

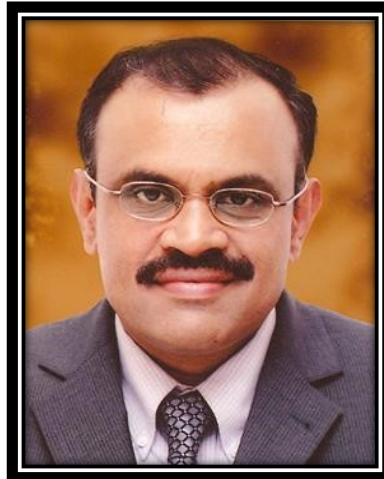
*DEPARTMENT
OF
INFORMATION TECHNOLOGY*



IT-Riotz

MAGAZINE 2017-2018





MESSAGE

"Information Technology Management learning is best practiced within the precincts of real-time industry"

I welcome you to the experience "Campus inside" learning at KGISL Institute of Technology.

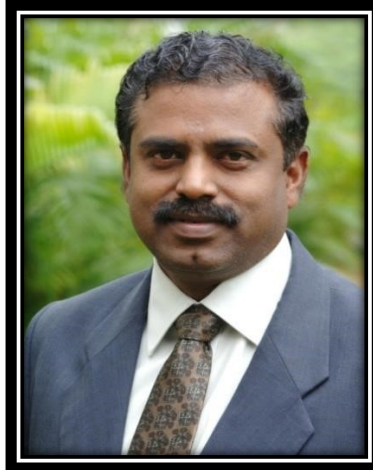
Be it the sciences, management education or the arts, the quality of learning environments have always been determined by its proximity to industry. The greater the institute-industry interaction and the better was the quality of learning that the student accumulated.

At KGISL Institute of Technology learning is an integrated system with most of the education-taking place at the center stage of technology workplaces.

Real-time projects brought in for learning from industry bring relevance to our focus of creating 'industry-ready' people for the IT marketplace.

Add to this KGISL Institute of Technology's 'sponsored institute' status with strong industry -institute dynamics happening from its parent organization KG Information Systems Private limited - students on this campus have the 'inside line' to the world of information technology learning.

Mr.Ashok Bakthavathsalam
Managing Trustee
KGiSL Educational Institutions



MESSAGE

It is a matter of elation to find that the KGISL Institute of Technology proposes to bring out the magazine annually with substantial articles.

It will be a wonderful opportunity for the Department of Information Technology to play a role in bringing up the students talents. The Department is admiring for its extension activities in neighboring institutions.

The students, I am sure, will share their technical knowledge and come out with creative ideas. The proceeding of the magazine creation will help all to understand the various elements involved in information technology.

My best wishes are extended to the department in this intellectual creation.

Dr. Ravichandran Rajagopal
Director
KGISL Education Institutions

Message from Head of the Department



As the Head of the Department of Information Technology I am extremely happy to bring out this magazine released on the technical and nontechnical.

Technology, Teaching, Training are the pillars of our department. We are entering in a world which is fully IT driven, globally integrated and dynamic. The field of IT is emerging day by day and our responsibility, in imparting the latest technical knowledge to the students and cultivating, nurturing the same in the right way will make our students competent in the competitive world, is also growing tremendously.

This magazine offers an exciting platform for the students to exhibit the knowledge they possess and a good chance to develop the same. This kind of Technical magazine aims at providing an opportunity to students by bringing academics & aspiring students to a common platform to expose and share their views & experiences.

I congratulate and thank all the students, staff and non-teaching staff of the department who have made tiring efforts to bring out this magazine and wish them all success!

