

Report on Webinar on Virtual Reality/ Augmented Reality

21/11/2020

On 18th November 2020

Organized by

Department of Computer Science and Engineering,

B.S. Abdur Rahman Crescent Institute of Science and Technology,

Chennai.

PREAMBLE:

Webinar on Virtual Reality/ Augmented Reality has been organized by the Department of Computer Science and Engineering, B.S. Abdur Rahman Crescent Institute of Science and Technology. Augmented Reality (AR) is an interactive experience of a real-world environment where the objects that dwell in the real world are improved by computer-generated perceptual data, in some cases over various tactile modalities, including visual, sound-related, haptic, somatosensory and olfactory. Augmented Reality and Virtual Reality have been transformed a lot of verticals in training like enterprises, academia, defense, aeronautics and lots more. Essentially VR powered training modules puts the trainees in a virtual 3D environment, which is related to the subject they are gathering information or gaining training. In this competitive era, everybody wants to be updated and to be the frontrunner, has to adopt current trends and technologies. Hence this webinar has been scheduled for the students, research scholars and faculty from various institutions.

Dr. E. Syed Mohamed – The HOD of CSE - has inaugurated the program; Dr. L. Arun Raj, Dr. A. Ramachandran and Mr. D. S. Manoj Kumar - The faculty members from the Department of Computer Science and Engineering were also available during this webinar. The resource person Dr. K. Martin Sagayam is from Karunya Institute of Technology and Sciences who has an in-depth knowledge of the AR/VR technologies, implementations and methodologies. This program paved a path to understand both AR & VR and apprehend the principles of both in a real-time scenario.

COURSE CONTENT DELIVERED:

- Define AR and VR
- Augmented Reality vs. Virtual Reality
- History of AR/VR
- Hardware & Software
- Augmented Tracking
- Future of AR/VR
- Human physiology and perception
- Google's Project Glass
- Applications and Tools

The feedback about the webinar has also been collected from the participants. The total number of participants is 105. The snapshot of the list of participants:

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SCHOOL OF COMPUTER, INFORMATION AND MATHEMATICAL SCIENCES

Webinar on

VIRTUAL REALITY / AUGMENTED REALITY

(For Final Year and Pre Final Year Students)

18th Nov, 2020, 4:00 to 5:30pm

organised by

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

REGISTER HERE



<https://tinyurl.com/y3mgahu6>



Resource Person

Dr. K. Martin Sagayam, M.E., Ph.D.

Karunya Institute of Technology and Sciences

COORDINATORS

Dr. L. ARUN RAJ
 Associate Professor

Dr.A. RAMACHANDRAN
 Assistant Professor

Mr.D.S. MANOJ KUMAR
 Assistant Professor

CONVENORS

Dr.E. SYED MOHAMED
 Professor & Head, CSE

Dr.VENKATESAN SELVAM
 Dean (SCIMS)

Participants will be provided with E-Certificate*



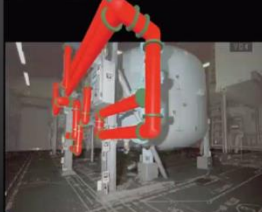

Saravanan Parth... Dr. L.Arun Raj RAMACHANDR... Mr. Manoj Kum... Dr. Manoj Sappan

Augmented Reality

- ▶ **Augmented Reality**
 - Def: An artificial environment created through the combination of real-world and computer generated data.
- ▶ Augmented Reality was initially designed for medicine, military and maintenance purposes.
- ▶ So companies interested in mobile development such as Nokia, Qualcomm, Google are willing to fund research on AR.

Saravanan Parth... Dr. L.Arun Raj Mr. Manoj Kum... RAMACHANDR...

Augmented Reality vs. Virtual Reality

Engineering	Education - Virtual Storm
	

Saravanan Parth... Dr. L.Arun Raj Mr. Manoj Kum... RAMACHANDR... connecting to audio

Recent technology using hand gesture recognition





- **Accept a Call** – Point to the BMW iDrive Touch screen
- **Reject a Call** – Swipe Your Hand to the Right
- **Turn the Volume Up** – Circle Your Finger Clockwise
- **Turn the Volume Down** – Circle Your Finger Counter-Clockwise
- **Change Rearview Camera Angle** – Create a Circle with Your Thumb and Forefinger
- **Select Navigation/Custom Setting** – Point to the Touchscreen with Two Fingers

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Saravanan Parth...
Dr. L.Arun Raj
Mr. Manoj Kum...
RAMACHANDR...
Connecting to audio...

