

MOONLIT



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MATRUSRI ENGINEERING COLLEGE
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Vision

- The Computer Science and Engineering Department aims to produce competent professionals with strong analytical skills, technical skills, research aptitude and ethical values

Mission

- To provide hands-on-experience and problem-solving skills by imparting quality education.
- To conduct skill-development programs in emerging technologies to serve the needs of industry, society and scientific community.
- To promote comprehensive education and professional development for effective teaching-learning processes.
- To impart project management skills with an attitude for life-long learning with ethical values



Word from Head of the Department



MESSAGE FROM THE HEAD
G. VEERESHALINGAM
 Professor,
 MTech (IIT Delhi), (Ph.D.)

"Combine Computing power
 with passion."

The CSE department is publishing its newsletter 'Moonlit' in this academic year as well. I am elated to pen this message for the newsletter pertaining to 2016-17. The team behind this publication needs to be lauded highly for continuing their efforts in showcasing the technical talents of the students and the faculty. I wish to congratulate one and all who make the association vibrant and visible.

This is indeed a model to be emulated by other associations in the institute. I am sure as in the previous years the newsletter will report the latest news happening in the department of computer science and engineering and encourage both the students and faculty to make themselves noticed by the fellow professionals.

Word from the Faculty



Dr. P. VIJAYA PAL REDDY
 Professor,
 MTech, Ph.D.

"Machines are dumb. So, we are
 trying to make them less dumb."

I subscribe to the belief that "one must find meaning in one's daily work". The best work happens when you know that it is not just a work, but something that will improve other people's lives. This is a guiding principle that catalyzes and drives each one of us at the CSE department!

- ❖ "Convolution Neural Networks for Text Categorization Using Concept Generation", Journal of Chemical and Pharmaceutical Sciences, JCHPS Special Issue 10: December 2016. - scopus indexed
- ❖ "Hybrid Approach for Message polarity and Topic based message polarity Sentiment classification", International Journal of Technology and Engineering Science, Issue 6-Volume 3-Series 2, October,2016
- ❖ "A Mixed Approach for Data and Sentiment Analysis on Twitter", international Journal of Advanced Research in Computer and Communication Engineering , Vol. 5, Issue 6, June 2016
- ❖ "A Survey on Authorship Profiling Techniques", International Journal of Applied Engineering Research, Volume 11, Number 5 (2016) pp 3092-3102.

Word from the Faculty



Dr. G. SHYAMA CHANDRA PRASAD
Associate Professor
MTech, Ph.D.

"Life is a box of neural networks, you never know what you are going to get"

Humans lack efficiency, computer lack intelligence, we need to combine both to create a perfect system. Currently we have two worlds one is physical world in which we live in and other is digital world where we try to replicate every event occurred in the physical world in digital world.

- ❖ "Secure Cryptosystem Based on Non-Deterministic Linear Transformation", International Journal of Technology, ISSN: 0975-766X, Issue- August 2016.
- ❖ "Literature Survey to Improve Image Retrieval Efficiency by Visual attention Model", The third international conference on information system design and intelligence Applications(INDIA 2016)", Organized by Anil NeeruKonda Institute of Technology and sciences
- ❖ "Randomized Cryptosystem Based on Linear Transformation", The third international conference on information system design and intelligence Applications(INDIA 2016)", Organized by Anil NeeruKonda Institute of Technology and sciences
- ❖ "Secure Cryptosystem Based on Non-Deterministic Linear Transformation" International Journal of Technology ISSN: 0975-766X Aug 2016

Word from the Faculty



Dr. K. Sunil Manohar Reddy
Assistant Professor
MTech, Ph.D.

"That an engineer need only be pragmatic and not whimsical is a misconception."

Well, writing novels is incredibly simple: an author sits down...and writes Granted, most writers I know are a bit strange. Some, downright weird. But then again, you'd have to be. To spend hundreds and hundreds of hours sitting in front of a computer screen staring at lines of information is pretty tedious. More like a computer programmer. And no matter how cool the Matrix made looking at code seem computer programmers are even weirder than authors.

- ❖ "Neural Network Classification Of Diesel Spray Images " in3rd National Conference on "Computational Intelligence, Computing & Networks" (NCCICN-2016) on 12/11/16



Mrs. B.Sujatha
Assistant Professor
MTech, (Ph. D)

- ❖ "Proper Use of Multimedia Technology in Higher Education" in International Conference on Research Challenges in Engineering and Technology (ICRCET-16)on 18th - 19th August 2016 in Tirupati.
- ❖ "Intrusion Detection Using Efficient Swarm Intelligence" in International Conference on Research Challenges in Engineering and Technology (ICRCET-16)on 18th - 19th August 2016 in Tirupati.

