K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM

Department of Information Technology

Faculty Details as Published National / International Conferences

Academic Year: 2017-2018

Total International Conferences = 06   **Total National Conferences = 07**

Sl. no.	Name of the Faculty	National / International	Title of Conference	Month and Year of the Event
1	**Dr. R. Alageswaran**	International	**Title:** "Luggage Tracking using RFID and IoT in Airport" **Author:** Dr. R. Alageswaran **Conference:** International Conference on Innovations in Engineering and Industrial Applications, ICIEIA-2018 at K.L.N College of Engineering, 11th & 12th May 2018.	May - 2018
2	**Dr. G. Ramesh**	International	**Title:** "An Efficient Privacy Preserving Authentication with Pairwise Key Generation In VANET Environment" **Author:** Mr. G. Ramesh **Conference:** International Conference on Innovations in Engineering and Industrial Applications, ICIEIA-2018 at K.L.N College of Engineering, 11th & 12th May 2018.	May - 2018
3		International	**Title:** "A HYBRID Approach for secure message Transmission by Pairwise Key Generation in MANET Environment" **Author:** Mr. G. Ramesh **Conference:** International Conference on Recent trends in Mathematics and Information Technology (ICRMIT – 2018) at Avinashilingam Institute for Home Science and Higher Education for Women, 1st & 2nd March 2018.	March - 2018
4	**Mr. S. Ilangovan**	National	**Title:** "Effective Data Classification based on Entropy Genetic Algorithm for data mining Application" **Author:** Mr. S. Ilangovan **Conference:** National Conference of NCRTIES 2K18 at Sri Venkateswara Institute of Science and Technology, Thiruvallur, March 28, 2018.	March - 2018

5	**Mr. S. Ilangovan**	International	**Title:** "A Relief F Based Hybrid Feature Selection For High Dimensional Dataset" **Author:** Mr. S. Ilangovan **Conference:** International Conference on Innovations in Engineering and Industrial Applications, ICIEIA-2018 at K.L.N College of Engineering, 11th & 12th May 2018.	May - 2018
6	**Mr. C. Pandian**	National	**Title:** "Location Prediction using Random Forest for Webpages" **Author:** Mr. C. Pandian **Conference:** National Conference of NCRTIES 2K18 at Sri Venkateswara Institute of Science and Technology, Thiruvallur, March 28, 2018.	March - 2018
7	**Mrs. C. Manjula Devi**	National	**Title:** "Voice Recognition mine detection robot" **Author:** Mrs. C. Manjula Devi **Conference:** National Conference on Recent developments in computational methods for renewable energy at Viswajyothi College of Engineering and Technology, Vazhakulam, Muvattupuzha, Ernakulam, Kerala, April 12 & 13, 2018.	April - 2018
8		National	**Title:** "Detecting Anomalous Behaviour in Online Shopping Sites" **Author:** Mrs. C. Manjula Devi **Conference:** National Conference of NCRTIES 2K18 at Sri Venkateswara Institute of Science and Technology, Thiruvallur, March 28, 2018.	March - 2018
9	**Mrs. S. Padmapriya**	National	**Title:** "Multi Keyword Search using Hash Ternary Algorithm" **Author:** Mrs. S. Padmapriya **Conference:** National Conference of NCRTIES 2K18 at Sri Venkateswara Institute of Science and Technology, Thiruvallur, March 28, 2018.	March - 2018
10	**Mr. J. Karthikeyan**	National	**Title:** "Remote Exploration Surveillance Robot (RESBOT)" **Author:** Mr. J. Karthikeyan **Conference:** National Conference of NCRTIES 2K18 at Sri Venkateswara Institute of Science and Technology, Thiruvallur, March 28, 2018.	March - 2018
11		National	**Title:** "Autonomous Fire Fighting Robot" **Author:** Mr. J. Karthikeyan **Conference:** National Conference of NCRTIES 2K18 at Sri Venkateswara Institute of Science and Technology, Thiruvallur, March 28, 2018.	March - 2018

| 12 | **Ms. S. Vijaya Sharmila** | International | **Title:** "Automatic Data Analyzing And Processing Through NLP"
Author: Ms. S. Vijayasharmila
Conference: International Conference on Innovations in Engineering and Industrial Applications, ICIEIA-2018 at K.L.N College of Engineering, 11th & 12th May 2018. | May - 2018 |
| 13 | **Mr. J. Gautam** | International | **Title:** "Avoidance of Black Hole Attack using revised AODY Protocol and Trust Mechanism"
Author: Mr. J. Gautam
Conference: International Conference on "Applied Soft Computing Techniques (ICASCT'18)" held at Kalasalingam Academy of Research and Education, Krishnankoil, March 23 – 24, 2018. | March - 2018 |

