ACADEMIC YEAR: 2015-2016

Book Publications

S.NO	NAME OF THE TEACHER	TITLE OF THE BOOK/CHAPTERS PUBLISHED	YEAR OF PUBLICATION	ISBN/ISSN NUMBER OF THE PROCEEDING	NAME OF THE PUBLISHER
1	Dr. M.Venkatesan	Computer Architecture	2015	978-93-84634-89-6	AR Publications Chennai
2	Dr. B.Kalaavathi	Grid and Cloud Computing	2016	978-93-84608-76-7	AR Publications Chennai
3	Dr. B.Kalaavathi	Artificial Intelligence	2016	978-93-84634-84-1	AR Publications Chennai
4	P.Krishna Sankar	Grid and Cloud Computing	2016	978-93-84608-76-7	AR Publications Chennai
5	P.Krishna Sankar	Artificial Intelligence	2016	978-93-84634-84-1	AR Publications Chennai
6	Dr. P.Meenakshi Devi	Computer Architecture	2015	978-93-84634-89-6	AR Publications Chennai

Conference Publications

S.NO	NAME OF THE TEACHER	TITLE OF THE PAPER	TITLE OF THE PROCEEDINGS OF THE CONFERENCE	ISBN/ISSN NUMBER OF THE PROCEEDING	NAME OF THE PUBLISHER
1	Dr.B.Kalaavathi	Review on clinical data mining with psychiatric adverse drug reaction	2016 World Conference on Futuristic Trends in Research and Innovation for Social Welfare (Startup Conclave)	978-1-4673-9214-3	IEEE
2	P.Vijayalakshmi	Zonal Node Authentication Using QoS Differentiation Quotient for Data Delivery in WSN	International Conference on Innovative Engineering and Technology	-	CAAR Publishers
3	S.Hamsareka	Efficient Query Handling on Bigdata by Using Fastraq	2nd International Conference on Electrical,Electronics & Computer Engineering	-	Vivekanandha College of Engineering for women
4	Dr.B.Kalaavathi	Home Electricity Load Forecasting	National Conference on Recent Trends in Engineering Technology (NCRTET'16)	-	KSR Institute for Engineering and Technology
5	Dr.B.Kalaavathi	Implementation of Machine Learning Algorithm in Prognosis of Breast Cancer Using Language	National Conference on Recent Trends in Engineering Technology (NCRTET'16)	-	KSR Institute for Engineering and Technology
6	R.Deebika	Secure Authentication System Using Graphical Password To Avoid Shoulder Surfing Attacks	National Conference on Recent Trends in Engineering Technology (NCRTET'16)	-	KSR Institute for Engineering and Technology

7	M.Saravanan	Medical Expert System for Viral Infection	National Conference on Recent Trends in Engineering Technology (NCRTET'16)	-	KSR Institute for Engineering and Technology
8	Dr.G.Malathy	Gene Classification Using Pattern Discovery Based Classifier Rules	National Conference on Recent Trends in Engineering Technology (NCRTET'16)	-	KSR Institute for Engineering and Technology
9	N.Sharmila	An Innovative Context To Explorate Road Accident Time Series Data	National Conference on Recent Trends in Engineering Technology (NCRTET'16)	-	KSR Institute for Engineering and Technology
10	P.Sumathi	Ensemble Based Learning Approach For Streaming Data Classification	National Conference on Recent Trends in Engineering Technology (NCRTET'16)	-	KSR Institute for Engineering and Technology
11	Dr.R.Jeyabharath	An improved Direct Torque Control using Intelligent Technique for Switched Reluctance Motor Drive	International conference on Emerging Trends in Science, Engineering and Technology		Nandha College of Technology
12	Dr.R.Jeyabharath	Safety and Security in RFID based Multilevel Vehicle Parking System	International Conference on Computer, Electrical, Electronics, Management and Information Technology		Ranganathan Engineering College
13	Dr.P. Veena	ANN based Regenerative Braking system of Electric Vehicle using BLDC Motor	International Conference on Computer, Electrical, Electronics, Management and Information Technology		Ranganathan Engineering College

14	C. Santhakumar	Energy management for Robotic Vehicle Using Tracked Solar Panels	International Conference on Computer , Electrical , Electronics, Management and Information Technology		Ranganathan Engineering College
15	T. Srihari	Advanced Driver Assistance (ADAS) - Speed bump detection	IEEE International Conference on Computational Intelligence and Computing Research		Vikram College of Engineering
16	T. Srihari	An Improved Direct Torque Control Using Intelligent Technique for Switched Reluctance Motor Drive	International Conference on Emerging Trends in Science, Engineering & Technology		Nandha College of Technology
17	T. Srihari	ANFIS based Space Vector Modulation-DTC for Switched Reluctance Motor Drive	IEEE World Conference on Futuristic Trends in Research and Innovation for Social Welfare (WCFTR'16)		Karpagam College of Engineering
18	A.Jeevitha	An Enhanced Discrimination Technique of Distance Relay for Power Transmission Lines During Power Swing and Voltage Instability	National Conference on "New and Renewable Energy Technologies-NRET 2016"		PSG College of Technology
19	A.Jeevitha	Symmetrical Fault Detection of Distance Relay to Prevent Cascade Tripping During Power Swing	International Conference on Green Engineering & Technologies		Karpagam College of Engineering