List of Workshops/ Seminars/Conferences attended by faculty

G. Veereshalingam
Professor

- ❖ **Quality Initiatives In Outcome Based Technical Education-NBA**, from 18-12-2016 to 18-12-2016 Osmania University, Hyd

Dr. P. Vijayapal Reddy
Professor

- ❖ **Quality Initiatives In Outcome Based Technical Education-NBA** 18-12-2016 Osmania University, Hyd.
- ❖ **INTEL HPC DEVCON-2016** from 16-12-2016 to 17-12-2016 HICC, Hotel Novotel, Hyd.
- ❖ **CISCO Networking Academy It Essentials Certification** Nov, 2016, Online

Dr. G. Shyama Chandra Prasad
Associate Professor

- ❖ **Recent Trends in Network Security with Hands on using-NS3** from 19-12-2016 to 24-12-2016 MVSREC, Hyderabad.
- ❖ **Database Design and Programming with SQL** from 21-11-2016 to 25-11-2016 GRIET, Hyderabad.
- ❖ **CISCO Networking Academy It Essentials Certification**, 29-11-2016 Online

M. Dyna
Assistant Professor

- ❖ **FDP on Machine Learning-Recent Trends and Applications** from 21-11-2016 to 26-11-2016 GNITS, Hyderabad.

List of Workshops/ Seminars/Conferences attended by faculty

B.Deepika
Assistant Professor

- ❖ **CISCO Networking Academy It Essentials Certification**, Nov, 2016, Online

J. Samatha
Assistant Professor

- ❖ **FDP on Real time Embedded Systems, IoT and its applications** from 5-12-2016 to 10-12-2016 Vardhaman College of Engg., Hyd.
- ❖ **Big data Analytics** from 21-12-2016 to 23-12-2016 at CVR College of Engg., Hyd.
- ❖ **Cisco Networking Academy It Essentials Certification** Nov, 2016 Online

K. Bhagyalaxmi
Assistant Professor

- ❖ **FDP on Real time Embedded Systems, IoT and its applications** 5-12-2016 10-12-2016 Vardhaman College of Engg., Hyd.
- ❖ **Cisco Networking Academy It Essentials Certification** Nov, 2016 Online

G. Prathibha Assistant Professor

- ❖ **Cisco Networking Academy It Essentials Certification** Dec, 2016 Online.
- ❖ **Classification Intrusion Detection System and its Methodologies International: ICR CET-16**, at SIETK, Puttur, A.P. 18th & 19th August, 2016
- ❖ **A Novel Approach in Lexemes of Natural Language** NCEITCS-2016, 11th & 12th April, 2016 at Vasavi College of Engg., Hyd.

List of Workshops/ Seminars/Conferences attended by faculty

A.V. Muralikrishna
Assistant Professor

- ❖ Cisco Networking Academy It Essentials Certification Nov, 2016 Online

Mr. Vinay Kumar
Assistant Professor

- ❖ Cisco Networking Academy It Essentials Certification Nov, 2016 Online

K. Sunil Manohar Reddy
Assistant Professor

- ❖ FDP on Machine Learning-Recent Trends and Applications from 21-11-2016 to 26-11-2016 GNITS, Hyderabad.
- ❖ Analysis of Mutation and Cross over in Evolutionary neural networks NCEITCS-2016, 11th & 12th April, 2016 at Vasavi College of Engg., Hyd.
- ❖ CISCO Networking Academy It Essentials Certification Nov, 2016 Online
- ❖ National Conference on “Computational Intelligence, Computing & Networks” from 12-11-2016 to 12-11-2016 Malla Reddy Engg. College, Hyd.

K. Vikram Reddy
Assistant Professor

- ❖ Database Design and Programming with SQL 21-11-2016 25-11-2016 GRIET, Hyderabad.
- ❖ CISCO Networking Academy It Essentials Certification 29-11-2016 Online

List of Workshops/ Seminars/Conferences attended by faculty

L. Raghavendar Raju
Assistant Professor

- ❖ Security and Privacy Issues of IoTs: A Survey NCCNIS-2016, 6th & 7th April, 2016. at Vasavi College of Engg., Hyd.
- ❖ A Survey on Routing Protocols and QoS in Mobile Ad Hoc Networks International: ICR CET-16, at SIETK, Puttur, A.P. 18th & 19th August, 2016
- ❖ CISCO Networking Academy It Essentials Certification on 5-12-2016 Online
- ❖ Recent Trends in Network Security with Hands on using-NS3 from 19-12-2016 to 24-12-2016 at MVSREC, Hyderabad.

