker and discussed about opportunities and challenges in Research and presented a brief about how IEEE provide platform to the researchers.
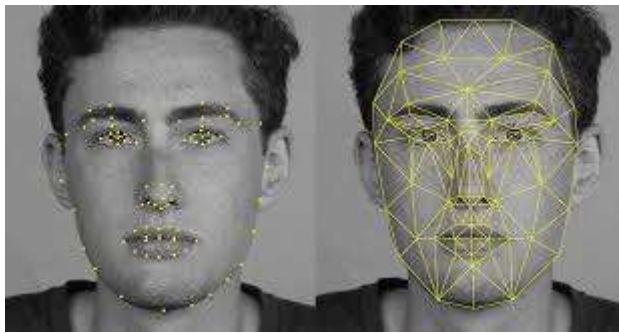
Dr. Rajkumar Buyya is a Fellow of IEEE, Professor of Computer Science and Software Engineering and Director of the Cloud Computing and Distributed Systems (CLOUDS) Laboratory at the **University of Melbourne, Australia.**

Paying With Your Face

Facial recognition has existed for decades, but only now is it accurate enough to be used in secure financial transactions. The new versions use deep learning, an artificial-intelligence technique that is especially effective for image recognition because it makes a computer zero in on the facial features that will most reliably identify a person.

3D Metal Printing

Now printers can make metal objects quickly and cheaply. The ability to make large and complex metal -objects on demand could transform manufacturing.

In the short term, manufacturers wouldn't need to maintain large inventories—they could simply print an object, such as a replacement part for an aging car, whenever someone needs it. In the longer term, large factories that mass-produce a limited range of parts might be replaced by smaller ones that make a wider variety, adapting to customers' changing needs.

The technology can create lighter, stronger parts, and complex shapes that aren't possible with conventional metal fabrication methods.