# 3.2.2 Number of Seminars/Conferences/Workshops conducted by the Institution during the last five years- Additional

## Index



| Si. No. | Academic Year | Name of the Workshop/Webinar/Seminar/ Conference | Type | Number of Participants | Date From – To | Page No. |
|---|---|---|---|---|---|---|
| 1 | 2020-2021 | Virtual Webinar on "Digital Mining – Vision 2030" | Webinar | 26 | 16.07.2021 - 16.07.2021 | 2-11 |
| 2 | 2020-2021 | Dr. TTIT Lecture Series | Webinar | 70 | 25.06.2021 - 9.07.2021 | 12 |
| 3 | 2020-2021 | 3rd International Conference on "Recent Trends in Technology, Engineering and Applied Science" | International Conference | 412 | 9.07.2021 - 10.07.2021 | 13-24 |
| 4 | 2020-2021 | Virtual Webinar on "PLETHORA OF MINERAL PROCESSING" | Webinar | 46 | 23.06.2021 - 23.06.2021 | 25-29 |
| 5 | 2019-2020 | International Conference on Recent trends in Technology, Engineering and Applied science(ICRTTEAS-2020) | International Conference | 250 | 24.7.2020 - 25.7.2020 | 30-50 |
| 6 | 2018-2019 | International Conference on Recent trends in Technology, Engineering and Applied Science(ICRTTEAS-2019) | International Conference | 375 | 12.4.2019 - 13.4.2019 | 51-80 |



15/12/21
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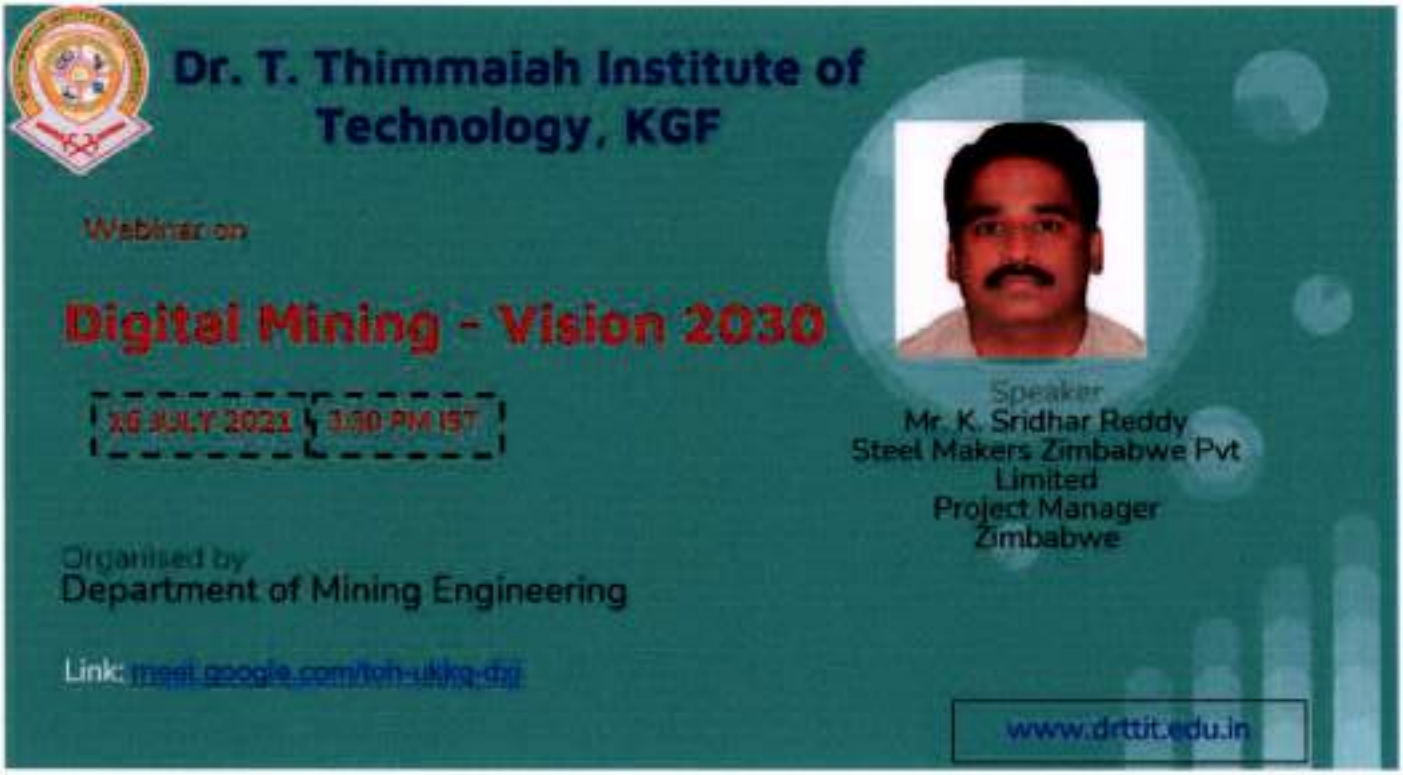
## Webinar Poster




## Program Agenda

**Dr. T.Thimmaiah Institute of Technology**
**Oorgaum, KGF-563120**

Virtual Webinar on "Digital Mining – Vision 2030"

Date: 16.07.2021
Timing: 03:30 to 04:30 PM

### PROGRAMME AGENDA

| | |
|---|---|
| □ Welcome Speech by: | Dr Manjunath A<br>Associate Prof, Dept of Mining, Dr.TTIT, KGF |
| □ Speech by HoD: | Dr Manas Mukhopadhyay<br>HOD, Dept of Mining, Dr.TTIT, KGF. |
| □ About the Session Speaker: | Prof Paul Prasanna Kumar<br>Associate Prof, Dept of Mining, Dr.TTIT, KGF |
| □ Session Speaker: | Mr K Sridhar Reddy<br>Project Manager, Steel Makers Zimbabwe Pvt Limited, Zimbabwe |
| □ Vote of Thanks: | Prof John Gladious J<br>Associate Prof, Dept of Mining, Dr.TTIT, KGF |

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## Academic achievements and Training

- University topper in Opencast Mining Methods
- Project work (Accident Analysis in Mines)

## Lecturing

- Asst. Professor in Godavari Institute of Engineering and Technology, India
- Guest faculty in Aditya Engineering College, India
- Examiner for Jawaharlal Nehru Technological university, India
- Skills training program for Miners conducted with X tract Training Services, South Africa

## Seminars Conducted

- Practical Mining Application: Aditya Engineering College, India
- Emerging trends in Mining Industry: Godavari Institute of Engineering and Technology, India
- Scopes and Opportunities of Transdisciplinary research in Mining Sector
  *The Institution of Engineers, India – March 2021*

## Research Papers Published

- S. Jayanthu, K.Sridhar Reddy, K.Maharshi, "Design of alternative methods of underground coal extraction for protection of surface structures- a numerical modeling approach" (In progress)
- Kallam Sridhar Reddy, Singam Jayanthu, and Suresh Devulapallu, "Fatigue Monitoring through Artificial Intelligence and Machine Learning – A need for Mining Industry ", in Proceedings of the International Conference on Open cast Mining and Sustainability, 2021, January.
- Conference on Opencast Mining and Sustainability, pp.243 249,January 2021
- Proceedings of Indian Engineering Congress(18 Dec 2020),pp. 1191-1198
- S. Jayanthu, P. Singh, K.S. Reddy, R. Lala, " Application Of Recent Guidelines Of 2020 For Tarp Vis-À-Vis Design Of Stable Slopes In Opencast Coal Mines-A Case Study" Proceedings of Indian Engineering Congress(18 Dec 2020),pp. 1191-1198

## Skills

- Project Management
- By planning, consultation and coordination Execution of works as per the timeline
- Analysis of the recovery process as per the set standards
- Mining operations planning and management
- Internal and external stake holder's management
- Skills Development, Training and facilitation
- Strategy planning
- Legal Statutory framework analysis and compliance
- Budget Planning and cost Analysis
- Safety, Health and Environment management
- Quality control standards assessment
- Contract Management
- Drafting Safety Operating Procedures / Review
- Risk Analysis – management and control

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**Work Experience**

Steel Makers Zimbabwe Pvt Limited, Zimbabwe

Manager – Mining Operations

May 2021 – Present

SMZL market leader for quality steel and have been in operation since 1998

**Summary of Roles & Responsibilities:**

*Role Reports to Country Operations Director*

**Main Roles and Responsibilities:**

- Sourcing EPC contractors for constructing 200,000 Tons /Year steel plant
- Overall, In charge for coal and Iron ore mines. full scope of operational responsibility
- Building Mineral Assets for the organization / Identifying potential mineral deposits
- Framing Mining organization structure and policies in line with ISO standards
- Policy framework Analysis and Implementation: standards association of Zimbabwe
- Coordinating with ministry of mines and provincial Inspectors in Identifying the Mineral zone

**Notable Projects / achievements:**

Completed several projects successfully as a Project manager – Initially started with SMZL in 2004

Subsequently brought back to be a part of the senior management team tasked with strategy planning and to be part of Sponge Iron processing plant; Phase II expansion project.

S.S Constructions, India

Project coordinator

August 2019 – April 2021

SS constructions involved in various Mining and Earth works

*This role reported to the Chief Mining Executive*

**Summary of Roles & Responsibilities:**

- Conducting mine visits to all the mines across different provinces. The main aim of the visits was to ensure operational excellence, progress monitoring on a variety of projects and information collation for reporting purposes. Additionally, for Stake holders management and engagement.
- Drawing timeline schedules and arranging required resources for operations and projects
- Identify gaps and areas of improvements in supply chain network managing the filling of the gaps by proposing and recommending optimal supply chain networks.

**Notable projects / achievements**

Identified the root cause problem in Dispatch management system at Dalmia Cements, Meghalaya. Prepared suggestive measures to the Top-level management. Resulted in improvement of Monthly handling Tonnage by 10 %.

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Kariba Minerals, Zambia
Head of Operations
February 2015 – March 2018

Kariba Minerals is a Joint venture company: (A GEMFIELDS / ZCCM-IH COMPANY).

Considered to be the largest Gemstone (Amethyst) resource in the world.

*This role reported to the C.E.O*

**Summary of Roles & Responsibilities:**

- Manage the overall operations of a Remotely located Mining operation in Zambia. Technical, logistics as well as finance.
- Reporting to the Board on a quarterly basis – Mine production and achievements / optimization process implemented for cost effective mining operations
- Independent Incharge – Manpower nearly 200 members including contractors
- Legal appointment as Mines Manager; Overall responsibility to run the whole operations
- Mining, Processing, and logistics management
- Coordinating with the International clients in dispatching the consignments
- Involved in the Auctioning gemstones, managing the Gemstones auction process.

**Notable Projects / achievements:**

- Developed handy tool to recover gemstones from Run of Mine; resulted in injury free operation and improvement in sorting rate.
- The practice of analyzing gemstones occurrences, helped the company to achieve highest revenue of 3 Million $ in 2019-2017.

Nash Holdings, Zambia
General Manager
July 2013 – Jan 2014 and April 2018 - Semp 2018

Explosive Dealers and associated in Diversified business areas.

*This role reported to the C.E.O*

**Summary of Roles & Responsibilities:**

- Strategy planning to increase the customer base
- Joint Venture with the Indian manufacturing units to set up the plant
- Review of legal frame work / drafting safety policies
- Coordinating with Chief Inspector of explosives to obtain statutory permissions
- Dispatch management – export and import of goods

**Notable Projects / achievements**

During my term, attracted Indian Investors to set up explosive manufacturing plant in Zambia. Memorandum of understanding signed.

Tantalum Mineral Prospecting Limited, Mozambique

17/03/2021

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Operations Manager
Semp 2011 – March 2013

Tantalum Mineral Prospecting Limited registered company in British Columbia, represented by Mr. Darren Town send. Tantalum Mine is located in Muiane, Gile district of Zambezi province.

*This role reported to the C.E.O*

**Summary of Roles & Responsibilities:**

- Remotely located mining operations
- Working with the south African consultants to set up the processing plant at the site
- Arranging the required resources and plan the works as per the design and scheduled times
- Analyzing the product recovery analysis as per the specification
- By using XRF analysers; feed rate Vs recovery analysis
- Planning the critical spares inventory , frequency and quantity
- Consultation with the Mining Inspectors to follow the rules as per the statue
- Coordinating with the Australian teams in setting up the secondary process units
- Final grades packing ,dispatch management

**Notable Projects / achievements**

Successfully completed in establishing primary and secondary beneficiation plant units at the Mine within the specified time frame and budget.