P. Ravindra
Assistant Professor

- ❖ CISCO Networking Academy It Essentials Certification 5-12-2016, Online

M. Priyanka
Assistant Professor

- ❖ Big Data Analytics from 21-12-2016 to 23-12-2016 at CVR College of Engg., Hyd.
- ❖ FDP on Machine Learning-Recent Trends and Applications from 21-11-2016 to 26-11-2016 at GNITS, Hyderabad.
- ❖ CISCO Networking Academy It Essentials Certification Nov, 2016, Online

V. Chandra Shekar
Assistant Professor

- ❖ INTEL HPC DEVCON-2016 from 16-12-2016 to 17-12-2016 at HICC, Hotel Novotel, Hyd.

List of Workshops/ Seminars/Conferences attended by faculty

M. Praveen Kumar
Assistant Professor

- ❖ **FDP on Machine Learning-Recent Trends and Applications** from 21-11-2016 to 26-11-2016 at GNITS, Hyderabad.
- ❖ **CISCO Networking Academy It Essentials Certification** on Nov, 2016 Online

B. Sujata
Assistant Professor

- ❖ **Teacher Effectives Workshop for Women Teachers** from 21-10-2016 to 22-10-2016 at TASK office, Hyderabad
- ❖ **CISCO Networking Academy It Essentials Certification** Nov, 2016, Online
- ❖ **Technical Communication for Scientists and Engineers** from 7-7-2016 to 15-11-2016 Online, IIT Bombay

T. Aruna Jyothi
Assistant Professor

- ❖ **Big Data Analytics** from 21-12-2016 to 23-12-2016 at CVR College of Engg., Hyd.

A. Pramod Kumar
Assistant Professor

- ❖ **Recent Trends in Network Security with Hands on using-NS3** from 19-12-2016 to 24-12-2016 at MVSREC, Hyderabad.
- ❖ **Database Design and Programming with SQL** from 21-11-2016 to 25-11-2016 at GRIET, Hyderabad.
- ❖ **CISCO Networking Academy It Essentials Certification** 29-11-2016, Online

Library

- ✓ The Library is computerized and computerized services are provided to its readers.
- ✓ It is fully equipped with necessary infrastructure, manpower to provide improved Library services to the users.
- ✓ It is maintained by well - versed and fully qualified staff. They are fully conversant with the holdings of the section and also, they are fully acquainted with the reference materials available in the reference section. They guide the readers to find out the requisite materials and they also provide requisite information efficiently.
- ✓ The Library is a consortium of technical journals.
- ✓ It provides
 - American Society of Civil Engineers (ASCE)
 - American Society of Mechanical Engineers (ASME)
 - Association of Computing Machinery (ACM)
 - Institute of Educational Leadership (IEL)
 - Institute of Electrical and Electronics Engineers (IEEE)
- ✓ and other foreign journals articles to Member Libraries as and when required



Technical Write ups by Students

Sentiment Analysis for Telugu Script

To the outside observer, Natural Language Processing (NLP) may seem futuristic. Only around a third of smartphone owners use their personal assistants regularly (a hallmark of NLP technologies), even though 95 percent have tried them at some point, according to Creative Strategies, a consultancy. However, Natural Language Processing advances continue in leaps and bounds, as Digital Neural Networks (DNN) and Machine Learning become more intricate. Both technologies enhance NLP technologies up to 30 percent.

The *Economist* states, that this paradigm has shifted language technology from usable at a pinch to really rather good". So, when Barclays, a British bank, offered an identification using a user's voice and NLP, 84 percent of the users signed up within five months, indicating that consumers are jumping on the bandwagon and wanting more benefits from NLP.

Natural Language Processing (NLP) has entered the mainstream and integrates with Big Data. Take the business traveler. Today, when he or she stays at a hotel, like Wynn Las Vegas, the customer can bypass the front desk when getting extra towels or ordering room service. Thanks to Amazon's Echo and its use of NLP, a hotel concierge may no longer be necessary. In this new world, Big Data flows in the form of speech, a loop between hotel guest and computer. All the guests have access to this technology. Wynn Las Vegas has already added Amazon Echo devices to each of its 4,748 hotel rooms. As consumers become more familiar with NLP and its time savings benefits, they will be more likely to adopt Natural Language Processing in the home and office, for other tasks.