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Luggage Tracking Using RFID and IoT in Airport

Vendhan Duraisamy[a] Alageswaran Ramaiah[b] Venkatesh S[c]

[a]Assistant Professor, Kamaraj College of Engineering and Technology, nahdnev@gmail.com
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Abstract

The Internet of Things (IoT) is a concept that envisions all objects around us as part of internet. It is an internetworking of physical devices, vehicles, buildings, and other items that are embedded with electronics, software, sensors, and network connectivity that enable these objects to collect and exchange data. This paper focuses mainly on ensuring safety and security to passenger luggage using RFID concept. An RFID tag is allotted to passenger luggage which provide tracking facility to the passenger and ensures safety to it. Data from Radio Frequency is collected and stored using RF transceiver. The information from the receiver is passed into the cloud. The signal is detected and tracked through mobile application. RFID technology is expected to reduce mishandling and confusion between the luggage of the customers. It reduces the manpower and waiting time of the customer for their luggage. It is most reliable and cost-effective technology to increase capacity and improve the luggage handling process.

Keywords - RFID Tag, RFID Reader, Mobile Application

1. Introduction

Here **R**adio Frequency Identification Technology has moved from obscurity into mainstream applications that help speed the handling of manufactured goods and materials. RFID enables identification from a distance and unlike earlier bar-code technology it does so without requiring a line of sight. RFID tags support a larger set of unique IDs than bar codes and can incorporate additional data such as manufacturer, product type, and even measure environmental factors such as temperature. RFID systems can discern many different tags located in the same general area without human assistance.

RFID isn't as cheap as traditional labelling technologies, but it does offer added value and is now at a critical price point that could enable its large-scale adoption for managing the consumer retail goods. The principles of RFID, discuss its primary technologies and applications, and in review the challenges organizations will face in deploying this technology. Many types of RFID exist, but at the highest level, we can divide RFID devices into two classes: active and passive[1]. Active tags require a power source they're either connected to a powered infrastructure or use energy stored in an integrated battery. In the latter case, a tag's lifetime is limited by the stored energy, balanced against the number of read operations the device must undergo. One example of an active tag is the transponder attached to an aircraft that identifies its national origin. Another example is a LoJack device attached to a bag, which incorporates cellular technology and a GPS to locate the bag if stolen.

An Efficient Privacy Preserving Authentication With Pairwise Key Generation InVanet Environment

Lakshmi Priya. S[a], Ramesh.G[b]

[a]M.E Scholar, Department of IT, K.L.N College of Engineering, Pottapalayam
[b]Professor, Department of IT, K.L.N College of Engineering, Pottapalayam

Abstract: Vehicular Ad Hoc Network (VANET) serves as an application of intelligent transportation system (ITS) that improves traffic safety as well as efficiency. Our hybrid approach combines the useful features of both the pseudonym based approaches and the group signature-based approaches to preclude their respective drawbacks. The proposed approach neither requires a vehicle to manage a certificate revocation list, nor indulges vehicles in any group management. Hence, we have suggested an approach to fulfill these security needs for information transmission between two or more vehicles in doubtful network infrastructure. Thus, vehicles can send/receive their important credentials through our secure message exchanging algorithm. Because, in our algorithm, we have used idea of public-private key encryption-decryption mechanism in the computation of messages which is sent over public channel.

Constraint Based Automatic Recommendation System

Kamalesh Jain P[a],JerishRichardsonR[b], Dinesh Kumar M[c]

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Abstract:At present some of the shopping websites just display the products based on the prices rather than considering the customer's interest and suggesting much better products than the product searched. Our proposed system identifies the products based on their characteristics and suggests the best products within the user's interest and cost of the desired product and display to the user. Further, we keen on the user's budget and interest is recorded and suggested in future if available.

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...... TRANSMISSION BY PAIR WISE KEY GENERATION IN ....

