TECHNOZOLA

THE GLOBE OF TECHNOLOGY

THE OFFICIAL NEWSLETTER OF THE DEPARTMENT

JANUARY 2019

VOLUME - 5

"In the Pulwama Attack done by Pakistan Terrorists, we lost our 42 Indian Soldiers(CRPF). In accordance to this, our UshaRama College Students done a rally to restore peace for the soldiers on February 16 2019."

ARTICLE

RAY TRACING ON TURING ARCHITECTURE

Ray Tracing: Ray tracing is a rendering technique that can produce incredibly realistic lighting effects. Essentially, an algorithm can trace the path of light, and then simulate the way that the light interacts with the virtual objects it ultimately hits in the computer-generated world.

The oversimplified answer is that ray tracing models the behavior of light in real time as it intersects objects in a scene.

It's a feature that could lead to spectacular new graphics, but has been very hard to pull off because of the computational requirements. But Nvidia is tackling several issues facing ray tracing with a new graphics architecture known as Turing.

It's especially suited for adding realistic, real-time lighting and effects.

Many computer aided design (CAD) programs which accurately model objects are unable to model light. It is very important that architects have realistic renderings for their designs. This is what raytracing will do.

Ray tracing is really hard to pull off cause it requires huge computational power and the turing architecture can deliver that power by adding advanced rendering techniques and AI capabilities.

" GeForce RTX graphic cards are powered by the turing GPU architecture and the all new RTX platform. This gives you up to 6X better performance with compared to previous graphic cards and bring the real-time ray tracing and AI to games.

This Image is displayed using GeForce RTX graphic card

IS THERE A ALIEN??

 As we can imagine how an alien behave , These hypothetical life forms may range from simple prokaryotes "pro" means "before" and "kary" means "nucleus" to beings with civilizations far more advanced than humanity. We do not know about their thoughts superior or dreadful, but in case if it is harm to our mankind it makes immense calamity.

But there are no proofs that these life forms are good or bad. All these are the imaginations that they may be harmful to mankind or they tried to help us .we have listened from scientists and some other space related organizations like UFO(unified flying objects) these aliens are coming to earth from their planets(to occupy the earth).

Since the mid-20th century, there has been an ongoing search for signs of extraterrestrial life. This encompasses a search for current and historic extraterrestrial life, and a narrower search for extraterrestrial intelligent life. Depending on the category of search, methods range from the analysis of telescope and specimen data to radios used to detect and send communication signals.

Science plays a central role for today world. By using telecommunication signals the researchers are getting some signals from outer space. Many spaceships have landed on earth that does not relates to earth. This is not pie-in-the-sky research—scientists have been studying this possibility for nearly 60 years. Several research projects concerning the search for extraterrestrial intelligence (SETI) have been launched since the late 1950s, mainly in the United States. The idea is that an advanced civilization on another planet could be generating electromagnetic signals and scientists on Earth might be able to pick up those signals using the latest high-performance radio telescopes.

Despite considerable advances in radio astronomy and the increase in computing power since then, none of those projects has led to anything concrete. Some signals without identifiable origin have been recorded, like the "Wow!" signal in 1977, but none of them has been repeated or seems credible enough to be attributable to "alien life".
But that doesn't mean scientists have given up. On the contrary, SETI has seen renewed interest following the discovery of the many exo-planets orbiting the billions of suns in our galaxy. Researchers have designed sophisticated new instruments—like the Square Kilometre Array, a Giant Radio Telescope under construction in South Africa and Australia, with a total collecting area of one square kilometre —that could pave the way to promising breakthroughs.

The area 51 is the place where a mystery hidden. The place was restricted to only authorised people and no news or updates(about the aliens) are not coming from it.

A place Situated in Lincoln County near the Nevada Test & Training Range is Area 51, one of the most secretive places on Earth. Its very existence was denied by the government up until 2003. Although the purpose of the facility has not been officially declared, many believe it to be a testing facility for experimental weapons and aircraft. The secrecy and strange happenings occurring around Area 51 has inspired countless conspiracy theories.