70% of all the Software exports from
India

ABOUT THE CAMPUS



Coimbatore the Mecca of learning in South India is host to the campus of KGiSL institute of technology. A city, which boast 3 universities, over 60 Arts and science college, and 23 Engineering colleges , attracts the finest talents tandem to the infrastructure it can provide. KGiSL institute of technology is collocated on the 35 acre high-tech campus of KGiSL. Nested in the foothills of the Western Ghats, the calm, peace, and green environs of the campus lends to a conducive learning mood. The infrastructure at KGiSL operates on a round-the-clock mode, housing more than 1000 computers that are connected to servers via layers-3 manageable switches. Two H4 satellite earth stations located on the campus provide for non-stop international private leased Circuits (IPLCs) and a redundant SMBps internet connectivity with Quality of services (QOS) comparable to global standards. It is also home to the software Technology Park of India (STPI), the premier organization which contributes to

The learning resource Center at KGiSL institute of technology is a treasure trove knowledge from the wealth of knowledge it is storehouse too. The center also boasts facility for online access of information through computers available with high speed, Internet browsing facility, which



CAMPUS INSIDE

Brick & mortar, click, chalk & talk, audio visual aids. Cyber classrooms, you've heard it all form software technology institutes. And then you have heard of industry-institutes interaction., campus placements and all. But, with one crucial imitation: out of bounds of industry. At KGiSL institute of technology we speak the language of Borderless Learning-a learning environment happening right in the middle of industry. 'campus inside' – we call it, signifying the unique strength of KGiSL institute of technology in being able to afford a learning environment right in the middle of its sponsoring body-KGiSL- as ISO 9001:2000 SEICMM Level4 company.

LEARNING

RESOURCECENTER

books on Information Technology, management, science and self-development. The library is open from 8 am to 8pm. And encourages the students to harvest maximum students can use, with a total of over 1000 volumes at store, the Learning Resource Center is extended a healthy.

Budget for acquiring of books and periodicals that constantly keep it update with newer learning technology.

share knowledge and learn from his mentors the nuances of workplace competencies.

PLACEMENT

KGiSL recognizes the aspirations of the individual to launch himself as a 'global employee' and acknowledges that education is the preparedness to such aspiration. Hence all learning systems and opportunities during the program are focused towards ingraining the values of learning that would eventually identify individually competencies in a global career path. The corporate relation cell at KGiSL institute of technology actively solicits industry for job opportunities for its students and target to place 100% if its students from the campus placement opportunities it creates for them.



24HOURS CAFETARIA

Just like home: coffee (and information) when you want it. The 24 hour cafeteria is again a forum for professional dialogue where the student gets to interact with professionals at the KGiSL campus.

STAYING ON THE CAMPUS

Fundamental to enlarging human choices is building human capabilities, the range of things that people can do or be. The diversity of people on the campuses at KGiSL institute of technology provide for excellent cross experiences in culture and social values of the individual. This leads to a conditioning of the individual towards a more conditioned mutually inclusive social behavior attitude.

The campus hostels are again an opportunity for cross integration of student learning with corporate life where the student is able to

SPORTS AND EVENTS

The spirit of fair-competitiveness is best achieved on the courts of a game. KGiSL institute of technology recognizes the importance of sport as daily ritual for all-round development of the individual sporting infrastructure that provide for games like soccer, cricket, basketball, badminton, volleyball apart from a full fledged gymnasium hall mark .

WEB BASED SOLUTION FOR EFFECTIVE REAL TIME COMMUNICATION

Real-time interactive communications have become critical for business, e-commerce, e-government and education. Teleconferencing systems have been usually deployed using pro-prietary and expensive systems. Overlay networks are often used to support multi-point teleconferencing and provide ser-vices unavailable in the underlying physical networks. With the advent of WebRTC, real-time communication applications can be implemented directly in the browser without installing custom applications or additional plugins. it is possible to use the HTTP / Web Socket and RTC API via a Web server, in order to perform real-time video communication in all Web browsers. In all environments that are connected to the network, it is available at all terminals that you can use a Web browser and real-time video communication. Web Real-Time Communication (Web RTC) is an upcoming standard that aims to enable real-time communication among Web browsers in a peer-to-peer fashion. In this paper we are aiming to present the detailed review over WebRTC framework. We are presenting the standard and technology used of WebRTC, different methods used in WebRTC, bandwidth allocation scheme discussed which is used for video collaboration under real time environment. This paper proposes a video encryption algorithm using RSA and Pseudo Noise (PN) sequence, aimed at applications requiring sensitive video information transfers. The system is primarily designed to work with files encoded using the Audio Video Interleaved (AVI) codec, although it can be easily ported for use with Moving Picture Experts Group (MPEG) encoded files.