First consignment of processed Tantalum dispatched during my term as operations manager.

Anglo Platinum, South Africa
Mining Engineer
March 2008 – Semp 2010

Anglo Platinum, Mogalakwena operation is the world's largest open pit platinum.

Role reported to the Production Manager

**Summary of Roles & Responsibilities:**

- By coordinating with the all the shift bosses – analyze the production reports , report to production manager / suggestions for improvement
- Conducting re- engineering studies on the existing equipment to improve its productivity
- Safety management – risk analysis in Mining operations

**Notable Projects / achievement**

As a result of hard work and dedication, company sponsored my to me to upgrade my skills and knowledge in underground mining operations.

Automation Concepts, South Africa
Project Manager
2007

Automation concepts Provides a one-stop service to the customer, especially for fast track project implementation. Key aspects are Design, Engineering & Construction, Procurement and Project Management
Role reported to the M.D

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**Summary of Roles & Responsibilities:**

- Planning the resources as per the specified time schedule
- Inventory management
- Meetings with the client and other stake holders
- Legal frame work compliance and analysis

**Notable Projects / achievements**

Implemented new plans to minimize the cost effective process, linking up the activities without any overlap

Zenzele Technology Demonstration Centre, South Africa
Technical Consultant
2007

ZTDC is a nonprofit organization with its principal objective being to give technical support to promote technology transfer to small scale mining entrepreneurs.

Role reported to the CEO

**Summary of Roles & Responsibilities:**

- Advising miners on Mining and appropriate cost effective mining methods
- Transfer of Knowledge and skills

**Notable Projects / achievement**

Process improvement techniques for the miners and cost effective mine planning methods initiated.

Steel Makers Zimbabwe
Mine Manager
2004 – 2006

Role reported to the Group General Manager

**Summary of Roles & Responsibilities:**

- Remotely located Mining operation
- Plant construction activities at Iron ore mine
- Coordinating with multidisciplinary teams to execute works as planned
- Checks on the scope of works and deviations
- Planning and executing of works in consultation with respective Head of the department
- Overseas suppliers /specifications – documents monitoring and review
- Consultant management in planning and review the status of operations

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**Notable Projects / achievements**

Completed the assigned task of construing plant within the specified time frame and commissioned successfully

Jumbo Mining Limited, India

Assistant Mine Manager

2003

Jumbo Mining is one of the leading producers of Quartz and Feldspar

Reports to the Mine Manager

**Summary of Roles & Responsibilities:**

Visiting our mines on monthly basis and advice the site in charges to implement cost effective mining operations

**Notable Projects / achievements**

During my period achieved highest production

**Attended a Ram Informatics - Software Development Program 2001**

Fomento Resources Limited, India

Trainee Engineer, Mining Engineer, assistant Mine manager

1996 - 2001

Fomento Resources is an alliance of companies in the mineral resource industry committed to the social and economic advancement of its communities and has been a key player of the Goan economy since 1957.

Role reported to the Mine Manager

**Summary of Roles & Responsibilities:**

- Learned and applied my knowledge gained during my course of study.
- Exposed to multidisciplinary areas – Mining, Processing, Quality control and machinery
- Allocation of Manpower
- Managing the Human resources

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## Registration Form:

| Sl No | Timestamp | Username | Title | Name | Name of the College | Are you a Faculty or Student | Department |
|---|---|---|---|---|---|---|---|
| 1 | 2021/07/16 3:41:56 PM GMT+5:30 | raja@drttit.edu.in | Prof | RAJA S | Dr T T I T., KGF | Faculty | MINING |
| 2 | 2021/07/16 3:42:33 PM GMT+5:30 | hod.civ@drttit.edu.in | Dr | Ramesh K | DrTTIT | Faculty | CIVIL |
| 3 | 2021/07/16 3:42:54 PM GMT+5:30 | arunbk6699@gmail.com | Mr | Arun Kumar B.K | DR.T.THIMMAIAH INSTITUTE OF TECHNOLOGY | Student | MINING |
| 4 | 2021/07/16 3:43:09 PM GMT+5:30 | mahendran@drttit.edu.in | Mr | Mahendran.J | Dr TTIT | Faculty | MINING |
| 5 | 2021/07/16 3:43:27 PM GMT+5:30 | dunakaganesh123@gmail.com | Mr | Ganesh.D | DR. T. THIMMIAH INSTITUTE OF TECHNOLOGY | Student | MINING |
| 6 | 2021/07/16 3:43:29 PM GMT+5:30 | ravishankarmn10028@gmail.com | Mr | ravi shankar R | Dr.TTIT KGF | Student | MINING |
| 7 | 2021/07/16 3:43:36 PM GMT+5:30 | basavarajbasu366@gmail.com | Mr | Basavaraj | Dr.TTIT.KGF | Student | MINING |
| 8 | 2021/07/16 3:43:54 PM GMT+5:30 | udayarajupallapu0520@gmail.com | Mr | UDAYA RAJU P S | Dr. TTIT | Student | MINING |
| 9 | 2021/07/16 3:43:56 PM GMT+5:30 | sathyaksanju@gmail.com | Mr | Kanivihalli Sathisha | Dr. TTIT college KGF | Student | MINING |
| 10 | 2021/07/16 3:44:01 PM GMT+5:30 | kumar123maruthi@gmail.com | Mr | Kumar Maruthi S | Dr.T Thimmiah institute of technology | Student | MINING |

19/07/2021

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11 | 2021/07/16 3:44:03 PM GMT+5:30 | vinayaka.17.bemn@acharya.ac.in | Mr | VINAYAKA S | Acharya institute of technology | Student | MINING |
| 12 | 2021/07/16 3:44:19 PM GMT+5:30 | naveenaliaskiccha@gmail.com | Mr | Naveen M | Dr TTIT | Student | MINING |
| 13 | 2021/07/16 3:44:39 PM GMT+5:30 | parashuprasad10b@gmail.com | Mr | Parashu Ramu Prasad K | Dr. TTIT | Student | MINING |
| 14 | 2021/07/16 3:44:42 PM GMT+5:30 | kristaraj17@gmail.com | Mr | KRISTHARAJ L | Dr TTIT | Student | MINING |
| 15 | 2021/07/16 3:44:56 PM GMT+5:30 | john@drttitiedu.in | Mr | John Gladious | Dr. T. Thimmaiah Institute of Technology, K.G.F. | Faculty | MINING |
| 16 | 2021/07/16 3:45:12 PM GMT+5:30 | pmcharan4@gmail.com | Mr | Charan pm | Dr T Thimmiaha Institute of technology kgf | Student | MINING |
| 17 | 2021/07/16 3:49:28 PM GMT+5:30 | yogeshvr1234@gmail.com | Mr | YOGESH V R | ACHARYA INSTITUTE OF TECHNOLOGY | Student | MINING |
| 18 | 2021/07/16 3:49:58 PM GMT+5:30 | nisshu0786@gmail.com | Ms | Nishath fatima | Dr TTIT | Student | MINING |
| 19 | 2021/07/16 3:54:04 PM GMT+5:30 | sureshsmankar@gmail.com | Mr | Suresh Mankar | Acharya institute of technology | Student | MINING |
| 20 | 2021/07/16 3:57:38 PM GMT+5:30 | paul@drttit.edu.in | Mr | Paul Prasanna Kumar | Dr T Thimmaiah Institute of Technology | Faculty | MINING |
| 21 | 2021/07/16 3:57:46 PM GMT+5:30 | kbkcs04@gmail.com | Mr | Karthikkb | Dr.ttit | Student | MINING |
| 22 | 2021/07/16 3:58:47 PM GMT+5:30 | santosh.shiraganvi221@gmail.com | Mr | Santosh shiraganvi | Acharya institute of technology bangalore | Student | MINING |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 23 | 2021/07/16 3:59:54 PM GMT+5:30 | rangithangith103@gmail.com | Mr | Ranjith P | Acharya Institute of Technology | Student | MINING |
| 24 | 2021/07/16 4:03:07 PM GMT+5:30 | jpraveen343@gmail.com | Mr | Praveen.R.Jangid | Acharya institute of technology | Student | MINING |
| 25 | 2021/07/16 4:03:09 PM GMT+5:30 | akashkumarbs122@gmail.com | Mr | AKASH KUMAR B S | ACHARYA INSTITUTE OF TECHNOLOGY, BANGALORE | Student | MINING |
| 26 | 2021/07/16 4:13:06 PM GMT+5:30 | reddinesh1521@gmail.com | Mr | DINESH BABU R | DR.TTIT | Student | MINING |

**Certificate:**

GOLDEN VALLEY EDUCATIONAL TRUST

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Affiliated to Visvesvaraya Technological University, Belagavi

Approved By AICTE Govt. of India New Delhi | ISO 21001: 2018 Certified

CVET

## CERTIFICATE OF PARTICIPATION

This certificate is presented to

Mr VINAYAKA S

ACHARYA INSTITUTE OF TECHNOLOGY, BANGALORE

for attending webinar on "Digital Mining - Vision 2030", organized by Department of Mining Engineering, Dr. T.T.I.T, KGF on 16th July 2021.

| Dr. Manas Mukherjee | Prof. Rukmani Divakaran | Dr. H.G. Shenoy | Dr. Syed Ariff |
|---|---|---|---|
| Head | Dean (Academics) | Vice Principal | Principal |

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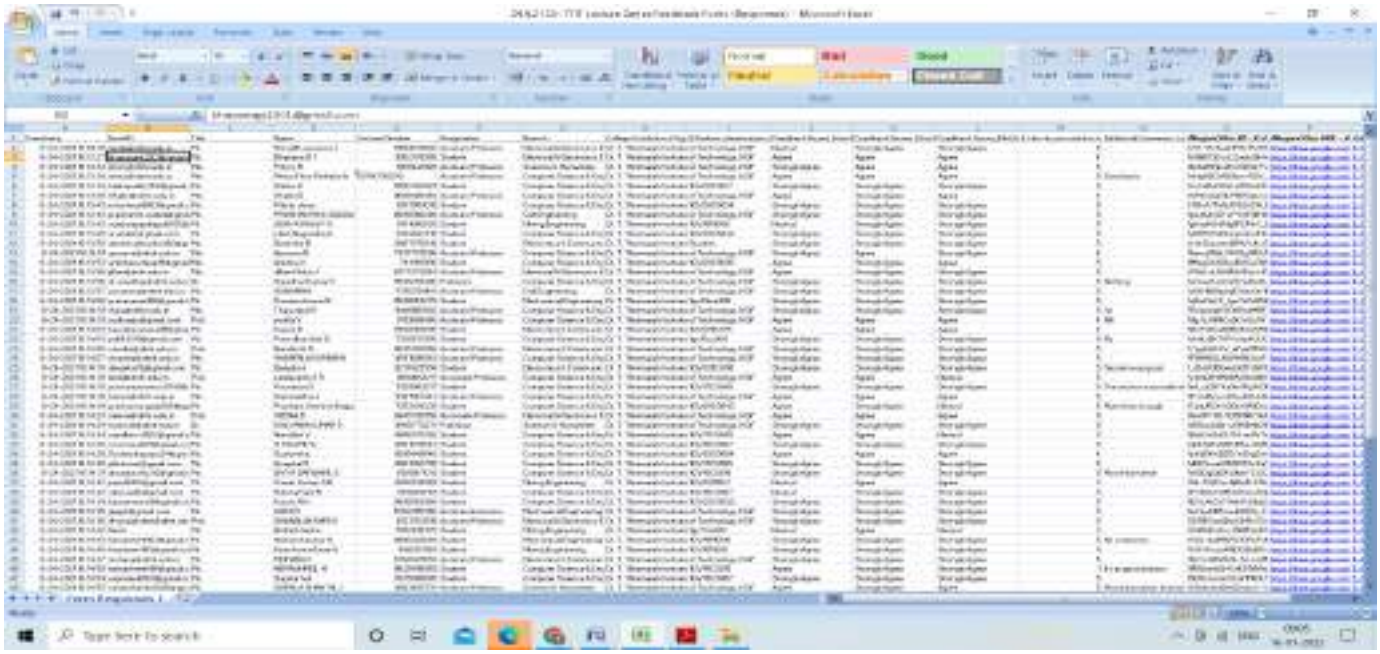
## Dr. TTIT Lecture Series