20	H.Senthil Kumar	Human Detecting System Used For Recue And Defense	International Conference on Computer Electrical And Electronics Engineering	-	Maria College Of Engineering And Technology
21	V.Arun	Increasing the Network Lifetime in Cluster Using Mobile Sinks for Wireless Based Sensor Networks	International Conference on Frontiers of Computational Intelligence	-	K.S.Rangasamy College of Technology
22	T.Senthil	Increasing the Network Lifetime in Cluster Using Mobile Sinks for Wireless Based Sensor Networks	International Conference on Frontiers of Computational Intelligence	-	K.S.Rangasamy College of Technology
23	N.K.Shankar	Increasing the Network Lifetime in Cluster Using Mobile Sinks for Wireless Based Sensor Networks	International Conference on Frontiers of Computational Intelligence	-	K.S.Rangasamy College of Technology
24	W.Devapriya	Advanced driver assistance system-speed bump detection	National Conference on Trends in Engineering Application and Management	-	K.S.R Institute for Engineering and Technology
25	P.Vidhya	Fire Detection And Fire Signature Using Color Models For Security	Future Trends In Control Communication And Power Systems In Association With ISRO	-	Excel College Of Engineering And Technology
26	W.Devapriya	Advance Driver Assistance System (ADAS) Speed Bump Detection	2015 IEEE International Conference on Computational Intelligence and Computer Research	-	Vickram College of Engineering,

|					
27	A.Prabakaran	Graphene Technology	National Conference on Recent Trends in Engineering and Technology NCRTET'16	-	Dept of ECE, K.S.R Institute for Engineering and Technology
28	K.R.Gokul Anand	Intensive plant growth nursing & disease rectification	National Conference on Innovation in Applied Science, Engineering and Technology	-	Arjun College of Technology
29	K.J.Uma	IOT base home automation system for elderly care using embedded systems	National Conference on Trends in Engineering Application and Management	-	Vellalar College of Engineering and Technology
30	Dr.P.Murugesan	Stress Analysis of Smart Support System for a Steam Pipeline of Thermal Power Plant	International Conference on Modelling, Simulation and Control		Karpagam College of Engineering
31	P.Gopinath	CFD combustion analysis of hydrogen supplement with diesel fuel in CI engine	Analysis of Shell and Tube Heat Exchanger with Effect of Baffle Inllination Angle using CFD		K.S.Rangasamy College of Technology
32	R.Vasanthakumar	Review of simulation studies of heat transfer augmentation	Modelling, Simulation and Control		Karpagam College of Engineering
33	R.Vasanthakumar	Enhancement of heat transfer in solar collectors with Nono fluid	Advancements in Science, Engineering, Technology & Management		M.P.Nachinmuthu M.Jaganathan Engineering College
34	R.Vasanthakumar	Enhancement of heat transfer in solar collectors with nano fluid	Evolution of topical in Mechanical Engineering		Vidyaa Vikas College of Engineering and technology
35	S.Balamurugan	Design and Analysis of Piping System Using Caesar-II	International Conference on Modelling, Simulation and Control		Karpagam College of Engineering

36	V.Shanmugam	CFD investigation on modified exhaust manifold for reduction of catalyst light-off temperature duration.	Analysis of Shell and Tube Heat Exchanger with Effect of Baffle Inllination Angle using CFD		K.S.Rangasamy College of Technology
37	S.Poornakumar	Heat Transfer Enhancement analysis of Solar water Heater for various cross sections using Fluid	National conference on fluid Dynamics in Biotechnology Processes		K.S.Rangasamy College of Technology
38	S.Mohanavelan	CFX aAnalysis of convective heat transfer coefficient of Nano Fluids	Recent trends in Engineering and Technology		KSR Institute for Engineering and Technology
39	S.Russia	Trust Based Multipath Authentication Protocol for MANET	International Conference on Alternate Energy Technologies	–	Government college of Technology, Coimbatore
40	M.Dhurga Devi	An analysis of Energy Efficiency Improvement through Wireless EnergyTransfer in Wireless Sensor Networks	International Conference on Electrical, Electronics and Computer Engineering	–	Vivekanandha College of Engineering for Women
41	P.S.Prakash Kumar	Design of smart home environment monitoring system based on Rasperry Pi	International Conference on Modelling, Simulation & Control(ICMSC'15)	–	Karpagam College of Engineering
42	P.S.Prakash Kumar	Cache Invalidation Mechanisms For Maintaining Cache Consistency in Mobile Environments	International Conference on Emerging Trends in Science, Engineering & Technology	–	Nandha College of Technology

43	R.Subapriya	Hybrid FP-Tree Mining Technique and its applicaation on Medical Data	National Conference on Recent Trends in Engineering and Technology (NCRTET'16)	_	KSR Institute for Engineering and Technology
44	M.Soundariya	Hybrid FP-Tree Mining Technique and its applicaation on Medical Data	National Conference on Recent Trends in Engineering and Technology (NCRTET'16)	_	KSR Institute for Engineering and Technology
45	K.G.Lavanya	A Scuritny of Forwarding Strategies for Geographic Routing in MANET	National Conference on Recent Trends in Engineering and Technology (NCRTET'16)	_	KSR Institute for Engineering and Technology

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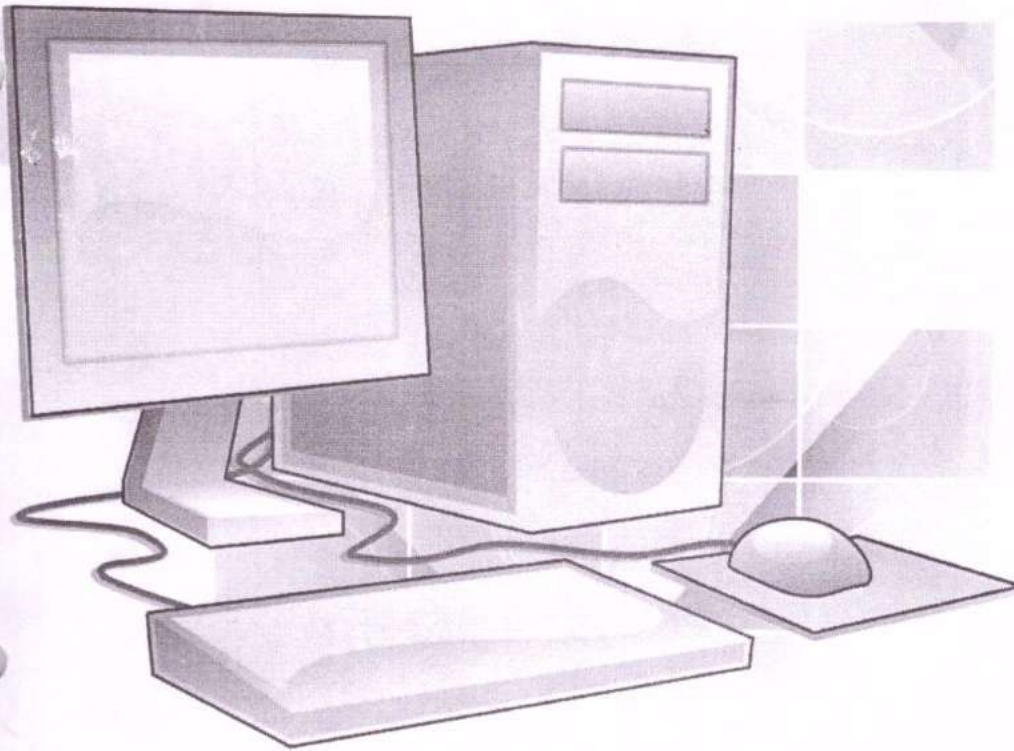
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RADAR AND NAVIGATIONAL AIDS (ELECTIVE -IV) — C.SARANYA
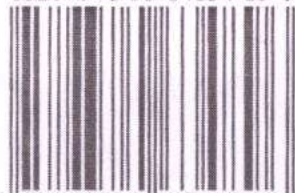OPTO ELECTRONIC DEVICES (ELECTIVE -IV) — Dr.G.RAMPRABU,S.HEMALATHA