ANNIE LINCY F, ANNIE VINCY F
IV Yr

TIME DELAY NEURAL NETWORK FOR CONTINUOUS EMOTIONAL DIMENSION PREDICTION FROM FACIAL EXPRESSION SEQUENCES

Automatic continuous affective state prediction from naturalistic facial expression is a very challenging research topic but very important in human–computer interaction. One of the main challenges is modeling the dynamics that characterize naturalistic expressions. In this paper, a novel two-stage automatic system is proposed to continuously predict affective dimension values from facial expression videos. In the first stage, traditional regression methods are used to classify each individual video frame, while in the second stage, a time-delay neural network (TDNN) is proposed to model the temporal relationships between consecutive predictions. The two-stage approach separates the emotional state dynamics modeling from an individual emotional state prediction step based on input features. In doing so, the temporal information used by the TDNN is not biased by the high variability between features of consecutive frames and allows the network to more easily exploit the slow changing dynamics between emotional states. The system was fully tested and evaluated on three different facial expression video datasets. Our experimental results demonstrate that the use of a two-stage approach combined with the TDNN to take into account previously classified frames significantly improves the overall performance of continuous emotional state estimation in naturalistic facial expressions. The proposed approach has won the affect recognition sub-challenge of the Third International Audio/Visual Emotion Recognition Challenge.

PADMASHREE .S,DIVYA. S

II Yr

DESIGNING HIGH PERFORMANCE WEB-BASED COMPUTING SERVICES TO PROMOTE TELEMEDICINE DATABASE MANAGEMENT SYSTEM

Many web computing systems are running real time database services where their information change continuously and expand incrementally. In this context, web data services have a major role and draw significant improvements in monitoring and controlling the information truthfulness and data propagation. Currently, web telemedicine database services are of central importance to distributed systems. However, the increasing complexity and the rapid growth of the real world healthcare challenging applications make it hard to induce the database administrative staff. To build an integrated web data services that satisfies fast response time for large scale Tele-health database management systems. Our focus will be on database management with application scenarios in dynamic telemedicine systems to increase care admissions and decrease care difficulties such as distance, travel, and time limitations. Three-fold approach based on data fragmentation, database websites clustering and intelligent data distribution. This approach reduces the amount of data migrated between websites during applications' execution; achieves cost-effective communications during applications' processing and improves applications' response time and throughput. The proposed approach is validated internally by measuring the impact of using our computing services' techniques on various performance features like communications cost, response time, and throughput. The external validation is achieved by comparing the performance of our approach to that of other techniques in the literature.

NILAVANN.S, MANOJ KUMAR.A

III Yr

A FRAMEWORK FOR ENABLING USER PREFERENCE PROFILING THROUGH WI-FI LOGS

Nowadays, mobile devices have become a ubiquitous medium supporting various forms of functionality and are widely accepted for commons. In this study, we investigate using Wi-Fi logs from a mobile device to discover user preferences. The core ideas are two folds. First, every Wi-Fi access point is with a network name, normally a human-readable string, called SSID (Service Set Identifier). Since SSIDs are often with semantics, from which we can infer the place where the user stayed. Second, a Wi-Fi log is produced when the user is near a Wi-Fi access point. A high frequency of a consecutively observed SSID implies a long stay duration at a place. To the best of our knowledge, our work is the first attempting to understand users from the collected Wi-Fi logs from mobile devices. However, Wi-Fi logs are essentially of various information types and with noises.

SWETHA. S

I Yr

TWO-LEVEL QR CODE FOR PRIVATE MESSAGE SHARING

The quick response (QR) code was designed for storage information and high-speed reading applications. In this paper, we present a new rich QR code that has two storage levels and can be used for document authentication. This new rich QR code, named two-level QR code, has public and private storage levels. The public level is the same as the standard QR code storage level; therefore, it is readable by any classical QR code application. The private level is constructed by replacing the black modules by specific textured patterns. It consists of information encoded using with an error correction capacity. This allows us not only to increase the storage capacity of the QR code. The pattern recognition method that we use to read the second-level information can be used in a private message sharing. The storage capacity can be significantly improved by increasing the code alphabet q or by increasing the textured pattern size. The experimental results show a perfect restoration of private information.