### Feedback Responses



### Certificates

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# Programme Schedule for 19th and 20th July 2021

**Date: 19.07.2021 (Monday)**

| Date 19.07.2021(Monday) | | Programme | Speaker | Mode of Presentation |
|---|---|---|---|---|
| 10.30AM-12.50PM | | **INAUGURAL SESSION** | | Online |
| 10.20AM-10.30AM | | **college Video** | | Online |
| 10.30-10.35AM | | Invocation | | Online |
| 10.35 AM-10.45 AM | | Welcome Address by Principal | Dr.Syed Ariff, Principal, DrTTIT, KGF | Online |
| 10.45AM-11.00 AM | | About ICRTTEAS2021 | Prof.Ruckmani Divakaran, General Chair, ICRTTEAS2021 and DEAN Academics. | Online |
| 11.00AM-11.15AM | | Inaugural Address | Dr T Venkat Vardhan, President, GVET, KGF | Online |
| | | | | |
| 11.15 AM-11.20 AM | | **Release of Souvenir** | Dr. T Venkat Vardhan, President, GVET, KGF | Online |
| | | **Key Note Address** | | |
| 11.20 AM-11.35AM | | International Speaker1 | Miss.Maria Vidhya Kotnees,Cyber Security Developer, IBM, New Brunswick.Canada | Online |
| 11.35AM-12.10PM | | Key Note Speaker2(Core branches) | Mr.Sadasivam V, AMC Eng., MICE, General Manager, Larsen & Toubro Ltd, Chennai | Online |
| 12.10PM-12.45PM | | Key Note Speaker3 (Circuit Branches) | Mr.NagaRajan Velu, Founder CEO, SuRCLe Technology Pvt Ltd, Bangalore | Online |
| 12.45PM-12.50PM | | Vote of Thanks | Dr.H.G.Shenoy, Vice Principal, DrTTIT, KGF | Online |
| 12.50 PM-1.45PM | | **LUNCH** | | |
| 1.45PM- 3.15 PM | 1 | Parallel Session1(CSE) | Dr.ShashiKumar, Prof & Head, Brindhavan. Institute of technology, Banglore | Online |
| | | | Prof.Vinutha, CSE Dept, DrTTIT, KGF | |
| | 2 | Parallel Session2(ECE) | Dr.S.Kumar, Associate professor, Chettinadu College of Engineering and Technology, Karur, TAMilnadu | Online |
| | | | Dr.A Jenitha, Associate Professor/ECE Dept, DRTTIT, KGF | |
| | 3 | Parallel Session3 (Civil) | Dr.P M Shanmuga Vadivu, Prof. & Head, Gopalan College of Engineering and Management,Bangalore | Online |
| | | | Prof.Maneela M, Associate professor, Civil Dept, DRTTIT, KGF | |
| | 4 | Parallel Session4 (Mining) | Prof.C.H.S.N.Murthy. Professor, Mining Department, NITK, Suratkal, | Online |
| | | | Prof.Vijaya Raghavan,Associate professor, Mining Department, DRTTIT, KGF | Online |
| | 5 | Parallel Session 4 (Mech & HS) | Dr. Sudheer Reddy J, Prof. & Head, Department of Mechanical Engineering, | Online |
| | | | Dr.P.D.Sudharsan, Professor, Mechanical Engg Dept, DRTTIT, KGF | |

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| | | | | |
|---|---|---|---|---|
| 3.15 PM-3.30PM | Tea break | | | |
| 3.30PM-4.45 PM | 1 | Parallel Session1(CSE ) | Dr.ShashiKumar, Prof & Head, CSE Dept,Brindhavan. Institute of technology, Bangalore | Online |
| | | | Prof.Hamsa Latha, Asst Prof, CSE Dept, DrTTIT, KGF | |
| | 2 | Parallel Session2( ECE) | Dr.S.Kumar, Associate professor, Chettinadu College of Engineering and Technology, Karur, Tamilnadu | Online |
| | | | Dr.A Jenitha, Associate Professor/ECE Dept, DRTTIT, KGF | |
| | 3 | Parallel Session3 (Civil) | Dr.P M Shanmuga vadivu, Gopalan College of Engineering and Management, Bangalore | Online |
| | | | Prof.Maneela M,Civil Dept, DRTTIT, KGF | |
| | 4 | Parallel Session4 (Mining) | Prof.C.H.S.N.Murthy. Professor, Mining Department, NITK, Suratkal. | Online |
| | | | Prof.Vijaya Raghavan, Associate Professor, Mining Engg Dept, DRTTIT, KGF | |
| | 5 | Parallel Session 4 (Mech & HS) | Dr. Sudheer Reddy J, Prof. & Head, Department of Mechanical Engineering. | Online |
| | | | Dr.P.D.Sudharsan, Professor, Mechanical Engg Dept, DRTTIT, KGF | |

**Date: 20.07.2021(Tuesday)**

| Date: 20.07.2021 (Tuesday) | Programme | | Speaker | Online |
|---|---|---|---|---|
| 10.00 AM-10.30 AM | Introduction about Keynote Speaker1 | | Prof.John Gladius, Associate Professor/ECE Dept, DRTTIT, KGF | Online |
| | International Speaker1 | | Mr.Charles Divinesh, Chairman Geomysore, Australian Indian Resource Ltd, Australia | Online |
| 10.30 AM-11.00AM | Introduction about Speaker2 | | Mrs Prema Latha, Asst Prof, CSE Dept, DrTTIT, KGF | Online |
| | Keynote Address2 | | Mr.Naveen Sonkar, DGM-R&D, Product Engineering Department,BEML, Ltd, KGF | Online |
| 11.00AM-1.00 PM | 1 | Parallel Session1(CSE & Applied science ) | Dr.Meenakshi Sundaram, Prof and Head, CSE Dept, GSSSS, Mysore | Online |
| | | | Prof. Punitha, CSE Dept, DrTTIT, KGF | |
| | 2 | Parallel Session2 (ECE) | Dr.Aparna Ganesan, Associate Professor, Narasus Sarathy College of Technology, Salem, Tamil Nadu | Online |
| | | | Prof.M VijayaBharathi, Professor and Head, ECE Dept, DRTTIT, KGF | |
| | | Parallel Session2 (EEE) | Dr.Venkatesha, Professor, BNMIT,Bangalore | Online |
| | | | Dr.N.LakshmiPathy, Professor& Head, EEE Dept, DRTTIT, KGF | |

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| | | | | |
|---|---|---|---|---|
| | 3 | Parallel Session3 (Mining) | Prof.C.H.S.N.Murthy. Professor, Mining Department, NITK, Suratkal,<br>Prof.Paul Prasanna Kumar, Associate professor, Mining Department, DRTTIT, KGF | Online |
| | 4 | Parallel Session 4 (Mech & HS) | Dr. Kiran Aithal S, Professor, Department of Mechanical Engineering, | Online |
| 1.00 PM-2.00 PM | LUNCH | | | |
| 2.00 PM-3.30PM | 1 | Parallel Session1 (CSE & Applied science ) | Dr.Loganathan R , Prof & Head, CSE Dept,HKBK College of Engineering, , Bangalore<br>Prof.Hamsa latha, CSE Dept, DrTTIT, KGF | Online |
| | 2 | Parallel Session2 ( ECE) | Dr.M.Bhuvaneswari, Professor&Head, Indira Ganesan College of Engineering , Trichy, Tamilnadu<br>Dr.Bhuvasendiran T, Associate Professor/ECE Dept, DRTTIT, KGF | Online |
| | 3 | Parallel Session3 ( Mining) | Prof.C.H.S.N.Murthy. Professor, Mining Department, NITK, Suratkal,<br>Prof.John Gladius, Associate professor, Mining Department, DRTTIT, KGF | Online |
| | 4 | Parallel Session 4 (Mech & HS) | Dr. N. Kapilan, Professor, Department of Mechanical Engineering,NMIET, Bangalore<br>Dr.Narasimha C, Associate professor, Mining Dept, DRTTIT, KGF | Online |
| 3.30 PM-3.45 PM | Tea break | | | |
| 3.45 PM-4.45 PM | VALEDICTORY FUNCTION | | | |
| 3.45 PM-4.00 PM | Welcome Address | | Dr.H.G.Shenoy, Vice Principal, DrTTIT, KGF | Online |
| 4.00 PM-4.15PM | Outcomes of Conference | | Dr.K.M Palaniswamy, Professor, ECE Dept, DrTTIT | Online |
| 4.15PM-4.30PM | Feedback | | By the Participants through Online | Online |
| 4.30PM-4.45PM | Vote of Thanks | | Dr. A Jenitha, Professor, ECE Dept, DRTTIT | Online |

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Dr. T. Thimmaiah Institute of Technology
Oorgaum, K.G.F- 563120

# THE GOLDEN VALLEY EDUCATIONAL TRUST

**The Golden Valley Educational Trust (GVET)** was established in 1962. Since then the Institute has uninterruptedly engaged in its mission of providing higher education to thousands of students from KGF as well as surrounding places. Late Dr.T.Thimmaiah, IAS (Rtd.) President Emeritus, a visionary and educationalist, strived in his life time in building these educational institutions for providing quality education for the aspiring students from KGF Mining Township particularly for economically and socially weaker sections. Following in the footsteps of late President Emeritus, his son Dr.T.Venkat Vardhan as President, GVET continued to work to fulfill his father's vision. Under Dr. T. Venkat Vardhan's dynamic leadership the institutions are witnessing rapid growth.

Dr.T.Venkat Vardhan, is also Managing Director of a premier event management industry viz. DNA Entertainment Networks Pvt Ltd.

Dr.T.Thimmaiah Institute of Technology (Dr.TTIT) under GVET offers engineering degrees in six disciplines, namely Mech., Civil, Mining, Electrical, Electronics & Communication, and Computer Science. The Institute is equipped with super infrastructure facilities, state of the art modern workshops and laboratories. The outgoing graduate engineers are being preferred by top companies for their engineering skills and knowledge. Academically, students of Dr.TTIT excel in technical education on par with top ranking engineering institutions in the country. The students have so far secured 52 VTU Ranks and the Institution is ranked 12th among 200 Colleges under VTU.

For the young and aspiring students to make their dreams realized Dr. T.Venkat Vardhan, President, GVET, with his seed money has instituted 'Dr. T. Venkat Vardhan Centre for Excellence' - a Research Study Centre. Further, the poor and meritorious students are given financial assistance to continue their education by paying their tuition fees from President's DNA-CSR funds. In sports, it is noteworthy to mention that the prestigious 19th VTU Athletic Meet-2016 was co-hosted by Dr.

T.Thimmaiah Institute of Technology at its sports complex wherein around 2000 athletes including coaches and supporting staff from 132 colleges under VTU participated, thus setting a bench mark for the future VTU athletic meets. The Golden Valley Educational Trust under the dynamic leadership of Dr. T. Venkat Vardhan, President, GVET will continue to provide facilities to all students to achieve their dream career. On the occasion of 'First International Conference on Recent Trends in

Technology, Engineering and Applied Sciences' we are proud to inform that all the staff of Dr.TTIT will dedicate our self to contribute to the growth of the Institution.

***G H Kotnise***
Special Officer
Golden Valley Educational Trust

PRINCIPAL
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F- 563120

# FOREWORD

**Dear Authors, Esteemed Readers,**

I write this Foreword to the Proceedings of **Dear Authors, Esteemed Readers,**

I write this Foreword to the Proceedings of the 3rd Virtual International conference on Recent Trends in Technology, Engineering and Applied Science ICRTTEAS-2021) will be held during 19th and 20th July 2021'

We welcome all the delegates and students arrived from different destinations to this conference. Dr.TTIT emphasis learning process on student centred and strive to impart knowledge and skill looking at the recent trends and innovations in science and technology. Inculcates a sense of thinking and reasoning skills in students thereby to enlarge the scope of acquiring sensible knowledge. Dr.TTIT merge students with developing academics with the more established academic community in an informal setting to discuss new and current network. In this direction ICRTTEAS-2021 organized to give a platform to students to exibit their skill and talents.