ALIENS

UFO

SEMINAR

International Seminar on "Real Time Storage Architecture and its Applications

25th January 2019

Mr.Davuluri Veera Prasad – Storage Architect, Operating System Incorporation – Texas, USA

Processing a data stream in real time is a crucial issue for several applications. So, processing a large amount of data from different sources such as sensor networks, web traffic, social media, video streams & other sources represents a huge challenge.

The main problem here is big data system is based on hadoop technology, which is high scalability & fautt tolerant framework. Thus, the need for new architecture that allows realitive architecture with high speed along with low latency & its applications.

Seminar Conducted by Mr. D. Veera Prasad About Real Time Storage Architecture

At R - Block Seminar Hall

For 2nd & 3rd Year CSE

MoCk GaTe TiMeS

Introduction:

Computer Science Engineering Students Association (TECHNOZOLA) conducts an event every Fortnight for the students of 2nd and 3rd year B.Tech. As part of this, TECHNOZOLA conducted Technical Online Mock GATE Examinations for the all branches from the institutions (Multidisciplinary departments) on 24th January 2019 i.e. Thursday.

Event publicity: Event publicity was carried out by the co-coordinators of 3rd year. The circular was taken class to class and the students were informed about the event.

Questions preparation: The main aspect of the competition is framing out questions (Questions prepared from gate question papers). This task was handed over to Student Secretary Mr. Bhanu Vents Phani and his team. They prepared questions with the help of Dr.KPNV Satyasree (Professor – Department of CSE) faculty of our department. Round wise questions were framed.

Prize Distribution:

The prizes were distributed to the winners by Dr. B. Nagasrinivas Rao(Director – Admissions) , Dr. A. Madhana Mohan Rao(Vice-principal) , Dr. Shanthirani (Dean Academics) , Mr. M. Sambasivarao Rao(Professor - CSE), Dr.S.M.Roychoudri – Professor & HOD, Department of CSE & Dr.KPNV Satyasree – (Coordinator – Technozola & Professor, Department of CSE).

Online Technical Mock GATE Examination – Jan'2K19

Prize Winners

Overall Champion

(Freshman) : 18NG1A0570   Chilukuri Dilip Kumar   cse   1   40   24:06:00

First Prize (Department Wise)

CSE	: 16NG1A0514	Ghanta Satwik	cse	3	40	1:26
ECE	: 17NG1A0448	S.Anoop Joshua	ece	2	38	7:11
CIVIL	: 16NG5A0128	S ANIL KUMAR	civil	4	34	5:48
EEE	: 15NG1A0212	kolluri sukesh	eee	4	38	41:43:00
IT	: 16NG1A1221	KANDULALOKESH	it	3	26	9:48
Mech	: 16NG5A0318	V.VENUBABU	mech	4	28	4:14
Freshman	: 18NG1A0560	Y.TRIPURA SRI	cse	1	38	14:23

FACULTY ACHIEVEMENT

DR. KURRA RAJASEKHARA RAO SIR DEPUTED AS A GUEST OF HONOUR FOR THE INTERNATIONAL CONFERENCE.

DR. KPNV SATYASREE AND **DR. S M ROYCHOUDRI** ATTENTED INTERNATIONAL SEMINAR ON RECENT INNOVATIONS IN COMPUTER SCIENCE & TECHNOLOGY (ICRICT 2019) AT P. B . SIDDHARTHA COLLEGE OF ARTS & SCIENCE VIJAYAWADA ON 25TH JANUARY 2019, AND PRESENTED A SEMINAR ON THE TOPIC NOVEL OPTIMIZATION TECHNIQUES FOR K- MEANS ALGORITHM.

PRIZE WINNERS
MOCK GATE

PRIZE
AMAZON ECHO DOT

CONGRATULATONS
CHILUKURI DILIP KUMAR (I YEAR CSE)

PRIZE
SONATA SMART WATCH

CONGRATULATONS
GHANTA SATWIK (III YEAR CSE)

"Technozola Team members and Co-ordinators Successfully conducted MOCK GATE exam."

