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GEETHANJALI
INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TECHIES CHRONICLE

-Driven to Discover

Augmented Reality

Augmented reality overlays digital content and information onto the physical world as if they're actually there with you, in your own space. AR opens up new ways for your devices to be helpful throughout your day by letting you experience digital content in the same way you experience the world. It lets you search things visually, simply by pointing your camera at them. It can put answers right where your questions are by overlaying visual, immersive content on top of your real world.

Augmented reality (AR) is an interactive experience of a real-world environment where the objects that reside in the real world are enhanced by computer-generated perceptual information, sometimes across



multiple sensory modalities, including visual, auditory, haptic, somatosensory and olfactory. AR can be defined as a system that fulfills three basic features: a combination of real and virtual worlds, real-time interaction, and accurate 3D registration of virtual and real objects. The overlaid sensory information can be constructive (i.e. additive to the natural environment), or destructive (i.e. masking of the natural environment). This experience is seamlessly interwoven with the physical world such that it is perceived as an immersive aspect of the real environment. In this way, augmented reality alters one's ongoing perception of a real-world environment, whereas virtual reality completely replaces the user's real-world environment with a simulated one. Augmented reality is related to two largely synonymous terms: mixed reality and computer-mediated reality.

Editorial Board

Editors: P. Radhika, Asst. Professor, Y.V. Ramesh, Asst. Professor

Student Editors: Ch. Sujitha (III CSE), D. Kavya (III CSE), Md. Shahabaz (II CSE), O. Sujay (II CSE)

Faculty Contributions/ Achievements

- Dr. P. Nagendra Kumar has attended “Android Application Development”, National Workshop, Aditya College of Engineering, Madanapalle, Chittoor District, 21st and 22nd March 2018.
- Ms.V.Gayatri has certified NPTEL online certification on “ Introduction to Internet of Things” , conducted by IIT Kharagpur , January-April, 2018.
- Ms.V.Gayatri has certified NPTEL online certification on “ MATLAB Programming for Numerical Computation” , conducted by IIT Madras, February-March,2018.
- Ms.V.Gayatri has attended on “Google Andriod application development” Workshop on 21-22 march , 2018, organized by Aditya Engineering College, Madanpalli.
- Ms.V.Bharathi has attended on “Google Andriod application development” Workshop on 21-22 march , 2018, organized by Aditya Engineering College, Madanpalli.
- Ms.N.SivaNagamani has attended on “Google Andriod application development” Workshop on 21-22 march , 2018, organized by Aditya Engineering College, Madanpalli.
- Ms. P. Radhika has Attended Two day workshop on” Google Andriod “21-22 march 2018 at Aditya Engineering College Madanapalli.
- Mr.K.Venkata Nagendra has Participated One week FDP on “Statistic Analysis with R” at SRKR, Bhimavaram, from 13-18 Feb 2018.
- Mr. K. Sreenivas has Completed Workshop on Basic Programming Using Python offered by FOSSEE Project, IIT Bombay, Funded by NMEICT, MHRD, Govt. Of India in March,2018.
- Mr. K. Sreenivas has Attended Two Day National Level Workshop on Android Application Development on 21.03.2018 & 22.03.2018.
- Mr.K.Sreenivas has Completed 8 Week NPTEL Online Certification on Information Security-IVCourse (Feb-Mar 2018).
- Ms.Sukeerthi has Attended Two day workshop on” Google Andriod “21-22 march 2018 at Aditya Engineering College Madanapalli.
- Mr. Y. Venkata Ramesh has Attended two day FDP on “Android Application Development”, Organized by Aditya College of Engineering on 21st- 22nd march, 2018
- Mr.Y.Venkat Ramesh has Attended Four day Training program by CISCO on “IT_ Essentials” on 21st- 22th March 2018 at SCET, Narasapur.
- Mr. A. L. Sravan Kumar has Attended Four day Training program by CISCO on “IT_ Essentials” on 21st- 22th March 2018 at SCET, Narasapur.
- Ms. P. Chandrakala has Attended two day FDP on “Android Application Development”, Organized by Aditya College of Engineering on 21st- 22nd march, 2018

Events Organized

- On the occasion of GISTECHFEST-2K18 paper presentation event is organized in association with Department of Computer Science and Engineering. Nearly 100 papers from various colleges from different parts of the country were received and out of 100 papers 75 papers were selected for the paper presentation event. Selected papers were presented at the event and made a grand success.



- On the occasion of GISTECHFEST-2K18, An online assessment test on C-Programming was organized in association with Department of Computer Science and Engineering for students to explore the programming knowledge. Nearly 250 Students from different colleges participated actively in the event and made a grand success



Webinars for Students

- An IUCEEE webinar was organized on Virtual Academy: Instructional Module Development System (IMODS) - Session 1, on March 13th, 2018. Resource Person for the webinar is Srividya Bansal, Associate Professor, Ira A. Fulton Schools of Engineering, Arizona State University.
- An IUCEEE webinar was organized on Developing Creative and Critical Thinking Skills Through Open Ended Design Projects at the Freshman and Senior Level on March 16th, 2018. Resource Person for the webinar is John Tharakan, PhD, Professor, Department of Chemical Engineering, Fulbright-Nehru Senior Scholar, Faculty Adviser, Engineers Without Borders, Howard University Chapter, Howard University.
- A Webinar titled “2nd Oracle Academy Virtual Student Day” was organized by department of CSE on 26 Feb 2018 between from 10.30 A.M. to 1.30 P.M.
- A Live telecast was organized by Department of Computer Science and Engineering, III CSE Students watched the live address delivered to the X class and XII standard (CBSE) students at Talkatora Stadium, New Delhi by Prime Minister Narendra Modi on 16-02-2018 in the afternoon 12 P.M. to 2 P.M. under the initiative “**MAKING EXAMS FUN: Chat with PM Modi**”.