We have received a good number of papers for submission in ICRTTEAS-2021. The high quality of papers submitted enables discussion forum between researchers, academicians and the industry related experts in their respective fields. All the paper contributors have made outstanding by enlightening more recent scientific knowledge in the field of engineering and applied sciences. The oral presentation is to be held at different venues in the campus to facilitate parallel sessions. The subject experts are chairing the sessions and offering their suggestions and delivering the end application of their research work.

We are proud to inform that the Key note address is being delivered by Mr.Charles Divinesh, Chairman Australian Indian Resource Ltd, Australia, Miss,Maria Vidhya Kotnees, Cyber Developer, IBM, New Brunswick, Canada, Mr. Sadasivam V, AMC Eng, MICE, General Manager, Larsen & Toubro Ltd, Chennai, Mr. Naveen Sonkar, DGM-R & D, Product Engineering Department, BEML, BEML Ltd, KGF The Inaugural address will be delivered by our beloved President, GVET Dr. T. Venkat Vardhan.

Two awards are delivered at the end of the closing session, to recognize the best conference paper and the best student paper.

We would like to extend our sincere thanks to first of all, to all the authors of technical papers, whose work and dedication made possible together of high technical quality. Next would like to thank our President, GVET Dr.T.Venkat Vardhan, for his support and encouragements. We also thank the members of the Organizing committee, invited speakers and reviewers for sparing their valuable time. Our special thanks to DNA Officials for rendering logistic support for the event.

Wishes to all the participants, delegates and the invitees.

***Dr. SyedAriff***
Principal, Dr.TTIT

19/12/21
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F- 563120

# Visvesvaraya Technological University

"Jnana Sangama"

Belagavi - 590 018, Karnataka State.

*Dr. Karisiddappa,* B.E, M.Tech., Ph.D
*Vice Chancellor*

Phone :(0831)2405454
Fax :(0831)2405456


**Ref. No.: VTU/VCS/2020-21/21**

## *MESSAGE*

*I am delighted to note that Dr. T. Thimmaiah Institute of Technology, KGF, is organizing International Conference on Recent Trends in Technology, Engineering and Applied Sciences , during* 19th *and* 20th *July 2021*

*I appreciate the efforts of the college in organizing the Conference via virtual mode of communication during this challenging period of COVID-19 Pandemic. I am sure this Conference will provide useful platform to demonstrate the research findings and prototypes and will attract the leading national and international experts to address the sessions. I wish all the success to ICRTSTEAS-2021*

*My best wishes to the organisers of this International Conference and wish the Proceedings of the Conference to be a rich source of knowledge to the academic society.*

*All the best to the participants of the said Conference.*

*Dr. Karisiddappa*
Vice Chancellor

To
The Principal
Dr T Thimmaiah Institute of Technology,
Oorgaum, Kolar Gold Fields – 563 120


Phone: (0831)-2405454, Fax: (0831)-2405456, e-mail: vc@vtu.ac.in, website: www.vtu.ac.in


19/12/21

Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F- 563120

# MESSAGE

I am very happy to be associated with 3rd Virtual International conference on Recent Trends in Technology, Engineering and Applied Science" (ICRTTEAS-2021) will to be held during 19th and 20th July 2021'

It is a matter of pride to be a part of this International conference which will be represented by eminent Scientists, Technocrats and Scholars from prime research institutions and learning centres in Engineering and Applied Science. The deliberations will shed light on the issues related to recent trends in science and technology and the upcoming innovations.

As an Institutional head I welcome scientific Fraternities from Industries and academicians to this International conference for a purposeful participation.

I Congratulate, principal, Head of the Departments, Faculty Members and Students for organizing this virtual International conference

On this occasion, I welcome all the delegates to this Virtual Conference and wish them all the Success.

***Dr. T Venkat Vardhan***
President, GVET

19/7/21
PRINCIPAL
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F- 563120

# MESSAGE

I am privileged to offer my greetings as Principal of Dr.T.Thimmaiah Institute of Technology for the 3rd Virtual International conference on Recent Trends in Technology, Engineering and Applied Science" (ICRTTEAS-2021) will to be held during 19th and 20th July 2021'

It is indeed a pleasure to invite scientists, engineers, talented student communities cutting across all the disciplines for this International Conference from different destination. Trust this conference will be a platform to share the insight into the recent research and cutting-edge technologies thus making the discussion internationally competitive for focusing on various human needs.

Following globalised world, there is a critical need to develop norms for promoting integrity in research at an international level. I wish this International Conference be a landmark containing productive application in innovations.

I congratulate Heads of Departments of all the Engineering disciplines and basic science and supporting staff of Dr.TTIT for taking keen interest in organizing this Conference.

I wish all the participating delegates a purposeful deliberation.

***Dr. SyedAriff***
Principal, Dr.TTIT

19/7/21

Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F- 563120

# MESSAGE

I am Delighted that our college is conducting Third 3rd Virtual International conference on Recent Trends in Technology, Engineering and Applied Science" (ICRTTEAS-2021) will to be held during 19th and 20th July 2021

I congratulate the Organising and Publication committee members for their dedication and relentless work during this pandemic in conducting this Virtual International conference. I also take this opportunity to invite all the delegates, scientists, research scholars and students from all disciplines for this conference.

I hope the that the outcomes of the conference would bring effective solution to most of our day to day Problems and spread technical knowledge required for future generation. This will be a step towards "Atmanibhar Bharath"

I wish you all the success.

***Dr H G Shenoy,***
Vice Principal, Dr.TTIT

19/12/21
PRINCIPAL
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F- 563120

# MESSAGE

I am immensely happy that our college is organizing a "Third International Conference on Recent Trends in Technology, Engineering and Applied sciences (Virtual)"- ICRTTEAS 2021 from 19th and 20th July 2021, in which a collection of technical and research papers will be presented and published.

I am glad to know that the souvenir consisting of the abstracts of the paper will be released during the conference. I congratulate the organizers and the participants and wish the virtual conference a grand success during the pandemic.

***Prof. Ruckmani Divakaran***
Dean (Academics),
General chair, ICRTTEAS-2021,
KGF

10/12/21
PRINCIPAL
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F- 563120

# Data Warehouse Design for Business Intelligence and Approach for Covid-19 Pandemic

[1]Anilkumar Biradar, [2]Dr. Usha ,[3]Kamal Raj T, [4]Jeyabalan S,[4]Nikhita Biradar

Assistant professor, Dept of CSE, NMIT, Bangalore

[1]PG Scholar, 2nd Year Mtech, Dept of CSE,RRCE,Bangalore.

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## ABSTRACT

Data warehouses, which serve as decision support systems, standardize data across the enterprise to create a single perspective of information. Decision makers can get the information they need from data warehouses. The creation of a data warehouse for this pandemic situation will be mainly to support to handle the situation based on the open datafrom government bodies. This open data can be very huge and should be categorized based on requirements and needs of analyzing, Hadoop Distributed File System will be best choice to store and maintain the data and Apache spark framework will be used as analyzing tool to get the insights and various reports. Using open source data warehousing and data mining tools, the current study shows how to create a data warehouse and extract useful data..These reports can be very critical in making any decisions by government or public during this pandemic situation.

15/12/21
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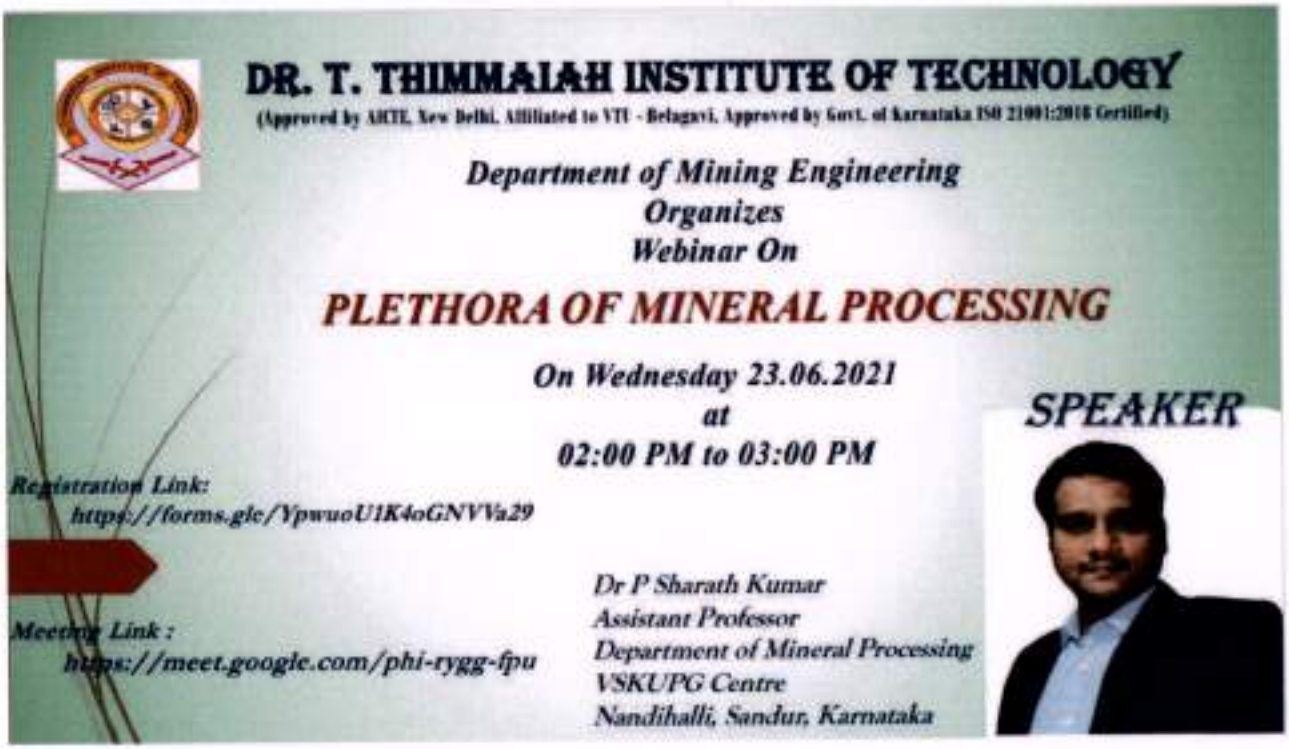
## Webinar Poster




## Program Agenda

**Dr. T.Thimmaiah Institute of Technology**
**Oorgaum, KGF-563120**

Virtual Webinar on "*PLETHORA OF MINERAL PROCESSING*"

Date: 23.06.2021
Timing: 02:00 to 03:00 PM

### PROGRAMME AGENDA

| | |
|---|---|
| □ Welcome Speech by: | Prof Paul Prasanna Kumar<br>Associate Prof, Dept of Mining, Dr.TTIT, KGF |
| □ Speech by HoD: | Dr Manas Mukhopadhyay<br>HOD, Dept of Mining, Dr.TTIT, KGF. |
| □ About the Session Speaker: | Ms Nishath Fatima<br>VIII Sem, Dept of Mining, Dr.TTIT, KGF |
| □ Session Speaker: | Dr P Sharath Kumar<br>Assistant Professor, Department of Mineral Processing, VSKUPG Centre, Nandihalli, Sandur, Karnataka |
| □ Vote of Thanks: | Dr Manjunath A<br>Associate Prof, Dept of Mining, Dr.TTIT, KGF |

25/06/2021

PRINCIPAL
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F- 563120

## Registration Details

| Sl No | Timestamp | Username | Name | Designation/USN/Register No | Branch | College/University |
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26/04/2021

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20/6/2021

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| 58 | 2021/06/23 6:38:53 PM GMT+5:30 | venkateshlucky2424@gmail.com | Venkatesh E | 1GV19MI045 | Mining | Dr.Ttit |
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## Certificate

GOLDEN VALLEY EDUCATIONAL TRUST

**Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY**

Oorgaum, Kolar Gold Fields - 563 120.

Affiliated to Visvesvaraya Technological University Belagavi

Approved By AICTE Govt. of India New Delhi | ISO 21001: 2018 Certified

GVET

CERTIFICATE OF PARTICIPATION

This certificate is presented to

Mr Anees

Dr TTIT

for attending webinar on "PLETHORA OF MINERAL PROCESSING" organised by Department of Mining Engineering, Dr. T.T.I.T, KGF, on 23rd June, 2021.