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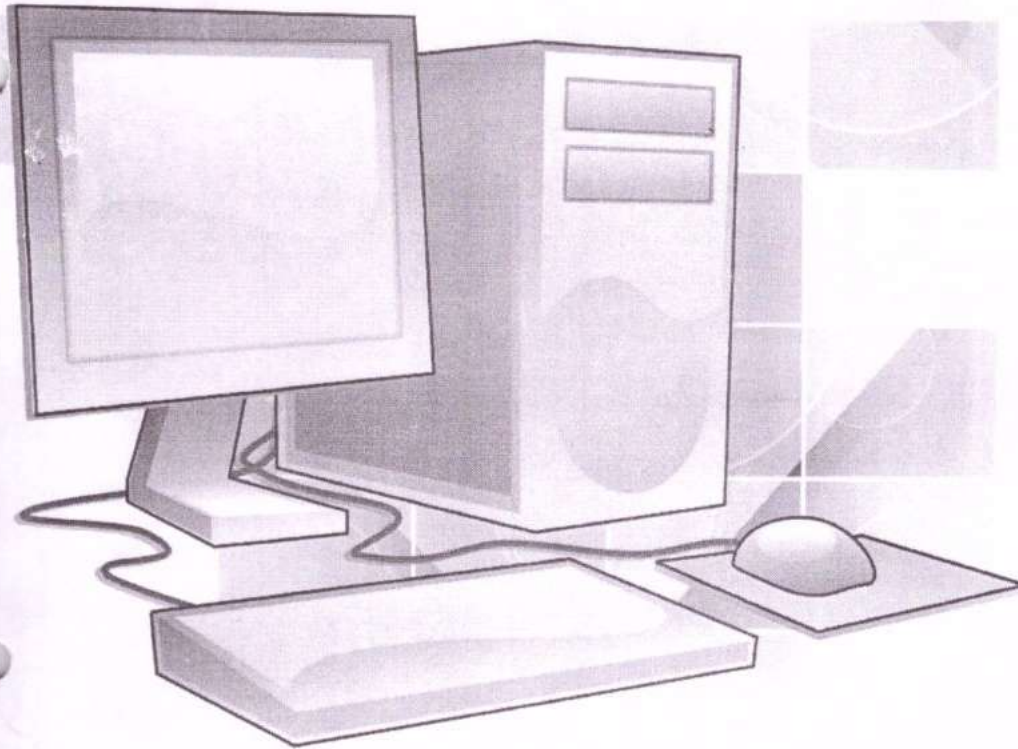K. S. R. KALVI NAGAR,
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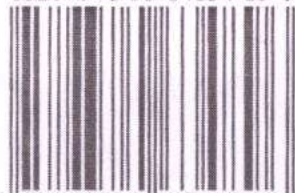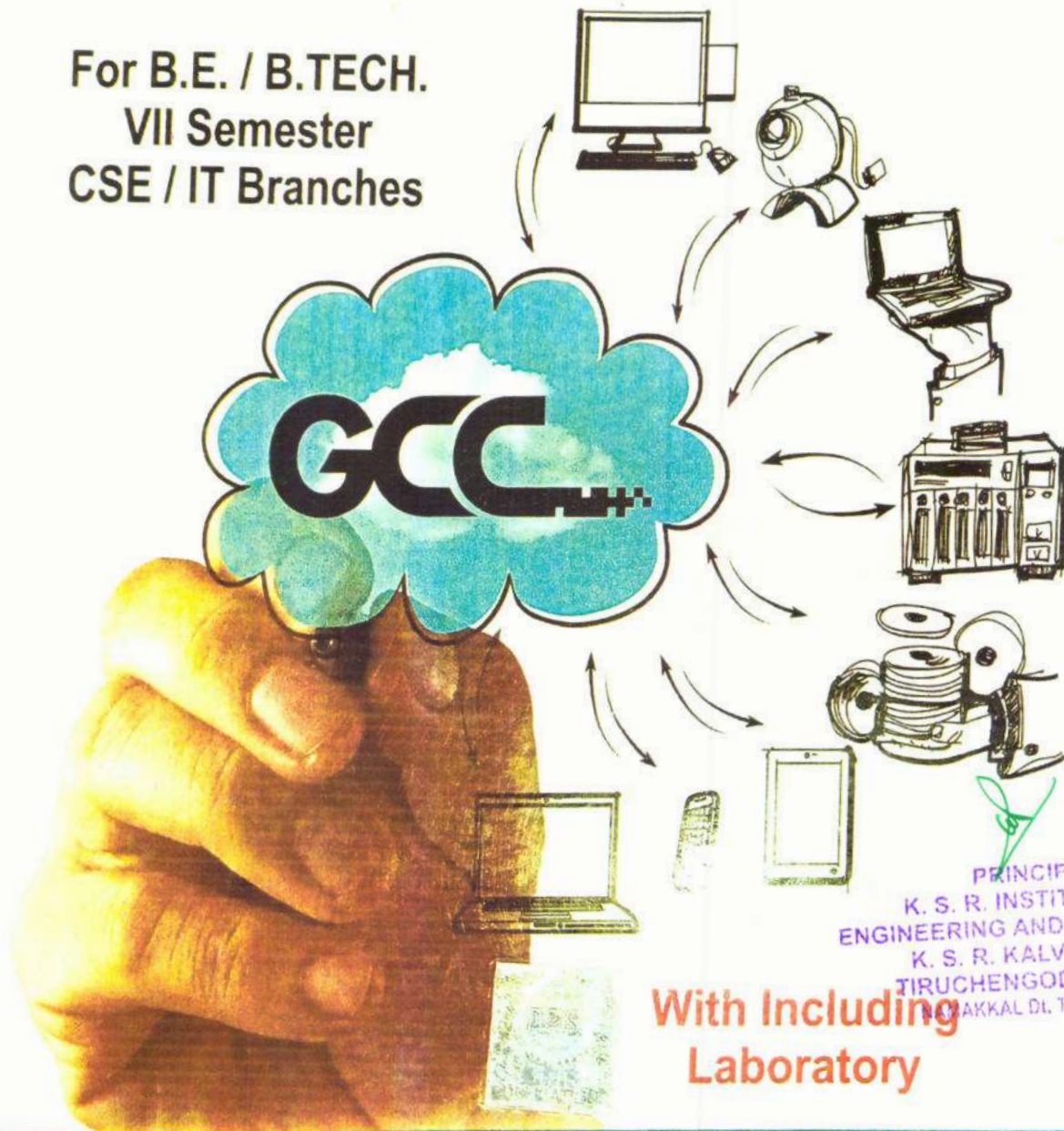|	
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PREFACE