Current problems & Future work

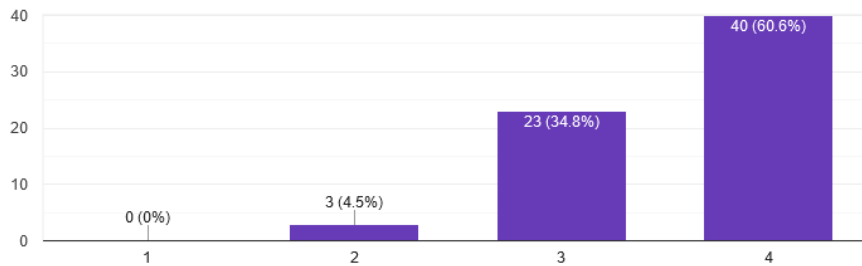
- ⊗ Cybersickness / simulator sickness
- ⊗ Low-fidelity
- ⊗ Expensive
- ⊗ Lack of integration between application packages
- ⊕ High-fidelity system
- ⊕ Cost-saving
- ⊕ Collaborative
- ⊕ High-level contact between participants in distributed VR

FEEDBACK METRICS

Your Satisfaction Level with the presentation given by Dr. K. Martin Sagayam

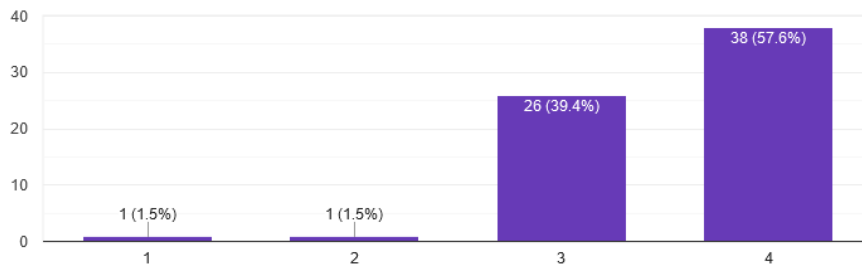


66 responses



The relevance of the content:

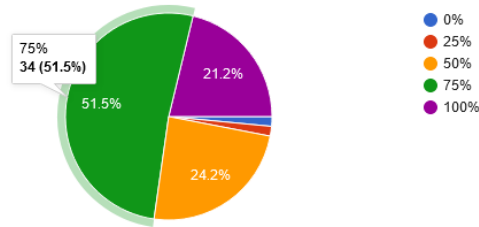
66 responses





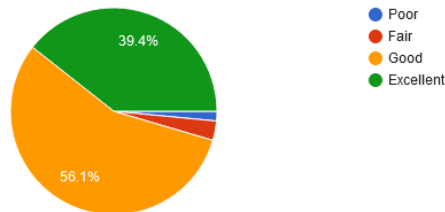
What percentage of the information was new to you?

66 responses



Please rate your overall experience:

66 responses



Additional comments:

66 responses

- excellent session. Nicely organised webinar and good teamwork of organising committee.
- Was really useful
- Good. But Need to be more interactive than this.
- It was really informative and intriguing
- The Session Was very informative. Thank You So Much for such knowledge.
- Excellent Delivery. Very Informative Session. Thanks To The Coordinator for Organizing This Webinar
- It was very useful
- Nice webinar
- It was very informative webinar.


The 95% of participants were satisfied with the workshop deliverables. The participants appreciated the resource person - Dr. K. Martin Sagayam - for dispensing the excellent presentation on AR/VR.

Webinar Coordinator
[Dr. L. Arun Raj]

Convener
[Dr. E. Syed Mohamed]

Participant Certificate

SCHOOL OF COMPUTER INFORMATION AND MATHEMATICAL SCIENCES

 B.S. Abdur Rahman
Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956


**CERTIFICATE
OF PARTICIPATION**


This is to certify that


Mr. YOGESH ADHITHYA C B

of *B. S. Abdur Rahman Crescent Institute of Science And Technology*

has successfully participated in the Webinar on "**Virtual Reality / Augmented Reality**"
on 18th November 2020, organized by Department of Computer Science and Engineering.


DR. L. ARUN RAJ
Associate Professor
Department of CSE


DR. E. SYED MOHAMED
Professor & Head
Department of CSE


DR. VENKATESAN SELVAM
Dean (SCIMS)



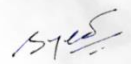
Resource Person Certificate


Thank you!

School of Computer Information and Mathematical
Sciences of B S Abdur Rahman
Crescent Institute of Science and Technology, India,
proudly be thankful for
the lecture delivered by

Dr. K. Martin Sagayam, M.E., Ph.D.,
Karunya Institute of Technology and Sciences,

in the webinar titled "**Virtual Reality / Augmented
Reality**" conducted on 18th November 2020.


Dr. E. Syed Mohamed
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Institute of Science & Technology
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