What does NLP mean for Big Data? NLP will change everything, from Business Reporting and Data Analytics/Synthesis to Security and Data Governance. The future has arrived.

Ch.Abhilash Reddy
CSE II/IV

Technical Write ups by Students

Augmented Reality

Augmented reality is the integration of digital information with the user's environment in real time. Unlike virtual reality, which creates a totally artificial environment, augmented reality uses the existing environment and overlays new information on top of it.

Boeing researcher Thomas Caudell coined the term augmented reality in 1990, to describe how the head-mounted displays that electricians used when assembling complicated wiring harnesses worked. One of the first commercial applications of AR technology was the yellow "first down" line that began appearing in televised football games sometime in 1998. Today, Google glass and heads-up displays in car windshields are perhaps the most well-known consumer AR products, but the technology is used in many industries including healthcare, public safety, gas and oil, tourism and marketing.

Augmented reality apps are written in special 3D programs that allow the developer to tie animation or contextual digital information in the computer program to an augmented reality "marker" in the real world. When a computing device's AR app or browser plug-in receives digital information from a known marker, it begins to execute the marker's code and layer the correct image or images.

AR applications for smartphones typically include global positioning system (GPS) to pinpoint the user's location and its compass to detect device orientation. Sophisticated AR programs used by the military for training may include machine vision, object recognition and gesture recognition technologies.

G.Anuversha
CSE III/IV

Computer Society of India

Formed in 1965, the CSI has been instrumental in guiding the Indian IT industry down the right path since its formative years. Today, the CSI has 70 chapters all over India, 418 student branches, and more than 90000 members including India's most famous IT industry leaders, brilliant scientists and dedicated academicians.

The mission of the CSI is to facilitate research, knowledge sharing, learning and career enhancement for all categories of IT professionals, while simultaneously inspiring and nurturing new entrants into the industry and helping them to integrate into the IT community. The CSI is also working closely with other industry associations, government bodies and academia to ensure that the benefits of IT advancement ultimately percolate down to every single citizen of India.

The National Level Techfest DhruvaMedha has been conducted in coordination with the Computer Society of India.

Dhruva Medha

In its endeavor to provide a national platform for the youth to showcase their talents and skills in fierce competitions, displaying cutting edge technology and research from all over the country, having renowned personalities motivate the youth and promoting solutions to alleviate the common man of his banal yet significant problems, DhruvaMedha strives for one and all to get inspired and look up to.

Events Conducted as a part of DhruvaMedha:

Reflexes - A quiz to test your spontaneity. A description is given, based on which questions are to be answered.

Googled - A set of questions are given and a system with internet access is provided to u in order to answer the given questions. You should be quick to answer these questions correctly

Techno Ladder - This is similar to our childhood game snake and ladder. In this, simple questions are given to solve and the correct solution allows you to move forward. In the given time limit the one on the top score will be the winner.

Paper Presentation - This event to express your ideas with others. You have to present a ppt based on any technical topic. The abstract is to be sent previously and ppt should not be too long.

Code Hunt - coding and decoding in c programming language

The 5'O Clock Code – The 5'O Clock Code is an online coding challenge to be held on www.hackerrank.com. Set of 5 questions are to be solved in a span of 24 hours.

Student Innovations

S.No.	Name	Class	Event	Dates	Institute/ Venue
1	Ravali Alle	CSE III/IV	Project based Workshop on” Machine Learning”	05/08/16 06/08/16	Matrusri Engineering College
2	P.Bhuvaneshwari	CSE III/IV	Dhruvamedha-2k16	05/10/16	Matrusri Engineering College
3	A.Sai Sri	CSE III/IV	Dhruvamedha-2k16	05/10/16	Matrusri Engineering College
4	Y.Monika	CSE III/IV	Dhruvamedha-2k16	05/10/16	Matrusri Engg College
5	A.Ravali	CSE III/IV	Dhruvamedha-2k16	05/10/16	Matrusri Engineering College
6	G.Vichetana	CSE III/IV	Dhruvamedha-2k16	05/10/16	Matrusri Engineering College
	K.Namratha Reddy	CSE III/IV	Dhruvamedha-2k16	05/10/16	Matrusri Engineering College