This book "Grid and Cloud Computing" is about an exploratory awareness to solve large scale scientific problems through Grid and Cloud Computing. It contributes an impression towards virtualization as fundamental concept towards cloud computing. It provides a preliminary study on Grid Computing and further briefs into a detailed study on Cloud Computing with various features like Security, Virtualization and environment setup. It provides procedural footsteps for setting up a Grid environment - Globus Toolkit, Cloud Environment – Open Nebula and Hadoop Environment in Ubuntu Linux for Grid and Cloud Computing Laboratory along with sample programs and guidelines.

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Unit IV : Plan generation systems with examples of STRIPS as planning language to implement and different types of planning exist in real world and parameters taken before designing a plan. Different learning methods exist in real world, how machine are instructed through knowledge and adaptive learning methods adopted to improve effective education system.

Unit V : Introductory ideology towards expert system design, knowledge, users and provided with case study of MYCIN, DART, XOON, XCON, Expert System shell.

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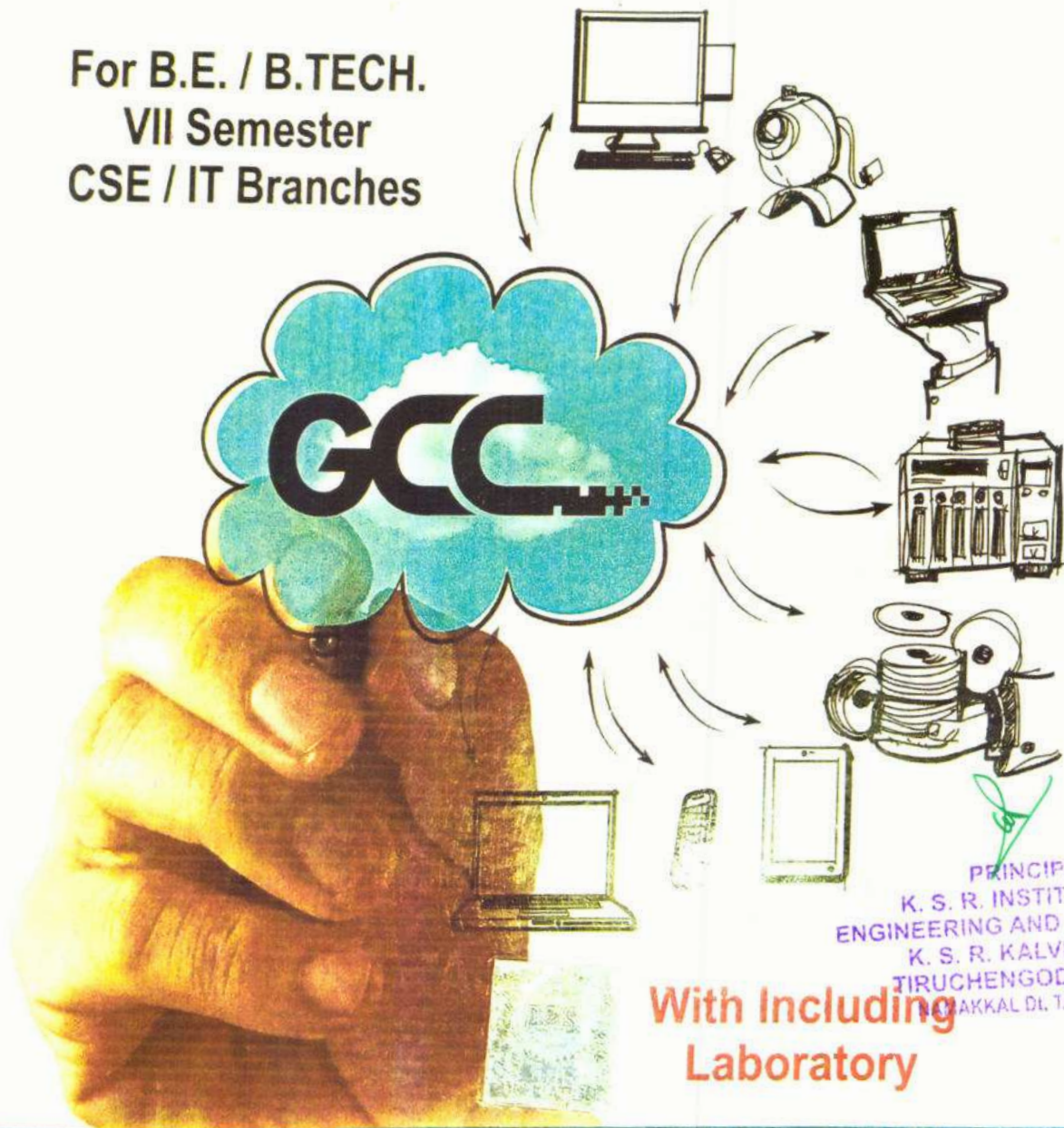# GRID AND CLOUD COMPUTING