Workshops

A Five day workshop on Machine learning for engineering and science applications was organized by the department of CSE, from 19th to 23th February 2018 in collaboration with CSI. The resource person Mr. G .Ganesh Sumanth explained various concepts of Machine Learning related aspects right from the fundamentals for II year II Semester B.Tech CSE students.

The Principal of GIST, Prof. Dr. G.Subba Rao, in the inaugural address also mentioned the demand of Machine Learning Engineers in the related fields of Computers. The head of the Department of CSE, Dr.Y.Jahnavi, Ms.P.Radhika, Assistant Professor and faculty members of CSE also took part in the workshop actively.



Webinars

- An IUCEEE webinar was organized on Project based Learning (PBL): Issues faced by Faculty for its effective implementation, March 6th, 2018.
- An IUCEEE webinar was organized on Paradigm shift in teaching methodologies - Improved knowledge of faculty and students March 7th, 2018.
- An IUCEEE webinar was organized on Collaboration with Industry in designing Information Storage and Management course March 8th, 2018.

Student Achievements

- III B.Tech students Ms. N. Suneesha, Mr. S. Krishna Sai of Department of Computer Science and Engineering have excelled and secured 1st prize as well as internship respectively in innovative ideas contest conducted by Intellect Design and internships in the innovative ideas contest held by ‘Intellect Design’ an association of the software major “Polaris” on 6th and 20th January-2018 .
- M.Divyasree, S.MeghaLavani and R.KalaSravani has secured 2nd prize in QUIZ @ SRUJANA-2K18, GIST,nellore(13-04-2018)
- J.Bhavani, A.SriBhargavi, Ch.Jyothsna has participated in QUIZ @ GISTECHFEST-2K18, GIST,Nellore(23-3-2018 & 24-3-2018)



- Sk.Warris, P.Haneesha,M.Jyosvitha has participated in QUIZ @ GISTECHFEST-2K18, GIST,Nellore(23-3-2018 & 24-3-2018)
- Sk.PyariRaheela, M.Pavani,P.Jhansi has participated in QUIZ @ GISTECHFEST-2K18, GIST,Nellore(23-3-2018 & 24-3-2018)
- D. AnushaYadhav, D.Kavya, T.V.S.Mounika has participated in QUIZ @ GISTECHFEST-2K18, GIST, Nellore(23-3-2018 & 24-3-2018)
- A.Poojitha has participated in Poster presentation @ GISTECHFEST-2K18 , GIST, Nellore (23-3-2018 & 24-3-2018) and got 2nd prize.
- Sk.AfrinShenaz has presented a paper on “ Programming Languages” @ E-CON 2K18, MuthyalammalEngineering college(Autonomous), TamilNadu,22-02-2018
- O.Sujay has presented a paper on “Humane artificial Intelligence” @GISTECHFEST-2K18, GIST,Nellore(23-3-2018 & 24-3-2018) and got 1st prize.

Paper publications

- P.Jahnvi has presented a paper on “Data Mining and Machine Learning”@GISTECHFEST-2K18, GIST,Nellore(23-3-2018 & 24-3-2018)
- S.Chandini has presented a paper on “Data Mining and Machine Learning@GISTECHFEST-2K18, GIST,Nellore(23-3-2018 & 24-3-2018)
- A.Rishitha has presented a paper on “Data Mining and Machine Learning”@GISTECHFEST-2K18, GIST,Nellore(23-3-2018 & 24-3-2018)
- K. VishnuPriya has presented a paper on “Virtual smart phone”@GISTECHFEST-2K18, GIST,Nellore(23-3-2018 & 24-3-2018)
- V.SrilakshmiNavya has presented a paper on “Artificial Intelligence and machine Learning” @AROHAN-2018, NEC,Nellore(March 17th)
- I.SangeethaKamakshi has presented a paper on “Artificial Intelligence and machine Learning” @AROHAN-2018, NEC,Nellore(March 17th)
- P. Gopi Chand Reddy has presented a paper on “ 5G new technology”, @ TECHROMA-2K18, NEC,Nellore.
- P. Sri Ram Chaitanya has presented a paper on “ 5G new technology”, @ TECHROMA-2K18, NEC,Nellore.
- P. Yamini has participated in state pre-finals of ICT academy youth talk ,@RVR &JC college of Engineering, Guntur, 23-03-2018
- M. Haritha has participated in state pre-finals of ICT academy youth talk ,@RVR &JC college of Engineering, Guntur, 23-03-2018
- P. SaiChandana has participated in state pre-finals of ICT academy youth talk ,@RVR &JC college of Engineering, Guntur, 23-03-2018
- M.Pravallika has participated in state pre-finals of ICT academy youth talk ,@RVR &JC college of Engineering, Guntur, 23-03-2018
- J.Bhuvanewari has participated in SMART INDIA HACKATHON-software edition, 30-03-2018 & 31-03-2018.

Industrial visit

- Department of Computer Science organized an **INDUSTRIAL VISIT** to **INTELLECT DESIGN ARENA LTD.**, Chennai, for III B. Tech Students on 20thJAN 2018.



Student Workshop

- A three day workshop on ‘Google Android Developer Fundamental workshop’ was conducted on 19,20,21 March 2018 under the auspices of the Department of Computer Science & Engineering for III B.Tech students in association with APSSDC(Andhra Pradesh State Skill Development Corporation).