...... VANET ENVIRONMENT ....

in the International Conference on Recent trends in Mathematics and

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Based on Entropy Genetic Algorithm for data Mining Application in the

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A RELIEF F BASED HYBRID FEATURE SELECTION FOR HIGH DIMENSIONAL DATASET

Amsleka R Lavanya P Mahalakshmi R Ilangovan S,
UG scholar, Department of IT, KLN College of Engineering, Sivagangai,
UG scholar, Department of IT, KLN College of Engineering, Sivagangai
India Assistant professor, KLN college of engineering, Sivagangai, India

Abstract: This paper presents a novel combination of filter features selection algorithms for classification problem. Feature selection is one of the most important issues in pattern recognition, machine learning and computer vision. The main objective of feature selection regards the dimensionality reduction, the performance of machine learning improvement and the process comprehensibility increase. Exhaustive search method is the only method which guarantees to find the optimal subsets but its computational time complexity is exponential. In this paper the set of available variables are firstly reduced using a combination of filter selection methods and then exhaustive search is performed in order to obtain a sub-optimal set of variables in a reasonable time. The proposed approach is tested on several commonly used datasets from UCI repository.

Keywords: Knowledge discovery, Datamining, feature selection, genetic algorithm, classification.

MQ – 135 BASED ECOLOGICAL CHECKING

T.S.Azith lal, M.Mohamed aasif, M.K.B.Manikandan
UG scholar, Department of IT, KLN College of Engineering, Sivagangai,
UG scholar, Department of IT, KLN College of Engineering, Sivagangai

Abstract: Environmental monitoring is defined as the processes and activities that need to take place to characterize and monitor the quality of the environment. This field is based on remote sensing and on wireless sensor networks for gathering data about the environment. For example, the vision of the Internet of Things (IoT) offer help for the transmission and administration of immense measures of information with respect to the patterns saw in natural parameters. . In this context, the current work presents three different IoT-based wireless sensors for environmental, one used for Air quality monitoring –MQ 135 module (sensitive to ammonia, sulphide, benzene steam and also sensitive to smoke and harmful gases). The Arduino Uno act as a processing unit to transfer sensor data to cloud space by using ESP 8266 Wifi Module. The feasibility of the three developed systems for implementing monitoring applications, taking into account their energy autonomy, ease of use, solution complexity, and Internet connectivity facility, was analyzed, and revealed that they make good candidates for IoT-based solutions.

Index Terms: IEEE 802.11 standards, Internet of Things (IoT), low-power electronics.

Keywords: IEEE 802.11 standards, Internet of Things (IoT), low-power electronics.

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in the SERB sponsored National Conference on Recent developments in computational methods for renewable energy held on 12th & 13th April, 2018 at Viswajyothi College of Engineering and Technology, Vazhakulam, Muvattupuzha, Ernakulam, Kerala.

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Automatic data analyzing and processing through NLP

S.Vijayasharmila[1], P.G.Saravanan[2], S.SuryaPrakash[3], M.S.Ragul[4]

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[2]*UG Student, Department of Information Technology, K.L.N.College of Engineering, Pottapalayam, Tamilnadu, India*
[3]*UG Student, Department of Information Technology, K.L.N.College of Engineering, Pottapalayam, Tamilnadu, India*
[4]*UG Student, Department of Information Technology, K.L.N.College of Engineering, Pottapalayam, Tamilnadu, India*

Abstract: The main objective of this project is to analyze the text data and process them using tokenization. The process of splitting a word in a sentence is said to be tokenization. The proposed idea checks the spelling and grammatical mistakes of the input given by the user by using Natural Language Processing (NLP) functions. Here NLP is proposed using an algorithm which aims at translating the given sentences into a foreign language with the help of machine translation. The main advantages of using NLP are fast processing, user-friendliness, inferring solutions which may or may not be created previously. The most important aspect of NLP is its ability to converse in the language which we choose and it has a wide variety of applications. Experimental result of this project shows that NLP is quite efficient and time saving.

Keywords: Machine Translation, NLP, Spell Check, Tokenization, Time saving.

An Android Application for Online Voting System using Aadhar Card

R.ArunaDevi[1] ,M.G.Saumya[1], S.A. Angayarkanni[2]

arun14108.it@rmkec.ac.in,mg14201.it@rmkec.ac.in,saa.it@rmkec.ac.in

[1]*Students, [2]Assistant Professor,*

Department of Information Technology,

R.M.K. Engineering College, Kavaraipettai

Abstract: The percentage of casting of vote during election period is becoming less day by day. The Indian citizens those who are living in other countries can't cast their vote, those whose are sick, old aged and visually handicapped. Each and every person has their own right to vote as an Indian citizen and it is also a rule followed in our country. In the era of smart phone, we give an opportunity to the people those who are not able to vote. The proposed system can handle voting at different levels such as Parliamentary, Municipality, State legislative assembly, University, Colleges and Schools, etc. simultaneously. Our android application relies both on security and integrated web services to vote from anywhere with all necessary proofs such as voter id, photo, Aadhar card, etc.

Keywords: Aadhar card dataset, Fingerprint Matching, Finger Print, Voting System.

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