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Unit III : Advanced level representation of constructing logic with knowledge for production and frame based along with inference over knowledge of preliminary level through Chaining, Rule Value, Fuzzy, Certainty factors, Baysiean and Dempster-Shafer.

Unit IV : Plan generation systems with examples of STRIPS as planning language to implement and different types of planning exist in real world and parameters taken before designing a plan. Different learning methods exist in real world, how machine are instructed through knowledge and adaptive learning methods adopted to improve effective education system.

Unit V : Introductory ideology towards expert system design, knowledge, users and provided with case study of MYCIN, DART, XOON, XCON, Expert System shell.

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Abstract:

In the past years, human health care system has limited application and the flow of data
was very minimal. But in recent years, health care systems produce huge volume data
because the growth of medical science. We use technology to supervise the complex
data produced by the health care system. Data mining is one of the technologies used
to find the interesting knowledge from the vast data produced by the health care system
and used to analysis the patterns in large sets of data. Association, clustering, and
classification are the tools used to help better exploitation of the data. It helps the health
care professional to confirm the quality of the discovered medicine, prescribed treatment
and the adverse reaction of the drugs.

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A medication error is "any avoidable event that may cause or lead to inappropriate medication use or patient get harm while the medication is in the control of the health care professional, patient, or consumer. Such events may be related to professional practice, health care products, procedures, and systems". The failure outcome of a scheduled medical action or following an unsuitable set of medical actions to reach a goal causes a medical error, which may cause an Adverse Event (AE) [1] [2].

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HOME ELECTRICITY LOAD FORECASTING

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Dr.B.KALAAVATHI, PhD (HEAD OF THE DEPARTMENT)
K.ANITHA, R.KEERTHANA, J.SRUTHI, S.ANANDHI

PAPER ID: 80
D ID: CSE17

ABSTRACT---The purposes of this project is to find a model to forecast the electricity consumption in a household and to forecast the monthly consumption amount. The time series data in our study was individual household electric power consumption from June 2010 to June 2015. The data analysis has been performed with the ARIMA (Autoregressive Integrated Moving Average) and ARMA (Autoregressive Moving Average) models. The result of the study showed that the ARIMA model was the best model for finding the most suitable forecasting period in monthly and quarterly. On the other hand, ARMA model was the best model for finding the most suitable forecasting period in daily and weekly. Implementation is made in R language.

KEYWORDS: Time Series Analysis, ARMA model, ARIMA model, R language

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IMPLEMENTATION OF MACHINE LEARNING ALGORITHM IN PROGNOSIS OF BREAST CANCER USING R LANGUAGE

B. Kalaavathi, Department of Computer Science and Engineering,KSRIET
S.Sabiya,Veeravignesh KR and Vigneshwaran ,KSRIET, veeraviki@gmail.com

PAPER ID: 89

ID: CSE19

ABSTRACT--- Recent advances in molecular biology have enabled the exploration of many different organisms at the molecular level. The importance of classifying cancer patients into high or low risk groups has led many research teams, from the biomedical and the bioinformatics field, to study the application of machine learning (ML) methods. Therefore, these techniques have been utilized as an aim to model the progression and treatment of cancerous conditions. Breast cancer is the most common invasive cancer in females worldwide. Breast Cancer Prognosis is a medical challenge to the researchers in the field of clinical research. Systemic chemotherapy in the adjuvant setting can cure breast cancer in some patients that would otherwise recur with incurable, metastatic disease. However, since only a fraction of patients would have recurrence after surgery alone, the challenge is to stratify high-risk patients from low-risk patients. So we need a system that could predict the relapse and non-relapse of breast cancer from the malignant cases after the patient has undergone treatment for certain time period. Our aim is to classify whether the cancer is relapse or non-relapse using Random Forest technique in R Language from the datasets obtained from NCBI repository which makes use of Affymetrix Human Genome U133A [HG-U133A]

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SECURE AUTHENTICATION SYSTEM USING GRAPHICAL PASSWORD TO AVOID SHOULDER SURFING ATTACKS

Kannan.M[1], Sachin R Doss[2], Vignesh.G[3] , Ms.R.Deebika[4]

Department of Computer Science and Engineering, KSR Institute for Engineering and Technology 1, 2, 3

Assistant professor, Department of Computer Science and Engineering, KSR Institute for Engineering and Technology 4

ID: IC17CS017

Abstract-Authentication based on passwords is used largely in applications for computer security and privacy. However, human actions such as choosing bad passwords and inputting passwords in an insecure way are regarded as "the weakest link" in the authentication chain. Rather than arbitrary alphanumeric strings, users tend to choose passwords either short or meaningful for easy memorization. With web applications and mobile apps piling up, people can access these applications anytime and anywhere with various devices.This evolution brings great convenience but also increases the probability of exposing passwords to shoulder surfing attacks. With a one-time valid login indicator and circulative horizontal and vertical bars covering the entire scope of pass-images, PassMatrix offers no hint for attackers to figure out or narrow down the password even they conduct multiple camera-based attacks. With a one-time valid login indicator and circulative horizontal and vertical bars covering the entire scope of pass-images, PassMatrix offers no hint for attackers to figure out or narrow down the password even they conduct multiple camera-based attacks. We also implemented a PassMatrix prototype on Android and carried out real user experiments to evaluate its memorability and usability. From the experimental result, the proposed system achieves better resistance to shoulder surfing attacks while maintaining usability.