PRIZE WINNERS MOCK GATE
DEPARTMENT WISE

CONGRATULATIONS

16NG1A0128 - S. Anil Kumar

CIVIL

CONGRATULATIONS

15NG1A0212 - Kolluri Sukesh

E. E. E

CONGRATULATIONS

16NG1A1221 - K. Lokesh

I.T

CONGRATULATIONS

16NG1A0318 - V. Venubabu

MECHANICAL

CONGRATULATIONS

17NG1A0448 S Anoop

E. C. E

CONGRATULATIONS

18NG1A0560 - Y. Tripura Sri

FRESHMAN

FeSt TiMeS
2K19

Yo'UR fest 2019 is organised on 4rth and 5th Jan 2019 in Usha Rama College Of Engineering And Technology.

The Department of CSE and IT had organized 11 Events, on 4rth Jan 2019 which includes PPT, Poster Presentation, Project Expo, Technical Quiz, Technothon, Google Masters, Code Royale, Crypt Your Mind, Tech Synonyms, Minute To Win It, Technical Cross Word Puzzle and many more......

Totally 34 prizes have been given to the participants from the college on 4rth Jan 2019 for first second positions.

On 5th Jan 2019, The cultural events have been organized such as Telugu Ammayi, Singing, Dancing, Rangoli and many more..... And has given prizes to the winners on the day.
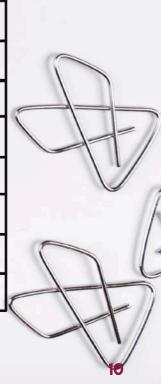
STUDENTS
ACHIEVEMENTS

CONGRATULATIONS

STUDENTS RECRIUTED BY ADWAIT ALOGORITHMS

1) V. SAI HARITHA
2) E. POOJITHA
3) P. SAI HIMA SRI
4) P. ANUSHA
5) M. PRATHYUSHA
6) K. CHANDRA LEKHA
7) P. PRATHYUSHA
8) G. JAYA KRISHNA
9) K. NIKHIL SAI
10) N. SUBODH
11) V. NAGA SRAVANI

ADWAIT
algorithm

CONGRATULATIONS

STUDENTS RECRIUTED BY PRYCE INFOTECH

1) E. POOJITHA
2) M. NAGA MOUNIKA
3) P. SAI HIMASRI
4) K .CHANDRA LEKHA
5) K. NIKHILSAI

THE ERROR-FREE WORLD

Where mirrors are the reflection of errors,
We are here to clear the clutter;
Never alone in the programming world,
Forevermore with debugging code,
By running on a never-ending loop.
When errors are the effects of faults,
Look into the mirror of thoughts,
Fix the faults as the compiler retorts.

TECHNOZOLA
A CSE Students Association

EXECUTIVE MEMBERS:

MR. B. S. VARAPRASAD - "EDITOR - IN - CHIEF"
- ASSISTANT PROFESSOR OF CSE DEPARTMENT

MS. V. RASHMI - "ASSOCIATE EDITOR"
- ASSISTANT PROFESSOR OF CSE DEPARTMENT

MRS. S. ASWINI - "MANUSCRIPT EDITOR"
- ASSISTANT PROFESSOR OF SCIENCES & HUMANITIES

MR. M. SAMBA SIVA RAO - "TECHNICAL EDITOR"
- ASSOCIATE PROFESSOR OF CSE DEPARTMENT

STUDENT REPRESENTATIVES:

D. JESSY MERCEDES   II CSE - A-17NG1A0512

L. OM SAI PRAKASH VARMA   II CSE - A-17NG1A0531

D. OMKAR SAI PRASAD   II - CSE - B-17NG1A0572

R. RAAGHAVI   III - CSE-A

MOHAMMAD ARSHAD   III - CSE-B

" Every Dreamer is a Winner If he/she plans to way of Strategic Perfection" - D. Omkar Sai CSE B

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USHA RAMA
COLLEGE OF ENGINEERING AND TECHNOLOGY