RUBY MYTHILI .M, SELSIA EBANEZAR .S

I Yr

MINING QUERIES ASPECTS REPEATEDLY FROM THEIR SEARCH RESULTS

To address the issue of discovering question aspects which are various gatherings of words or expressions that clarifies and compresses the substance secured by an inquiry. We accept that the imperative parts of an inquiry are typically introduced and rehashed in the question's top recovered records in the style of records, and question aspects can be mined out by collecting these huge records. We propose a deliberate arrangement, which we allude to as QDMiner, to naturally mine question aspects by extricating and gathering incessant records from free content, HTML labels, and rehash areas inside top indexed lists. Trial results demonstrate that countless do exist and helpful inquiry features can be mined by QDMiner. We promote investigate the issue of rundown duplication, and discover better question aspects can be mined by displaying fine-grained similitude's amongst records and punishing the copied records.

SATHISH KUMAR.S, VIJAY KUMAR.M

III Yr

CLOUD COMPUTING

Cloud computing is a model for enabling ubiquitous network access to a shared pool of configurable computing resources. It provides users and enterprises with various capabilities to store and process their data in third-party data centres. At the foundation of cloud computing is the broader concept of converged infrastructure and shared services. It provides variety of computing resource from server such as email, security, backup, all delivered from the internet.

KAVIPRIYA K

CLOUD AND INTERNET TECHNOLOGIES

This paper describes the concept of cloud computing and the key characteristics possessed by it. It also explains the stack of three services provided and the technologies behind it which includes virtualization as prominent. This also outlines the deployment models and security features provided by it.

SABITHA.C, SAMYUKTHA.H

IV Yr

WEB STRUCTURE MINING

Due to the increasing amount of data available online, the World Wide Web has becoming one of the most valuable resources for information retrievals and knowledge discoveries. Web mining technologies are the right solutions for knowledge discovery on the Web. The knowledge extracted from the Web can be used to raise the performances for Web information retrievals, question answering, and Web based data warehousing. In this paper, we provide an introduction of Web mining as well as a review of the Web mining categories. Then we focus on one of these categories: the Web structure mining. Within this category, we introduce link mining and review two popular methods applied in Web structure mining: HITS and PageRank.

JHAZIL SAMRAJ.M, PADMASHREE. S

II Yr

SURVEY ON CLOUD COMPUTATION TECHNOLOGY

Cloud computing is the next generation networks which is soon going to revolutionize the computing world. It has much flexibility like on demand resources and services availability. Security is still critical challenge in the cloud computing paradigm. These challenges include user's secret data loss, data leakage and disclosing of the personal data privacy. In this paper a comprehensive survey of existing literature for cloud computing security challenges and solutions is presented. At the end of this paper the authors propose a model for cloud computing security.

SUJITHA.S, SUGANYA. B

III Yr

NANO TECHNOLOGY

Nanotechnology is manipulation of matter on an atomic, molecular, and supramolecular scale. The earliest, widespread description of nanotechnology referred to the particular technological goal of precisely manipulating atoms and molecules for fabrication of macro scale products, also now referred to as molecular nanotechnology. A more generalized description of nanotechnology was subsequently established by the National Nanotechnology Initiative, which defines nanotechnology as the manipulation of matter with at least one dimension sized from 1 to 100 nanometers. This definition reflects the fact that quantum mechanical effects are important at this quantum-realm scale, and so the definition shifted from a particular technological goal to a research category inclusive of all types of research and technologies that deal with the special properties of matter which occur below the given size threshold.

PAVITHRA ROSELIN.M
IV Yr

COMPUTATIONAL INTELLIGENCE

Computational intelligence is the study of the design of intelligent agents. An **agent** is something that acts in an environment—it does something. Agents include worms, dogs, thermostats, airplanes, humans, organizations, and society. An **intelligent agent** is a system that acts intelligently: What it does is appropriate for its circumstances and its goal, it is flexible to changing environments and changing goals, it learns from experience, and it makes appropriate choices given perceptual limitations and finite computation. The central scientific goal of computational intelligence is to understand the principles that make intelligent behavior possible, in natural or artificial systems. The main hypothesis is that reasoning is computation. The central engineering goal is to specify methods for the design of useful, intelligent artifacts.