Index Terms:

Graphical Passwords, Authentication, Shoulder Surfing Attack.

AN EFFICIENT M-APP FOR LEARNING TECHNOLOGIES IN IT

[1] M.Ragul, [2]V.Vignesh, , [3] P.Samidurai, [4]K.Kavinkumar ,

1, 2,3,4,UG Scholar, Department of Computer Science and Engineering,

KSR Institute For Engineering and Technology, Tiruchengode.

[1]ragulsmart1415@gmail.com, [2] vickydazzy@gmail.com, [3]sami143d@gmail.com,

[4]kavinkrish82@gmail.com

ID: IC17CS018

Abstract-The main aim of this project is to be able to create E-learning application that can be a great help to IT and CS Students. Also helps People who are interested in programming by using their mobile phones as well, specifically Android phones. It aims to answer if there is any significant difference between the existing webpage e-learning system and this kind of e-learning apps in Android devices in terms of speed, accuracy, user-friendliness, and reliability This e-learning app in Android devices is better than webpage e-learning system because it has

GENE CLASSIFICATION USING PATTERN DISCOVERY BASED CLASSIFIER RULES

Sumithra.P[1], Monika.K[2], Vinodini.K[3], Vidhiya.D[4] Dr.G.Malathy[5]
IV CSE, Department of Computer Science and Engineering, KSR Institute for Engineering and Technology1, 2, 3, 4
Associate professor, Department of Computer Science and Engineering, KSR Institute for Engineering and Technology

ID: IC17CS020

*Abstract-*The frequent pattern mining methods are employed to detect the frequently appeared item sets. Support and confidence threshold levels are used to filter the frequent rules. Label value for the records is assigned with the support of the classification schemes. The labeled records are analyzed to estimate the class patterns. The learned patterns are compared to assign labels for the unlabeled records. The classification tasks can be performed with the integration of the pattern mining and classification techniques. Data sequences are assigned with the class labels using the sequence classification methods. Sequential data items are analyzed with Sequence Classification based on Interesting Patterns (SCIP) scheme. Interesting rules are filtered with support threshold values. Frequent item set discovery, sequence estimation, pruning and classifier rule identification tasks are carried out under the SCIP scheme. The classifier is constructed with the class rules. The gene classification process is carried out using the classifier rules.The gene classification operations are performed with the support of the Sequence Classification based on Refined Interesting Patterns (SCRIP) scheme. The sequence estimation process is improved with redundant timestamp analysis model. The system automatically estimates the threshold values for the rule refinement process. Feasible rules are discovered for each class levels. The Yeast gene expression data values are categorized with the SCRIP scheme. High dimensional data values are compressed with relative attribute groups. The SCRIP scheme produces better performance with high accuracy and minimum computational complexity levels.

Keywords: Gene Classification, Association Rule, Support, Confidence, Pattern, Rule mining, Item set.

AN INNOVATIVE CONTEXT TO EXPLORATE ROAD ACCIDENT TIME SERIES DATA

K.sharankumar, *d.sharmila*, p.s.sowmya, s.sathya
Ksr institute for engineering and technology, tiruchengode,
Tamil nadu, india

ID: IC17CS021

Abstract-Road accident data analysis is an important aspect in identifying the causes of accidents. The factors associated with the accident are identified and it helps to take preventive measures to avoid accidents. Using traditional statistical techniques and data mining techniques, the road accident data were analyzed. The road accident data from different regions were collected and various studies have been done. Since road accidents are uncertain, their impacts are unpredictable. The impacts differ for every road accident. Hence there is a need for road safety in all the regions where the road accident trend is increasing. The varying of road accidents can be studied using time series analysis. In this paper, we have proposed the analysis based on the time series data of road accidents in various districts of Tamil Nadu. This analysis divides the time series into different clusters. For each cluster, a Representative Time Series (RTS) is formed by time series merging algorithm. Multi view point clustering is done for the objects within the cluster. The consequence exposes that road accident trend is going to increase in certain clusters and those regions should have prime apprehension to take deterrent measures to evade accidents.

14

additional features and more functional. Our application connect various platforms in IT like collection of all programming languages, Open Source Programming languages and database concepts in a single roof. Our system leads people to prepare themselves to enrich their skill level in interview point of view. With this app there is an assessment channel to assess themselves to know their level of knowledge in preferred domain. So that surfers can able to improve more and more based on the industry requirement. This app will give confident with them while attending interview since which is portable one, surfer can use anywhere at any time. It leads them in right way to get placed in MNC's with good scale of pay.

Index Terms-Android, Programming, Interview process, Mobile Applications.

MEDICAL EXPERT SYSTEM FOR VIRAL INFECTION

Keerthana. B[1] ,Rama. V[2],Sangavi.S[3] , Soundarya.S[4]Mr. M.Saravanan[5]

IV CSE, Department of Computer Science & Engineering, KSR Institute for Engineering & Technology1, 2, 3, 4

Associate professor, Department of Computer Science and Engineering, KSR Institute for Engineering and Technology5

ID: IC17CS019

Abstract-The web based health services are used to provide remote health services to the patients. The remote health services are provided by the reputed portals and community based health services. The reputed portal provides health related information only. Interactive patient diagnosis operations are supported by the community based health services. The web based health services supports anytime and anywhere access facilities. The question and answer based interactive web applications are designed to communicate the patients to provide medical assistance. Initial diagnosis and decision making operations are supported in the interactive health care services.The medical expert system is an Internet based application that provides the question and answer based patient diagnosis services. The disease identification operations are performed using the answers submitted by the patients. The sytem is divided into two applications. They are patient application and doctor application. The patient application is used to collect and analyze the patient symptom details. The doctor application is used to support decision making and suggestion provisioning operations. The data mining, artificial intelligence and expert system techniques are used in the system. Similar data values are grouped with the support of the K-means clustering algorithm. The system also suggests further medical assistance to the patients.Keywords:K -means algorithm, Clustering, Pattern.