Dr. Manas Mukhopadhyay
Head

Prof. Ruckmani Divakaran
Dean (Academics)

Dr. H.G. Shenoy
Vice Principal

Dr. Syed Arif
Principal

26/06/2021

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GVET GROUP OF INSTITUTIONS

# ICRTTEAS 2020

July 24th-25th

## 2nd International Conference on Recent Trends in Technology, Engineering and Applied Science

**July 24th & 25th 2020**

www.icrtteas.com

## Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

Oorgaum, Kolar Gold Fields, Karnataka - 563120

www.drttit.edu.in

Affiliated to Visvesvaraya Technological University, Belagavi

Approved by All India Council for Technical Education, New Delhi, Estd. 1986



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# Organising Committee

## Chief Patron

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President, Golden Valley Educational Trust

## Patrons

**Dr. Syed Ariff, Principal,** Dr. TTIT, KGF
**Dr. H. G. Shenoy, Vice Principal,** Dr. TTIT

## Convener

**Prof. Ruckmani Divakaran,** Dean, Dr. TTIT

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**Dr. S. Sreedhar Kumar,** HOD, CSE, Dr. TTIT
**Dr. Lakshmipathy N,** HOD, EEE, Dr. TTIT
**Dr. Ramesh K, HOD,** MI.Engg., Dr. TTIT
**Dr. Kalyana Kumar S,** HOD Maths
**Prof. Maneela M,** HOD Civil Engg, DR. TTIT

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Dr. ValentinaBalas, Professor, AUREL VLAICU, University of ARAD,Romania.
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Prof. Hani Mitri, Professor & Director, Dept. of Mining Eng., McGill University, Montreal, Canada.
Dr. Sudhir, Professor & Head, Dept. of Mech. Eng., Caledonian College of Eng., University of Science & Technology, Muscat Oman.
Dr. Dharmasa, Professor, Dept. of Elec. & Computer Eng., Caledonian College of Eng., University of Science & Technology, Muscat Oman.
Dr. Ch.S.N. Murthy, Professor, Dept. of Mining, NITK, Suratkal.
Dr. M. Madheswaran, Principal, MEC, Namakkal, Tamilnadu.
Dr. Punitha, Principal, BCE, Salem, Tamilnadu.

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# ICRTTEAS 2020

May 16th - 17th

2nd International Conference
On
Recent Trends in Technology, Engineering and Applied Science

**May 16th & 17th 2020**

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www.drttit.edu.in

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**Prof. Syed Thouheed Ahmed**
Placement Officer & Assistant Prof. CSE
Cell: 91- 7975509524
syed@drttit.edu.in

### Important Dates :

16th April 2020 : Deadline for submission of full papers
20th April 2020 : Decision/ Acceptance / Rejection Notification
25th April 2020 : Final Paper Submission and Registration

### Submission Guidance :

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Submit papers to :
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Academicians, Students, Research scholars, Professionals and Engineer's in the various fields of Computer Science, Electronics & Communication, Electrical, Mechanical, Mining, Civil Engineering, Applied Science and Mathematics are invited to contribute research papers and participate in the conference. Contributions are strongly encouraged to describe manuscripts on conceptual, empirical and case studies. We invite original (un-published) research contributions based on the mentioned tracks given below.

Track 1 - Computer Science and Engineering
Track 2 - Electronics and Communication Engineering
Track 3 - Electrical and Electronics Engineering
Track 4 - Mechanical Engineering
Track 5 - Mining Engineering
Track 6 - Civil Engineering
Track 7 - Applied Sciences (Mathematics, Physics and Chemistry)

# GOLDEN VALLEY EDUCATIONAL TRUST

**Dr. T. VENKAT VARDHAN**
President

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Mobile : 09482848644
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17.07.2020

## MESSAGE

I am very happy to be associated with "Second International Conference on Recent Trends in Technology, Engineering and Applied Sciences (Virtual)" – ICRTTEAS to be held from 24th and 25th July 2020 at Dr. T Thimmaiah Institute of Technology, K.G.F

It is a matter of pride to be part of this virtual conference which will be represented by eminent scientists, technocrats and scholars from premier research institutions and learning centers in engineering and applied sciences in this pandemic era. The deliberations will shed light on the issue related to recent trends in science and technology and upcoming innovations.

As an institutional head, I welcome scientific fraternities from industries and academics to this international conference for a purposeful participation.

I congratulate Principal, Convener, Head of the departments, faculty members and students for organizing this international virtual conference.

On this occasion, I welcome all the delegated to the conference and wish them all success.

**Dr. T VenkatVardhan**
President

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**Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY**

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Ph: 08153 265413 | principal@drttit.edu.in | www.drttit.edu.in

17/07/2020

## MESSAGE

I am privileged to offer my greetings as Principal of Dr.T.Thimmaiah Institute of Technology for the maiden 'Second International Conference on Recent Trends in Technology, Engineering and Applied Science' (Virtual) to be held on 24th and 25th July 2020.

It is indeed a pleasure to invite scientist, Engineers, Talented student communities cutting across all the disciplines for this International conference from different destination. Trust this conference will be a platform to share the insight into the recent research and cutting-edge technologies thus making the discussion internationally competitive for focusing on various human needs.

This International Conference is blended into the challenging pandemic scenario by conducting the virtual met up conference which is a way forward to be a new normal. Following Globalized world, there is a critical need to develop norms for promoting integrity in research at an international level. I wish this International conference be a landmark containing productive application in Innovations.

I Congratulate, Convener, Organizing Committee members, Head of Department of all the Engineering disciplines and basic science and supporting staff of Dr TTIT, KGF for taking keen interest in organizing this conference.

I wish all the participating delegates a purposeful deliberation.

17/7/2020

**Dr. Syed Ariff**

Principal

Golden Valley Educational Trust

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17.07.2020

## MESSAGE

I am happy that our college is conducting "Second International Conference on Recent Trends in Technology, Engineering and Applied Sciences (Virtual)" ICRTTEAS to be held from 24th and 25th July 2020.

I congratulate the organizing and committee members for they dedication and restless support during this pandemic in conducting a virtual international conference. I take this opportunity to invite all the delegates, scientist, research scholars, engineers and technocrats of all discipline for this conference.

I hope that the outcomes of the conference would bring an effective solution to most of the problems faced in technological society. The inter-disciplinary scientific knowledge required for future generation to make our country self-sustained "Athmanirbhar Bharath" aligning the call of innovation and incubation from MHRD's Innovation cell

I wish you all the successes.

17/07/2020

Dr. T G Shenoy

Vice Principal & President IIC Dr. TTIT

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17.07.2020

## MESSAGE

I am immensely happy that our college is organizing a "Second International Conference on Recent Trends in Technology, Engineering and Applied Sciences (Virtual)"- ICRTTEAS to be held from 24th to 25th July 2020.In the Conference collection of various technical and research papers.

The conference will provide a platform for the academicians, students, research scholars and industrial experts in various fields to interact and to enlighten themselves about the latest developments.

I congratulate the organizers and the participants and wish the virtual conference a grand success during the pandemic.

17.7.2020

**Prof.Ruckmani Divakaran**

Convener
ICRTTEAS 2020

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| 1 | An Improved Approach of Unstructured Text Document Classification Using Predetermined Text Model and Probability Technique | Sreedhar Kumar S, Syed Thouheed Ahmed, Mercy Flora P, Hesmanth L S, Aishwarya J, Rahul Gopal Naik, Ayesha Fathima | syed@drttit.edu.in | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304041 |
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| 10 | Diagnosing the level of Glaucoma from Fundus Image Using Empirical Wavelet Transform | Narayana Swamy R[1], Syed Thouheed Ahmed[2*], Thanuja K[3], Ashwini S[4], Syeda Ayesha Siddiqha[4], Afifa Salsabil Fathima[4] | syed.edu.in@gmail.com | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304035 |
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| 13 | VANET's Security, Privacy and Authenticity: A Study | Asma Parveen[1], Syed Thouheed Ahmed[2*], Raafiya Gulmeher[1], Ruksar Fatima[1] | syed.edu.in@gmail.com | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304038 |
| 14 | OTA Based 2nd Order Butterworth Filter For Mobile Communication using CMOS Technology | M Vijaya Bharathi, K Akshitha, M G Divyashree, B R Nagakrupa, J K Sindhu | vijayabharathi@drttit.edu.in | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304039 |
| 15 | Enhancing Accessibility of Messages Using Clustering and Labeling In Micro blogging' | Syed Thouheed Ahmed, Charan K V, Sudha V, Suma H, Sindhu M, Shree Ranjani J, Prerana K Jayaprakash | Syed@drttit.edu.in | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304025 |
| 16 | An IoT Based Smart Inverter Design | Veena B, Subhashree S, Swathi S, Revathi R | veena@drttit.edu.in | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304042 |

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| 17 | A Network Intrusion Detection System Using Supervised Learning Techniques | Shalini G, Jaya Kumar M, Abhishek P, Dhamodaran M | shalini@drttit.edu.in | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304044 |
| 18 | A New Technique of digital Certificate Using Blockchain Technology | Leelavathy S R, S Divyashree, Sneha P, Preethi S Pattar, Sananth Kumar R S | leelav48@gmail.com | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304045 |
| 19 | Skin Cancer Recognition and Detection Using Machine Learning Algorithm | A. Jenitha, G. Amrutha, K.L. Kishore, K.R. Rohan, S.N. Sagar | jenitha@drttit.edu.in | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304046 |
| 20 | Numerical Simulation and Design Validation of Ball Valve For class 150 bar using FEM | Mohan Kumar M, Kiran Kumar P | mohankumarm7411@gmail.com | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304047 |
| 21 | Effect of Cooling Rate on Mechanical Properties of ASTM Grade Steel | Devaraj M R1, Joel Hemanth2 | mrdatme@gmail.com | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304048 |

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| 22 | UV Visual Spectral Response of Transformer Oil Under The Impact of Thermal and Electrical Stress | Murugesan Srinivasan[1], Sumarkumar Bumwal[2] | srinimeha@gmail.com | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304049 |
| 23 | Design and Development of Marine Data Collecting Wave Rider – Towards a New Paradigm | Khalique Ejaz Ahmed, B M Nagesh, Karthik Suriya Narayanan, Alan Joel Cooper, Abhishek Kumar Singh | karthiksnarayanan28498@gmail.com | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304051 |
| 24 | EARLY STAGE DETECTION AND CLASSIFICATION OF BREAST CANCER | C Sai DeepReddy, Yeturi Ram Mohan, Chandana S, Kavya S, Chaitra P C | yeturirammohan@gmail.com | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304093 |
| 25 | Corrosion Characterization of Friction Stir Weld Joints of Dissimilar Aluminum Alloys | Ramesha K[1,2*], P D Sudersanan[1], Santhosh N[2], Sasidhar Jangam[3] | ramesha.kra@gmail.com | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304097 |
| 26 | Roof Pond with Intermittent | Sanjay V. Lipare[1], Nagaraj | sanjaylipare13@gmail.co | https://eudl.eu/doi/10. |

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| | Pumping as Passive Cooling alternative for Reinforced Cement Concrete Roof Top Slab | S. Patil[2], Suresh G. Patil[3], Avinash M. Potdar | m | 4108/eai.16-5-2020.2304098 |
| 27 | Comprehensive Analysis of Classifier to Identify Sentiment in Football Specific Tweets | Venkatesh, Keerthi C V, Nagaraj Y, Swetha S | vekateshm.uvce@bub.ernet.in | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304099 |
| 28 | Investigation and Characterization of Soil for River Bank Filtration System | VijayaKumar H[1], Nagaraj S Patil[2], Sanjeev Sangami[3] | vijaykumarhhalli@gmail.com | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304100 |
| 29 | Design and Structural Mechanics of a Modified Wood – Composite Integrated Propeller Blade | Sasidhar Jangam[1,*], Sagar Verma [1], Ramesha K[1] | sasidhar.jangam@christuniveristy.in | https://eudl.eu/doi/10.4108/eai.16-5-2020.2304101 |

Dr. T. Thimmaiah Institute of Technology

# ICRTTEAS 2019

April 12 - 13

## 1ST INTERNATIONAL CONFERENCE ON RECENT TRENDS IN TECHNOLOGY, ENGINEERING AND APPLIED SCIENCE.

Organized By:

**Dr. T. Thimmaiah Institute of Technology**

Oorgaum, KGF-562 123.