GOWTHAMI.B, INDHU.K
IV Yr

INTERNET OF THINGS

Imagine a world where billions of objects can sense, communicate and share information, all interconnected over public or private Internet Protocol (IP) networks. These interconnected objects have data regularly collected, analyzed and used to initiate action, providing a wealth of intelligence for planning, management and decision making. This is the world of the Internet of Things (IOT). The IOT concept was coined by a member of the Radio Frequency Identification (RFID) development community in 1999, and it has recently become more relevant to the practical world largely because of the growth of mobile devices, embedded and ubiquitous communication, cloud computing and data analytics.

ESTHER SUGANTHI .D,GANESH KANNAN. M
II Yr

Confidence

Your beauty needs
No confirmation
So stop searching
For exterior validation
Just look within your self
And get familiar
Because behind the
Enhancements and filters
Your imperfection
Will remain
But you must love yourself
Just the same

By:
VASANTH S
II Yr

Bird Song

A delicate fabric of bird song
Floats in the air,
The smell of wet wild earth
Is everywhere.

Red small leaves of the maple
Are clenched like a hand,
Like girls at their first communion
The pear trees stand.

Oh I must pass nothing by
Without loving it much,
The raindrop try with my lips,
The grass with my touch;
For how can I be sure
I shall see again
The world on the first of May
Shining after the rain?

By
MANISHAA.K
III Yr

Procrastination

Procrastination is my sin.
It brings me naught but sorrow.
I know that I should stop it.
In fact, I will – tomorrow!

By
KARTHICK RAJ.G
IVYr

New Year

Tonight's December thirty-first,
Something is about to burst.
The clock is crouching, dark and small,
Like a time bomb in the hall.
Hark, it's midnight, children dear.
Duck! Here comes another year!

By
NANDHISHA.S
III Yr

ஒவ்வொருமுறையும் வெற்றிகாண்கிறேன்
என்தோல்விகளில் மட்டும்!.....

பாலைவனத்தைக்கடக்கிறோம்.
சோலைவந்தால் மகிழ்கிறோம்.
ஏதும் இல்லை நிரந்தரம்
இதுவும் கடந்து போய்விடும்...

By
NAVEEN B
I Yr

தூக்கி எறிந்தேன் கூழாங்கல்
கீழே விழுந்தது நீரில்
கற்பனை மீன் கொத்தி
நிகழ்வுகளை சிக்கப்பழகினால்
நிச்சயமாய் வாழ்க்கை இனிது!....

By
KRISHNA PRASATH M
II Yr

தன்னடக்கம்

நாம மேல ஏற ஏற கீழ இருப்பவர்கள்
சிறிதாய்தெரிய ஆரம்பித்தால் **தன்னடக்கம்**
என்னும் கண்ணாடி அணிந்து கொள்வது
அவசியம். இதை உணர்ந்தவன்
கண்டிப்பாக உயர்வான்.....

SIVA RAMA KRISHNAN R

I Yr



ANDRINE.V.T

IV Yr



ROSHINI.R

III Yr



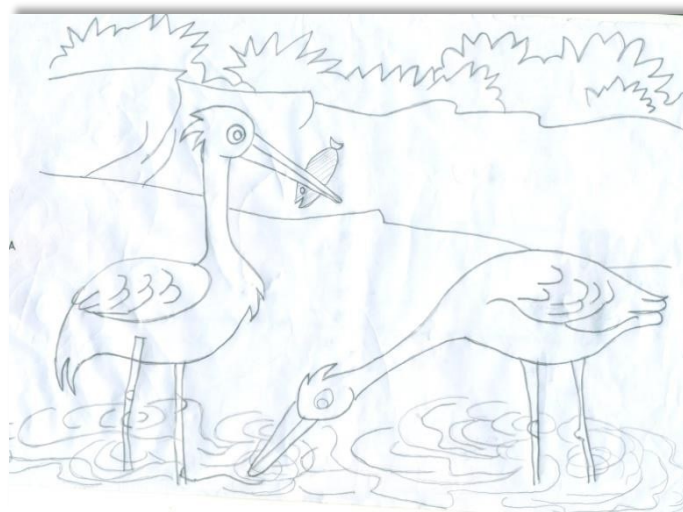
SOWMIYA.S

IV Yr



REETHU R

II Yr



ISWARYA.K

III Yr