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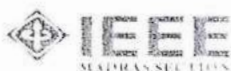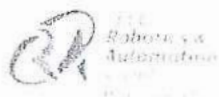
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paper titled Human Detection System Used for Rescue and

Defense

....in the International Conference on "COMPUTER,

ELECTRICAL & ELECTRONICS ENGINEERING" on 18th March 2016.

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DIVERSE KEYWORD EXTRACTION AND CLUSTERING FOR DOCUMENT RECOMMENDATION IN CONVERSATIONS

S. PRABHA
ASSISTANT. PROFESSOR
Department of IT
K.S.R college of technology
Prabha.dw@gmail.com

K. DURAISAMY
ACADEMIC DEAN
K.S.R college of technology

M. SIVARANJANI
PG SCHOLAR
Department Of IT
K.S.R college of technology
siva30.3.94@gmail.com

Abstract- Keyword Extraction is an important method in many areas of document processing such as text clustering, text summarization, and text retrieval. This paper addresses the problem of keyword extraction from conversations, with the goal of using these keywords to recover, for each small conversation section, a small number of potentially related documents, which can be suggested to participants. However, even a short fragment contains a variety of words, which are potentially related to more than a few topics using an automatic speech recognition (ASR) system introduces errors among them. Therefore, it is difficult to infer precisely the information needs of the conversation participants. To extract keywords from the output of an ASR system (or a manual transcript for testing), which makes exploit of topic modeling techniques and of a sub modular reward function which favors diversity in the keyword set, to equivalent the potential diversity of topics and reduce ASR noise. The method to derive multiple topically separated queries from this keyword set, in order to make best use of the chances of creation at least one relevant suggestion when using these queries to explore over the English Wikipedia.

Keyword - *Document recommendation, information retrieval, keyword extraction, meeting analysis, topic modeling.*

INCREASING THE NETWORK LIFETIME IN CLUSTER USING MOBILE SINKS FOR WIRELESS BASED SENSOR NETWORKS

T.SENTHIL

J.DEEPIKA

N.K.SHANKAR

V.ARUN

Department of ECE
KSR Institute for
Engineering and
Technology,
Namakkal, India

Department of IT
K.S. Rangasamy College
of Technology
Namakkal, India

Department of ECE
KSR Institute For
Engineering and
Technology
Namakkal, India

Department of ECE
KSR Institute For
Engineering and
Technology
Namakkal, India

t.senthilece@gmail.com

deepi.realmail@gmail.com

vlsishankar@gmail.com

venarunxp@gmail.com

@KSRCT INFORMATION TECHNOLOGY

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S. PRABHA
ASSISTANT. PROFESSOR
Department of IT
K.S.R college of technology
Prabha.dw@gmail.com

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V.ARUN

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KSR Institute for Engineering and Technology, Namakkal, India

Department of IT
K.S.Rangasamy College of Technology Namakkal, India

Department of ECE
KSR Institute For Engineering and Technology Namakkal, India

Department of ECE
KSR Institute For Engineering and Technology Namakkal, India

t.senthilece@gmail.com

deepi.realmail@gmail.com

vlsishankar@gmail.com

venarunxp@gmail.com

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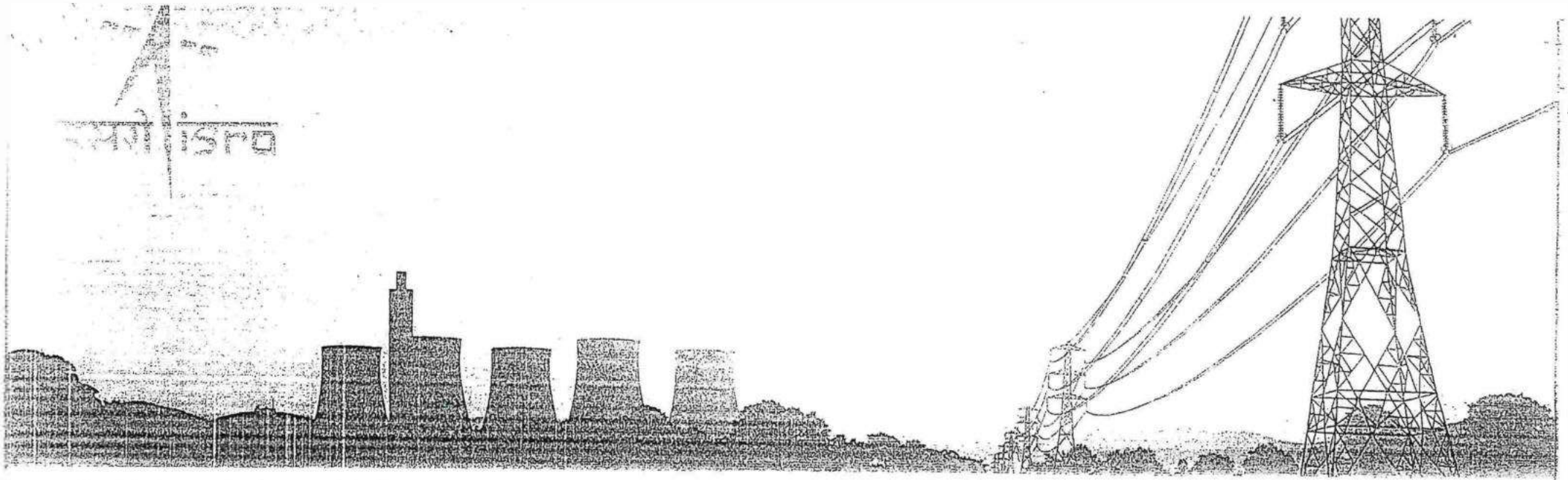........ SPEED BUMP DETECTION...

the Fourth "National Conference on Recent Trends in Engineering and Technology

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with authors W. DEVAPRIYA , T. SRIHARI , C. NELSON KENNEDY BABU

was presented by W. DEVAPRIYA

in the 2015 IEEE International Conference on Computational Intelligence and Computing Research held during 2015 | DEC | 10 to 12

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GRAPHENE TECHNOLOGY

V.Lokesh kumar[1], R.Gokulakrishnan[2], A.Prabakaran[3]
UG Student[1], UG Student[2], Assistant Professor[3], Department of ECE
K S R Institute for Engineering and Technology,
loki631995@ gmail.com[1], jrgkrish@gmail.com[2], aprabaece@gmail.com[3]

Paper ID: 32
DID: ECE07

ABSTRACT-- I have an idea which will change the entire world. I have technology which is called future electronics. In future there is only one technology and all other technology will be replaced by it. What will you do If I say I can generate very large amount of energy in very short time, I can make car battery which can charge just in 30 seconds and cell phone battery will completely charged in 5 seconds, The material which can hold much large energy than any other battery and charge very quickly than any other capacitor. It can filter sea water in just few minutes. Take my filter and I can directly drink sea water through this filter without doing anything. All of it is possible by just one material called GRAPHENE.