**(AICTE Approved, VTU Affiliation)**

# Programme schedule for 12th and 13th April 2019

| FRIDAY 12 APRIL 2019 | | |
|---|---|---|
| **Time** | **Schedule** | **Venue** |
| 8.30am-10.30am | Registration and High Tea | Students Centre |
| 10.00am-12.30pm | Inaugural session | Students Centre |
| 12.30pm-1.30pm | Lunch | Cafetaria |
| 1.30pm-3.00pm | Parellel session 1 (CSE & Applied science ) | Students Centre |
| | Parellel session 2 (EEEand ECE) | E Shikashana Centre |
| | Parellel session 3 (Civil and Mining) | Dr.TVV Smart Hall |
| | Parellel session 4 (Mech) | Mechanical Seminar Hall |
| 3.00pm-3.15pm | Tea Break | |
| 3.15pm-4.45pm | Parellel session 1 (CSE & Applied science ) | Students Centre |
| | Parellel session 2 (EEEand ECE) | E Shikashana Centre |
| | Parellel session 3 (Civil and Mining) | Dr.TVV Smart Hall |
| | Parellel session 4 (Mech) | Mechanical Seminar Hall |
| 4.45pm-5.15pm | Photo session | Amphi Theatre |

| SATURDAY 13 APRIL 2019 | | |
|---|---|---|
| **Time** | **Schedule** | **Venue** |
| 9.00am-10.00am | Registration | Students Centre |
| 10.00am-10.30am | Keynote Address | Students Centre |
| 10.30am-10.45am | Tea break | Cafetaria |
| 10.45am-1.00pm | Parellel Session 1 (CSE & Applied science ) | Students Centre |
| | Parellel Session 2 (EEEand ECE) | E Shikashana Centre |
| | Parellel Session 3 (Civil and Mining) | Dr.TVV Smart Hall |
| | Parellel Session 4 (Mech) | Mechanical Seminar Hall |
| 1.00pm-2.00pm | Lunch | Cafetaria |
| 2.00pm-3.00pm | Parellel Session 1 (CSE & Applied science ) | Students Centre |
| | Parellel Session 2 (EEEand ECE) | E Shikashana Centre |
| | Parellel Session 3 (Civil and Mining) | Dr.TVV Smart Hall |
| | Parellel Session 4 (Mech) | Mechanical Seminar Hall |
| 3.00pm-3.15pm | Tea Break | Cafetaria |
| 3.15pm-4.430pm | Valedictory Function | Students Centre |
| 4.30pm -5.00pm | Certificate distribution and photo session | Students Centre |

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Dr. SeshadriRao K, Professor, Dept. of English, Dr. TTIT,

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Mr. Thangaraj R, Accounts Head, GVET,

Ms. Anjali H V, Accounts, GVET.

## THE GOLDEN VALLEY EDUCATIONAL TRUST (GVET)

**The Golden Valley Educational Trust (GVET)**was established in 1962. Since then the Institute has been uninterruptedly engaged in it'smission of providing higher education to thousands of students from KGF as well as surrounding places. Late Dr.T.Thimmaiah, IAS (Rtd.) President Emeritus, a visionary and educationalist, strived in his life time in building these educational institutions for providing quality education for the aspiring students from KGF mining township particularly for economically and socially weaker sections. Following in the footsteps of late President Emeritus, his son Dr.T.Venkat Vardhan as President, GVET continued to work to fulfill his father's vision. Under Dr. T. Venkat Vardhan's dynamic leadership the institutions are witnessing rapid growth. Dr.T.Venkat Vardhan, is also Managing Director of a premier event management industry viz. DNA Entertainment Networks Pvt Ltd.

During the British Raj, when M/s John Taylor & Co used to operate the gold mines KGF town used to be called as 'Little England' for its all-time pleasant weather and scenic beauty. Numerous mining shaft headgears dotting the mined-out area, bear a proud witness to its past glory for having produced about 800 tons of gold. After, the suspension of mining activities, KGF city came to berecognised as an important educational hub for acquiring professional career in Engineering, Law, Commerce, Management and other basic degrees.

Dr.T.Thimmaiah Institute of Technology (Dr.TTIT) under GVET offers engineering degrees in six disciplines, namely Mech., Civil, Mining, Electrical, Electronics & Communication, Computer Science. The Institute is equipped with super infrastructure facilities, state of the art modern workshops and laboratories. The outgoing graduate engineers are being preferred by top companies for their engineering skills and knowledge. Academically, students of Dr.TTIT excel in technical education on par with top ranking engineering institutions in the country. The students have so far secured 52 VTU Ranks and the Institution is ranked 12th among 200 Colleges under VTU.

For the young and aspiring students to make their dreams realized Dr. T.Venkat Vardhan, President,GVET, with his seed money has instituted 'Dr. T. Venkat Vardhan Centre for Excellence' - a Research Study Centre. Further, the poor and meritorious students are given financial assistance to continue their education by paying their tuition fees from President's DNA-CSR funds. In sports, it is noteworthy to mention that the prestigious 19th VTU Athletic Meet-2016 was co-hosted by Dr. T.Thimmaiah Institute of Technology at its sports complex wherein around 2000 athletes including coaches and supporting staff from 132 colleges under VTU participated, thus setting a bench mark for the future VTU athletic meets. The Golden Valley Educational Trust under the dynamic leadership of Dr. T. Venkat Vardhan, President, GVET will continue to provide facilities to all students to achieve their dream career. On the occasion of 'First International Conferenceon Recent Trends in Technology, Engineering and Applied Sciences' we are proud to inform that all the staff of Dr.TTIT will dedicate our self to contribute to the growth of the Institution.

***G H Kotnise***
Special Officer
Golden Valley Educational Trust

19/12/17

Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F. 563120

# Foreword

**Dear Authors, esteemed Readers,**

I write this Foreword to the Proceedings of the First International Conference on the Recent Trends in Technology, Engineering and Applied Sciences' to be held at Dr.T.Thimmaiah Institute of Technology (Dr.TTIT) at Kolar Gold Fields from April 12-13, 2019. We welcome all the delegates and students arrived from different destinations to this conference. Dr.TTITemphasis learning process on student centred and strive to impart knowledge and skill looking at the recent trends and innovations in science and technology. Inculcates a sense of thinking and reasoning skills in students thereby to enlarge the scope of acquiring sensible knowledge. Dr.TTITmerge students with developing academics with the more established academic community in an informal setting to discuss new and current network. In this direction ICRTTEAS-2019 organized to give a platform to students to exibit their skill and talents.

We have received a good number of papers for submission in ICRTTEAS-2019. The high quality of papers submitted enables discussion forum between researchers, academicians and the industry related experts in their respective fields. All the paper contributors have made outstanding by enlightening more recent scientific knowledge in the field of engineering and applied sciences. The oral presentation is to be held at different venues in the campus to facilitate parallel sessions. The subject experts are chairing the sessions and offering their suggestions and delivering the end application of their research work.

We are proud to inform that the Key note address is being delivered by Prof. Kincha former Vice-Chancellor, VTU and Sri Charles EE Devenish, Chairman, Australian Indian Resources Pvt. Ltd., Dr. H S Venkatesh Director, National Institute of Rock Mechanics and other eminent scholars. The Presidential address will be delivered by our beloved President, GVET Dr.T.Venkat Vardhan.

Two awards are delivered at the end of the closing session, to recognise the best conference paper and the best student paper.

We would like to extend our sincere thanks to first of all, to all the authors of technical papers, whose work and dedication made possible togather of high technical quality. Next would like to thank our President, GVET Dr.T.Venkat Vardhan, for his support and encouragements. We also thank the members of the Organizing committee, invited speakers and reviewers for sparing their valuable time. Our special thanks to DNA Officials for rendering logistic support for the event.

Wishes to all the participants, delegates and the invitees.

***Dr.SyedAriff***
Principal, Dr.TTIT

19/12/19

PRINCIPAL
Dr. T. Thimmaiah Institute of Technology
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ಜೆ. ಮಂಜುನಾಥ್, ಭಾ.ಆ.ಸೇ.,
ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು ಮತ್ತು ಜಿಲ್ಲಾದಂಡಾಧಿಕಾರಿಗಳು
ಕೋಲಾರ ಜಿಲ್ಲೆ, ಕೋಲಾರ.

J. Manjunath, I.A.S.,
Deputy Commissioner & District Magistrate
Kolar District, Kolar

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
Government of Karnataka

Off : 08152-222001
Fax : 08152-222133
Mob : 94800 31010
e-mail : deo.kolar@gmail.com
dcoffice.klr@gmail.com

3rd April 2019

## MESSAGE

I am extremely happy to learn that 'First International Conference on Recent Trends in Technology, Engineering and Applied Sciences to be held on 12th and 13th April 2019 at the premier Engineering college Dr.T.Thimmaiah Institute of Technology, K.G.F.

It is a pride for the Kolar District that such an effort is taken to organize the event bringing all the industrial experts and research scholars from different destinations for deliberation on the scientific innovations and recent know-how in science and technology. Trust this conference will set the phase for recent innovations and its applicable to human needs.

I congratulate organizers and participating delegates in the International Conference.

I wish all the success and congratulate the organizers.

J.Manjunath, IAS.,
Deputy Commissioner,
Kolar District

ಜಿಲ್ಲಾಧಿಕಾರಿ ಭವನ, ಕುಂಬಾರಹಳ್ಳಿ, ಟಮಕ ಪೋಸ್ಟ್, ಕೋಲಾರ - 563 103.
District Complex, Kumbarahalli, Tamaka Post, Kolar - 563 103.

Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F-563 120

# GOLDEN VALLEY EDUCATIONAL TRUST

**Dr. T. VENKAT VARDHAN**
President

GVET

## MESSAGE

I am very happy to be associated with the 'First International Conference on Recent Trends in Technology, Engineering and AppliedSciences to be held on 12th and 13th April 2019 atDr. T.Thimmaiah Institute of Technology, K.G.F.

It is a matter of pride to be part of this maiden Conference which will be represented by eminent scientists, technocrats and scholars from Premierresearch Institution and learning centres in engineering and applied sciences. Thedeliberations will shed light on the issues related to recent trend in science and technology and the upcoming innovations.

As an institutional head, I welcome scientific fraternitiesfrom Industries and academicians tothis International Conference for a purposeful participation.

I congratulate Principal, Head of the Departments, faculty members and students for organizing this International Conference.

On this occasion I welcome all the delegates to the conference and wish them all success.

2nd April 2019

Dr. T Venkat Vardhan
President



Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F- 563120

Golden Valley Educational Trust

# Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

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Oorgaum, Kolar Gold Fields - 563120

Ph: 08153 265413 | principal@drttit.edu.in | www.drttit.edu.in

## MESSAGE

I am privileged to offer my greetings as Principal of Dr.T.Thimmaiah Institute of Technology for the maiden "First International Conference on Recent Trends in Technology, Engineering and Applied Sciences to be held on 12th and 13th April 2019.

It is indeed a pleasure to invite scientists, engineers, talented student communities cutting across all the disciplines for this International Conference from different destination. Trust this conference will be a platform to share the insight into the recent research and cutting-edge technologies thus making the discussion internationally competitive for focusing on various human needs.

Following globalised world, there is a critical need to develop norms for promoting integrity in research at an international level. I wish this International Conference be a landmark containing productive application in innovations.

I congratulate Heads of Departments of all the Engineering disciplines and basic science and supporting staff of Dr.TTIT for taking keen interest in organizing this Conference.

I wish all the participating delegates a purposeful deliberation.

Dr. Syed Ariff.
Principal.

Dr. T. Thimmaiah Institute of Technology
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## MESSAGE

I am happy that our college is conducting First International Conference on Recent Trends in Technology, Engineering and Applied Sciences on 12th and 13th April 2019 at Dr.T.Thimmaiah Institute of Technology.

In this regard I invite all the Delegates, Scientists, Engineers and Technocrats of all disciplines for this conference.

I hope that the outcomes of the conference would bring an effective solution to most of the problems the technological society faces in day today life. The inter disciplinary scientific knowledge required for future generation would emerge as an outcome of this conference. I wish all the participants to present their ideas in an ideological manner and makes this event a technical debate.