IOT BASED POWER TRACKING SYSTEM

V. Naagha Naveen Kumar[1]
UG Student[1], Department of ECE, K S R Institute for Engineering and Technology,
naveennaagha1997@gmail.com[1]

Paper ID: 33
DID: ECE08

ABSTRACT-- This paper is about power hacking. In many part of the world people are hacking power which is transmitted by our electricity board. We are here to find the power hacking by IOT technique. We have used wifi module, arduino or raspberry board for interfacing energy meter and our mobile phone. This is by developing an application (app). Here RS232 programming cables are used to get data from energy meter and sent to arduino board and then arduino board sends data through wifi module. The app is developed based on wifi technology so that the data can be accessed by our mobile application (app). Energy meter consist of AMR connector and the programming cable is connected through the AMR connector to interface energy meter and arduino board which is connected to wifi module. Data transmitted through the wifi module is received in mobile application (app).In electricity transmission losses are calculated and it is noted. Changes are observed and updated in the app. Power consumption can be seen in the mobile application(app).If there is any mismatch in the data an alert message is sent to your mobile through IOT technique. By implementation of this technique many power hackers can be found out and punished for their illegal activity.

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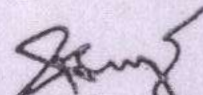
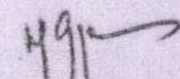### Certificate of Participation

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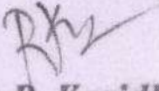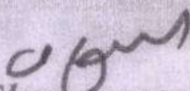
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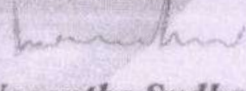
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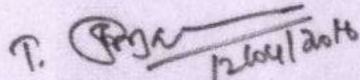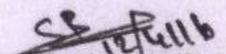TIRUCHENGODE - 637 215,
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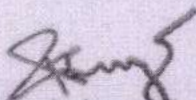### Certificate of Participation

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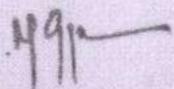
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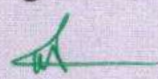**(Approved by AICTE, New Delhi & Affiliated to Anna University)**

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on
ELECTRICAL, ELECTRONICS & COMPUTER ENGINEERING
ICEECE - 2016

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
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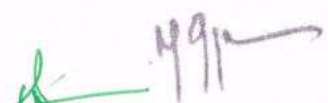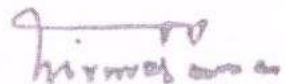# Department of Mechanical Engineering

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a paper entitled CACHE INVALIDATION MECHANISMS FOR MAINTAINING CACHE CONSISTENCY

IN WIRELESS MOBILE ENVIRONMENTS in the First International Conference on "EMERGING

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Hybrid FP-tree Mining Technique and its application on Medical data

Subapriya.R[#1], Soundariya.M[#2]
[#1]Assistant Professor [#2]Assistant Professor
[#1,#2] Department of Information Technology,
KSR Institute for Engineering and Technology, Tiruchengode.

PAPER ID:94

DID: IT21

Abstract- Association rule mining is the one of the major discipline in the field of data mining. Many association rule mining algorithms are used for various types of data analysis. However, only little analysis has been made on medical data. Modern health care system needs more analysis on medical data for diagnosing the disease. Apriori is the common algorithm used for medical data analysis. Since Apriori generates a huge number of candidate itemsets, it lacks in both objectiveness and efficiency. FP-growth algorithm outperforms Apriori by constructing a tree based structure. The computational complexity of FP-growth algorithm is relatively high since it performs recursive mining operation. Hybrid FP-tree mining method is the one of the improvement of FP-Growth algorithm which eliminates recursive mining. Experiments were conducted using four different medical datasets such as heart, diabetes, breast cancer and hepatic diseases. In this paper, the performance of FP-growth and hybrid FP-tree mining algorithm is analyzed on the datasets.

A Scrutiny of Forwarding Strategies for Geographic Routing in MANET

Lavanya Gurusamy lavanyakg@gmail.com
Department of Information Technology,
KSR Institute for Engineering and Technology, Tiruchengode.

Paper ID: 106
DID: IT22

ABSTRACT---Geographic routing protocols are highly scalable and robust in mobile ad hoc networks (MANET) since it is not necessary to maintain routes explicitly. To make effective forwarding decision, nodes need to maintain the location information of the neighboring nodes within its vicinity by periodically broadcasting the beacon packets. But periodic beaconing causes performance degradation by consuming bandwidth and energy. The performance of geographic routing can be improved through adaptive beaconing. In this paper, we provide a survey of adaptive beaconing in geographic routing for mobile ad hoc networks (MANET) and discuss the advantages and disadvantages of various beaconing strategies. Also we define some open issues and possible directions of future research related to using adaptive beaconing for mobile ad hoc networks.

Keywords: Geographic Routing, Beaconing, MANET, Bandwidth, Energy.

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Hybrid FP-tree Mining Technique and its application on Medical data

Subapriya.R[#1], Soundariya.M[#2]
[#1] Assistant Professor [#2] Assistant Professor
[#1,#2] Department of Information Technology,
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Keywords - FP-tree, frequent itemset mining, Association rules, Apriori algorithm, Conditional FP, FP-tree[+].

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