I congratulate the faculty members and students of all Engineering departments for their efforts in organizing this Conference.

I wish you all the success.

Dr.H.G.Shenoy
Vice-Principal

Dr. T. Thimmaiah Institute of Technology
Oorgaum, K.G.F.-563120

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## MESSAGE

I am immensely happy that our college is organizing an international conference on "International Conference on Recent Trends in Technology, Engineering and Applied Sciences" to be held on 12th and 13th April 2019, which is going to present a collection of various technical and research papers in the proceedings.

The conference will provide a platform for the academicians, students, research scholars and industrial experts in various fields to interact and to enlighten themselves about the latest developments.

I congratulate the organizers and the participants and wish the conference a grand success.

Prof. Ruckmani Divakaran
Dean-Administration & HOD ECE

9/12/21

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## MESSAGE

The Mechanical Engineering fraternity extent a warm greetings and wishes for the First International Conference on Recent Trends in Technology, Engineering and Applied Sciences to be held on 12th and 13th April 2019 at Dr.T.Thimmaiah Institute of Technology.

It is indeed a pleasure to invite mechanical Technocrats and student communities for this International Conference. This Conference mainly focus on the application and implementation of Mechanical knowledge for inter disciplinary scientific and technological trends. The discussion on the application of 3D printer technology, robotics and Industrial internet of things throw light to make the mechanical engineering a gate way to Global technological growth

I congratulate all the teaching staff and students of Mechanical Engineering Dept. for their whole-hearted efforts for organizing this Conference.

I wish all the participating delegates for their success

Dr.P.D.Sudersanan
Head of the Department
Mechanical Engineering Dept

Dr. T. Thimmaiah Institute of Technology
Oorgaum, K. G. F- 563120

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Ph: 08153 265413 | principal@drtit.edu.in | www.drtit.edu.in

## MESSAGE

The Electrical and Electronics Engineering fraternity extent a warm greetings and wishes for the First International Conference on Recent Trends in Technology, Engineering and Applied Sciences to be held on 12th and 13th April 2019 at Dr.T.Thimmaiah Institute of Technology.

It is indeed a great pleasure for me to invite Power Engineers, scientists and student communities at this transition time of technological change for this International Conference. This Conference mainly focuses on the application of Renewable energy for sustainable development. The discussion on the application of solar technology, wind energy, and Transmission grids would add an awesome blossom to the success of mankind.

I congratulate all the teaching staff and students of Electrical and Electronics Engineering Dept, for their efforts in organizing this Conference.

I wish all the participating delegates all the success.

Dr. N.Lakshmipathy
Head of the Department
Electrical and Electronics Engineering Dept.

Dr. T. Thimmaiah Institute of Technology
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## MESSAGE

The Computer Engineering fraternity extent a warm greetings and wishes for the First International Conference on Recent Trends in Technology, Engineering and Applied Sciences to be held on 12th and 13th April 2019 at Dr.T.Thimmaiah Institute of Technology.

It is indeed a pleasure to invite IOT Engineers and Big Data Engineers and young technocrat student communities for this International Conference. This Conference mainly focuses on how the Big data and Internet of things makes an effect on future technical society. The discussion on the application of remote sensing technology, GEO information science and Star Wars would give a clear path for technical study for the next twenty years.

I congratulate all the teaching staff and students of Computer Science Engineering Dept., for their efforts in organizing this Conference.

I wish all the participating delegates all the success.

Dr. S. Shreedhar Kumar
Head of the Department
Computer Science Engineering Dept.

9/12/21

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## MESSAGE

The Mining Engineering fraternity extent a warm greetings and wishes for the First International Conference on Recent Trends in Technology, Engineering and Applied Sciences to be held on 12th and 13th April 2019 at Dr.T.Thimmaiah Institute of Technology.

It is indeed a pleasure to invite geoscientists and mining engineers and student communities for this International Conference. This Conference is to focus on the application of inter disciplinary scientific knowledge and know-how in emerging trends in mining technology for sustainable development. The discussion on the application of remote sensing technology, geochemical and geotechnical investigation throw light to make the mining activity eco-friendly as well a key for success for mining industries.

I congratulate all the teaching staff and students of Mining Engineering Dept, for their efforts in organizing this Conference.

I wish all the participating delegates all the success.

Dr. K. Ramesh
Head of the Department
Mining Engineering Dept.

Dr. T. Thimmaiah Institute of Technology
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# Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

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## MESSAGE

The Civil Engineering fraternity extent a warm greetings and wishes for the First International Conference on Recent Trends in Technology, Engineering and Applied Sciences to be held on 12th and 13th April 2019 at Dr.T.Thimmaiah Institute of Technology.

It is indeed a pleasure for me to invite young budding engineers for this International Conference. This Conference is to focus on the application of inter disciplinary scientific knowledge in civil discipline and adventure of emerging trends in Architecture design. The discussion on the application of Remote sensing technology, Soil mechanics, Transportation Engineering and Structural Engineering enlighten the socio-economic functions of modern society.

I congratulate all the teaching staff and students of Civil Engineering Dept. for their efforts in organizing this Conference.

I wish the success for all participants.

M Maneela

Prof. M. Maneela
Head of the Department
Civil Engineering Dept.

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## MESSAGE

The Science fraternity extent a warm greetings and wishes for the First International Conference on Recent Trends in Technology, Engineering and Applied Sciences to be held on 12th and 13th April 2019 at Dr.T.Thimmaiah Institute of Technology.

It is indeed a pleasure to invite Technocrats of all disciplines and student communities for this International Conference. This Conference is to focus on the application of how the basic science basement would be utilized for inter disciplinary scientific knowledge and sustainable technological development. The discussion on the application of modern maths, chemical and physics concepts for at most technological fields of Nano, Bigdata and GEO spacing would enlighten a spark for future.

I congratulate all the teaching staff and students of Science Dept, for their efforts in organizing this Conference.

I wish all the participating delegates all the success.

Dr.S.Kalyana Kumar
Head of the Department
Science Dept.

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# Track1- Computer Science & Engineering

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# Prediction of the 2019 Lok Sabha Election Based On Twitter Data Analysis

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**Abstract**— This paper addresses the matter of sentiment analysis in twitter; that is classifying tweets as per the sentiment expressed in term which might be positive, negative or neutral. Sentiment analysis could be a broad analysis space in tutorial yet as business field. The term sentiment refers to feelings or opinion of the person towards some explicit domain. Therefore, it's additionally referred to as opinion mining. It ends up in the subjective impressions towards the domain, not facts. It may be expressed in terms of polarity, reviews or antecedently by thumbs up and right down to denote positive and negative sentiments severally. Sentiments may be analyzed exploitation natural language processing, statistics or machine learning techniques. This paper proposes a method to predict election results based on twitter data analysis. The method extracts information from twitter platform and performs sentimental analysis to predict the popularity of the candidates. The proposed method is used to predict the result of2019 Lok Sabha Election based on the results derived from theanalysis.

# Efficient Technique for Simulating Multiple Layers of Soft Tissues using CUDA Based GPU

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**Abstract—** With the introduction of VR (Virtual Reality) based simulators; surgeons keep learning these procedures that are different from traditional surgery procedures. In fact VR environments are promising medium to carry out training and practicing surgery techniques efficiently. This paper investigates the key component of simulation of multiple layers of 3D soft tissues of human skin. CUDA based GPU computing is adopted to speed up the simulation performance. The parallel computation is achieved using necessary data structures and algorithms. The performance evaluation of the model is done using vtkPython and CUDA programming language implementations. The comparative analysis of the models performance shows that there is a significant increase in speed up at a fraction of the cost with GPU equivalent to ten times the traditional CPU cores.

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# Reduction of traffic At Toll plaza by automatic toll Collection using RFID and GSM technology

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**Abstract**— Internet of things is an integral part in today's development of smart city, now without internet is became like nothing is possible in the world especially for corporate systems where they use internet for communication purpose. Internet communicates through radio waves, line of sight not required. Internet of things (IoT) is expanding it's outreach to every aspect of our daily life and our needs. The IoT energy consumption can also be reduced by utilizing network coding in Internet of things in day- to -day life. In Automatic Toll collection system uses RFID technology where they help to reduce the Toll gate traffic and avoid other illegal passage of vehicles through a Toll gate. This paper shows, for the first time, that Toll booth can be completely managed using the 'Internet of Things' concept based on the RFID technology.

# Decision Tree: A Machine Learning approach for Intrusion Detection

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**Abstract:** The Intrusion is a major threat to unauthorized data or legal network using the legitimate user identity or any of the back doors and vulnerabilities in the network. IDS mechanisms are developed to detect the intrusions at various levels. The objective of the research work is to improve the Intrusion Detection System performance by applying machine learning techniques based on decision trees for detection and classification of attacks. The methodology adapted will process the datasets in three stages. The experimentation is conducted on KDDCUP99 data sets based on number of features. The Bayesian three modes are analyzed for different sized data sets based upon total number of attacks. The time consumed by the classifier to build the model is analyzed and the accuracy is done.

# Enhancing TCP Performance in Wireless Networks Using ACK Division Technique

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**Abstract—** Transmission Control Protocol (TCP) is one of the most widely used transport protocol in the Internet. Standard TCP and CUBIC TCP behavior is estimated in both wiredand wireless networks. CUBIC TCP, a variant of the traditional TCP, is the default congestion control algorithm deployed in Linux kernels above 2.6 version. CUBIC is mainly designed for high speed, long distance wired networks [1]. All the TCP Variants including the high-speed TCP protocols shows poor performance when operating in error prone wireless networks. CUBIC TCP is the default TCP in Android smartphones. Hence CUBIC TCP leads to poor performance when smartphones are connected to low speed networks. In wired networks, CUBIC TCP shows much better performance compared to TCP Reno with SACK. In wireless networks, behavior of CUBIC TCP is similar to Standard TCP. Hence, Performance of TCP in Error prone networks must be improved. Three methodologies to improve the performance are as follows: a) Sensing the network traffic b) Configuring network elements and c) Enhancing End-to-End performance. Out of these three methodologies, preserving End-to-End semantics is easier to implement. ACK Division is a technique used to enhance the performance of TCP in wireless networks. With this technique, TCP Receiver can force the sender to transmit more number of packets per RTT period compared to original TCP. To implement this, simple algorithmic changes at sender and receiver end are required. This project aims to provide an optimal solution to enhance performance of TCP in Error Prone MANETs by focusing End-to-End semantics.

# Switch off with password

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**Abstract-** *Switch off* with password, this technique we can use only in SMART phones, we can't use this in a BASIC hand set because this technique is completely dependent on INTERNET and Gmail. If you are or any other person is trying to Switch off your smart phone, INTERNET will provide you a message with the help of IP and MAC a Security pin to your Gmail by entering that security pin only you can Switch off your smart phone if not you can't Switch off your smart phone.

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## Corpora based Classification to perform Sentiment Analysis of Mobile Product Reviews in Kannada Language

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**Abstract**— Review Analysis is a sub-domain of opinion mining. Here the analysis is focused on the mining of emotions and opinions of the people towards a specific topic. The emotions and opinions may be collected in the form of organized, semi-organized or amorphous data. Analysis of a particular entity's feelings in terms of positive, negative or neutral polarization is known as 'Sentiment Analysis'. In this modern era, the users' opinions play an uncanny role in understanding how well a product has satisfied the customer requirements, so that the producer can change the product as suited to the customers and these reviews also help thenew consumers to decide on whether to purchase the product or not. However, extracting inclusive opinion manually from huge amorphous data would be a tedious task. An automated system called 'Sentiment Analysis or Opinion Mining' can solve this problem, which can analyze and extract the observation of the user throughout the reviews. In this classifier of review analysis, we classify the review via corpus, which is a huge collection of predefined data. The API that we have used is Python-Beautiful Soup via utf-8 text recognition methodto parse Kannada characters. The reviews are given through scraped data via gadgetloka.com. It is converted to text sentence and each words of the sentence are broken down. Data Mining is done to find the sentiment of each word by comparing it with two stored files named as good.txt and bad.txt. Further, the analyzed result is given through text output as Positive, Negative or Neutral sentiments based on their weights.

## Obstructive Sleep Apnea Hypopnea Syndrome diagnosis from ECG Signals using Deep Learning

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**Abstract-**The most powerful feature learning and accurate results properties of deep learning approach urge to explore its advantages in biomedical applications like Obstructive Sleep Apnea Hypopnea Syndrome (OSAHS ) diagnosis. OSAHS is a sleep disorder occurred due to the blockage in airflow during sleep which may cause hypertension, drowsiness in the daytime, Diabetes, Depression, Stroke and heart attack.

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This disorder is usually diagnosed in sleep laboratories, by polysomnography, which is an expensive and time-consuming procedure involving much effort for the patient. As an alternative to polysomnography for OSAHS detection, a single sensor data ECG signals can be used to diagnose the sleep apnea episodes with a deep learning approach such as Deep Convolution Neural Network (D-CNN). In this work, Deep Convolution Neural Network is used to classify the normal and sleep apnea episodes from the electrocardiogram signals. The model includes a single input layer, several convolution layers and one fully connected layer. Each CNN layer is followed by ReLU activation function for thresholding operation and Max pooling for dimensionality reduction. Finally, a fully connected layer classifies the normal and apnea episodes.

## Reduction of Traffic At Toll Plaza By Automatic Toll Collection RFID And GSM Technology

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**Abstract**— Internet of things is an integral part in today's development of smart city, now without internet is became like nothing is possible in the world especially for corporate systems where they use internet for communication purpose. Internet communicates through radio waves, line of sight not required. Internet of things (IoT) is expanding its outreach to every aspect of our daily life and our needs. The IoT energy consumption can also be reducedby utilizing network coding in Internet of things in day- to -day life. In Automatic Toll collection system uses RFID technology where they help to reduce the Toll gate traffic and avoid other illegal passage of vehicles through a Toll gate. This paper shows, for the first time, that Toll booth can be completely managed using the 'Internet of Things' concept based on the RFID technology.

## Machine Learning Algorithm: Particle Swarm Intelligence Load Balancing Algorithm in Cloud

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**Abstract:** Cloud computing is mostly defined as a type of computing that focuses on sharingcomputing resources rather of having the local host or personal devices to manageapplications .The major issues related to the cloud are resource discovery, fault tolerance, load balancing and security. Load balancing is the primary consideration in the cloud computing environment. Load balancing is one of the leading issues of cloud computing. Therefore, there is a demand for a regular load balancing algorithm for efficient utilization of resources. The aim is to avoid a situation where there is a large discrepancy in resource utilization of physical Machines. A Swarm intelligence algorithm is used to choose the scheduling technique by multicriteria decision to optimize the performance. The main focus is to minimize the response time of a given task.

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# Efficient Block-wise Image Comparison and Storage Reduction Using DICE Protocol

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**Abstract**—In this paper we introduce a secure deduplication scheme for near identical (NI) images using the Dual Integrity Convergent Encryption (DICE) protocol. An image is divided into blocks and the DICE protocol is applied on each block separately instead of applying on the entire image. As a result, the blocks that are similar between two or more NI images are deposited only once at the cloud. This paper provides a technique to accomplish secure image deduplication at the block level based on the DICE protocol which exhibits that the greater the resemblance of the images, the smaller the number of blocks deposited at the cloud. Applying secured data deduplication to such data files could remarkably minimize the cost and space required for their storage.
Index Terms—Security; Image Deduplication; Cloud Storage**.**

# Online Social Voting Recommendation Using collaborative filtering

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**Abstract**- Online social voting is playing important role in todays social network .there is a challenge for recommendation kind of system. The set of matrix factorization plays important role,nearest-neighbor-based and recommendersystems (RSs) we are using that will explore user social network and group affiliation information which will be used for social voting recommendation. through the voting experiments we see that social network along with group affiliation information that is important to improve the accuracy of popularity with voting recommendation, and we see that social network information have influence over the group affiliation information which was in the NN-based approaches. We observe that social and group information is much more valuable to cold users than to heavy users. In our experiments, simple meta path based NN models outperform computation-intensive MF models which is in the social voting hot-voting recommendation, while users' interests for non hot voting is seen General terms- Collaborative filtering, online social voting, hot and non hot voting, recommender systems , social voting.

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# FACIAL EXPRESSION RECOGNITION THROUGH MACHINE LEARNING

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Abstract: Machine learning is an application of artificial intelligence that provides systems the ability to automatically learn and improve from experience without being clearly programmed, Machine learning focuses on the development of computer programs that can access data and use it for themselves. Machine learning enables analysis of large amount of data. As we are stepping forward from one generation to another, innumerous technologies are abiding us according to our necessities. Thus, we are thoroughly depending on these technologies as a part of human-computer interaction. And one of them is facial expression recognition. Face plays an important role in social communication; equally facial expressions are vital. Facial expressions not only expose the sensitivity or feelings of any person but can also be used to judge his/her mental views. Facial expression recognition is a method to recognize expressions on one's face. A wide range of techniques have been proposed to detect expressions like happy, sad, fear, disgust, angry, neutral, surprise but others are difficult to be implemented Research into automatic recognition of the facial expressions addresses the issues hold the representation and arrangement of static or dynamic qualities of these distortions or face pigmentation. The results are taken by utilizing the CVIP tools. By taking train data set of six facial expressions of three persons and for train data set purpose it has total border mask sample 90 and 30% border mask sample for test data set purpose andby using RST- Invariant features and texture features for feature analysis and then classified them by using SIFT algorithm. The maximum result will get 80% to 90%.

# Hybrid Cryptosystem With A New Lightweight Cryptographic Algorithm

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**Abstract:** In this present world there is lot of importance in transferring and securing the digital data. But there is problem in securing the data, to avoid that we are going to use a combined algorithm. In this paper, we discuss about a hybrid algorithm using Hummingbird algorithm and SHA-1(Secure Hash Algorithm). This hybrid algorithm is implemented in vivado software, using verilog hardware description language. Hummingbird algorithm is a latest ultra-lightweight cryptographic algorithm targeted for low cost smart devices. Hash function plays a major role in today's cryptographic applications. It compresses an Infinite length of message into a finite length of message.SHA-1 is widely used in public key cryptographic algorithms.SHA-1 architecture achieves higher working frequency and also higher throughput. In this paper we are aiming to design an algorithm of low power and high speed, lightweight algorithm for securing data

# A New Approach of Multilevel Clustering for Replication Detection of Images

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**Abstract**— Replicate and near-replicate images are variants derived from original images, that are common among the large number of images on the cloud storage. The existence of such near-replicate images in web search indicate the presence of redundancy and lowers the system performance. The detection of replication is challenging due to the multitude of possible variations of images. In this paper, Multilevel Clustering for Replication Detection of Images (MC-RDI) is presented. The proposed scheme is used to detect the replicated images present on the cloud storage and thereby reducing the space complexity and increasing the efficiency of the system. The proposed MC-RDI consists of four stages viz Feature extraction, K-Means clustering, Agglomerative clustering and Cluster validation. This MC-RDI system pre-processes the gray scale images to extract the features based on which the clustering takes place. The resulting clusters identifies and retrieves the replicated images.

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# Automatic Driver Drowsiness and Alcohol Detection system using IoT

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**Abstract:** Drowsy is the reason for most of the road accidents. Manually tracing the drowsy driver is not an easy task. So we need a system that must come with every car and if it detects the sleepy driver, detects the alcohol consumption of the driver and also detects whether the person uses mobile while driving. Driver fatigue, alcohol consumption and using mobile while driving often becomes a direct cause of many traffic accidents. Therefore, there is a need to develop the systems that will detect and notify a driver of her/him bad condition, which could significantly reduce the number of car accidents caused related to these aspects However, the development of such systems encounters many difficulties related to fast and proper recognition of a driver's symptoms.

# A New Method Of Colored Image Classification Using Unsupervised Clustering Method

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**Abstract**— In this paper, we introduce a new method of colored image classification using unsupervised clustering method. The proposed approach aims to train the image and partition into highly relative cluster. Two method are used such as 1) Image processing and 2) Classification stage. In image preprocessing stage the images are trained to limited colored images through the feature extraction and feature selection. In the feature extraction stage, mean, standard deviation and variance is applied to the each individual block and the three features are extracted from the each block in the digital image. In the feature selection stage, the size of the image feature is limited. In the classification stage, images are trained and it is portioned into highly relative clusters through the k mean technique. The experimental result shows the proposed approach is used to classification of colored image using unsupervised clustering method.

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## Secured Data Transmission Using Wavelet Based Steganography And Cryptography By Using Aes Algorithm

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**Abstract**-Steganography and cryptography ways square measure used alongside wavelets to extend the safety of knowledge whereas sending through networks. In discrete wavelet transform, "analysis filter bank "can be used for analysing image signal by passing through it. This filter bank consists of a low pass and a high pass filter at each decomposition stage. During this paper the embedded info is applied as text. Before embedding the text in image, text is encrypted exploitation advanced coding Standard (AES) rule. The text will be a sentence or a key with alphabetic words having the length of eight characters. Using least significant Bit (LSB) technique, the encrypted text is embedded into the "LL sub band wavelet decomposed image". The inverse wavelet transform is applied and the resultant image is transmitted to the receiver. Currently at the receivers finish, the image transformed using wavelet and encrypted text is extracted by using LSB method. The paper additionally shows however the AES rule is used in cryptography of result.

## IoT Based Smart Parking With Flood Alert System

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**Abstract**-Our goal is to implement Vehicle parking monitoring and management. Vehicle parking observation and management has become an enormous challenge for academic establishments with increasing enrolment's, high share of automobile possession and decreasing parking offer that in result triggering blockage of automobile, congestion, wastage of your time and cash. In university campuses notably in Kingdom of Asian nation, vehicle parking monitoring and management problem is getting worse and more frustrating due to the fact that majority of students, facultyand worker's members own cars and drive through them to the university campuses. HereReal-time system able to monitor sudden floods in parking lots, addressing the concern of water damage to vehicles; creating a personal opt-in alert that could reach an end user through their mobile phone. The existing cameras located at the parking lots are only for video surveillance and cannot help in such situations as there is a lack of proper vehicle parking monitoring and management system. To cope with abovementioned problems and to ensure a better parking experience by accommodating increasing number of vehicles in a proper convenient manner, we propose a smart vehicle parking monitoring and management system.

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# Attendance and Time Management System Using Cloud For CorporateCompanies

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**Abstract---**Efficient worker attendance control leads any companies to boom usual company overall performance and accomplish company's tasks. Correct employee attendance records are importantly used to govern working field and increase worker's productivity. guide attendance-time checking makes an increasing number of the fee of time-consuming and paper work of the agencies. Human movements i.e. mistake at work, and fraudulent time keeping are additional hidden expenses which have an effect on the productiveness of the business enterprise. Variation of the attendance regulations set up in distinctive agencies make extra complicated in assessment of employee running hours, for this reason, automated time- attendance management gadget is used. For enhancing the overall performance, and profitability, the attendance management machine captures time-attendance statistics and serves the control of the employee working hour facts. But, a few current time attendance structures have barriers in phrases of identity speed, price of device devices, actual-time attendance tracking, and flexibility of database storage length. In this paper, we introduced a cloud-primarily based worker attendance control device using NFC. The proposed utility provides numerous essential operations such as captured attendance information using NFC, automated time calculation, leave and overtime checking, working hours evaluation, real-time up to date information access, and generating reports. The proposed system also offers on-line portal which lets in multiple company consumer bills, requires no unique software to install, and provides greater flexibility.

# Cancer Prediction System Using Data Mining Techniques

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Abstract: Cancer is one of the leading causes of death worldwide. Early detection and prevention of cancer plays a very important role in reducing deaths caused by cancer. Identification of genetic and environmental factors is very important in developing novel methods to detect and prevent cancer. Therefore, a novel multi layered method combining clustering and decision tree techniques to build a cancer risk prediction system is proposed here which predicts lung, breast, oral,stomach and blood cancers and is also user friendly, time and cost saving. This project uses data mining technology such as classification, clustering and prediction to identify potential cancer patients. The gathered data is pre-processed, fed into the database and classified to yield significant patterns using decision tree algorithm. Then the data is clustered using K- means clustering algorithm to separate cancer and non-cancer patient data. Further the cancer cluster is subdivided into six clusters. Finally, a prediction system is developed to analyze risk levels which help in prognosis.

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