MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE, GUNTUR
Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada
(An ISO9001:2008 Certified Institution)
Pulladigunta (Vil), Vatticherukuru (Md), Prathipadu Road, Guntur – 522 017 A.P.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

13KE PROJECT BATCHES (2016-1)

Sr. No	Batch & Domain	Regd. No.	Name of the Student	Project Title	Name of the Guide
1	B1(ES)	13KE1A0453	SK. SHABEENA	AUTONOMOUS AGRICULTURAL ROBOT	Mr CH.Ramesh
2		13KE1A0401	A. LAKSHMI PRIYANKA		
3		13KE1A0405	A.LAKSHMI PRASANNA		
4		13KE1A0425	K. RAJYALAXMI		
5		13KE1A0454	S. SRAVANI		
6	B-2 (ES)	13KEIA0429	K.SAI MOUNIKA	BIOMETRIC AUTHENTICATION BASED VEHICULAR SAFETY AND CONTROL SYSTEM	Mr K.RAVI KUMAR
7		13KEIA0406	B.MANISHA		
8		13KEIA0410	CH.L.BHAVANI		
9		13KEIA0426	K.SIRISHAA		
10	B-3 (IOT)	14KE5A0401	K.VIDY ADHARI	IOT BASED HOME AUTOMATION	Mr Y.BHASKARA RAO
11		13KEIA0421	D.VAHIMA		
12		13KE1AO416	CH.KETHANA		
13		13KEIA0434	M.NAGA TEJASWI		
14	B-4 (ES)	13KEIA0452	SHAIK.RIZWANA	SOLAR MAXIMUM POWER POINT TRACKING SYSTEM	Mr S.RATNAKAR
15		13KEIA0440	P.MANJU BHARGAVI		

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16		13KEIA0445	R.DURGA SRAVANI		
17		13KEIA0414	CH.PHANI SRI		
18	B-5 (IOT)	13KEIA0417	CH.MOUNIKA	IOT BASED GARBAGE MONITORING SYSTEM	Mrs K.SWETHA
19		13KEIA0430	L.V.SIRISHA		
20		13KEIA0424	K.MOUNIKA		
21		14KESA0402	P.PAVANI SRI		
22	B-6 (ES)	13KEIA0404	A.GEETHA KRISHNA	0TP BASED BANK LOCKER SECURITY SYSTEM	Mrs K.SARADA
23		13KEIA0460	V.MALLESWARI		
24		13KEIA0419	D.LAKSHMI PRIYA		
25		13KEIA0458	V.DIVYA		
26		13KEIA0459	V.SRILATHA		
27	B-7 (IOT)	13KEIA0408	CH.ANITHA	1OT BASED HEALTH MONITORING SYSTEM"	Mr D.VIJAYA SARADHI
28		13KE1A0412	CHVASANTHA LAXMI		
29		13KEIA0420	D.SRILAKSHMIANURADHA		
30		13KE1A0461	V.SASIKALA		
31	B-8 (ES)	13KEIA0428	K.VASAVI	BO1LER MONITORING AND AUTO CONROLLING THROUGH GSM	Mr P.BUJN BABU
32		13KEIA0443	P.LATHA SREE		
33		13KEIA0431	L.GOVARDHANA		
34		13KEIA0413	CH.SAILAJA		

35	B9 (ES)	13KEIA0437	P.LIKHITHA	ROBOT NAVIGATION SYSTEM USING MATLAB GUI	Mr K.HARI BABU
36		13KEIA0446	R.SAISRAVYA		
37		13KEIA0432	M.ADILAKSHMI		
38		13KEIA0433	M.MOUNIKA		
39	B-10 (ES)	13KE1A0447	S.JYOTHIRMAI	LIGHT FOLLOWING ROBOT USING LDR SENSOR	Mrs G.NIRMALA KUMARI
40		13KE1A0450	SK.ILIYAZ BEGAM		
41		13KE1A0441	P.SRAVANI		
42		13KE1A0407	B.GURUVARDHINI		
41	B-11 (ES)	13KE1A0457	V.SIVANAGAJYOTHI	SMART GADGET FOR WOMEN SAFETY AND SECURITY SYSTEM	Mr P.BUJIBABU
42		13KE1A0444	R.JAYANTHI		
43		13KEIA0411	CH.SAILAKSHMI		
44		13KEIA0451	SK.JASMIE		
45	B-12 (ES)	13KEIA0409	CH.SRAVANI	PASSENGERS ALERTING SYSTEM IN TRAINS	D. RAMYA KRISHNA
46		13KEIA0436	N.ANJALI		
47		13KEIA0456	T.NIKHILA		
48		13KEIA0462	V.PRAVALLIKA		
49	B-13 (ES)	13KEIA0403	A.Sudharani	INTELLIGENT ALCOHOL DETECTION AND ENGINE LOCKING SYSTEM	Mr CH. Ramesh
50		13KEIA0422	G.Mamathasri		
51		13KEIA0448	S.Ananthalakshmi		

52		13KEIA0455	S. JAYALAKSHMI		
53	B-14 (ES)	13KEIA0415	CH.HARITHA	REAL TIME INDUSTRIAL PROCESS MONITORING AND CONTROLLING USING MOBILE PHONE	K. RAVI KUMAR
54		13KEIA0423	L.NAGASINDHUJA		
55		13KEIA0449	S.MOUNIKA		
56		13KEIA0439	P.SUJTTHA		

Project Incharge

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Principal

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AUTONOMOUS AGRICULTURAL ROBOT

Submitted to Jawaharlal Nehru Technological University, Kakinada

In partial fulfillment of requirement for the degree of

Bachelor of Technology

In

ELECTRONICS AND COMMUNICATON ENGINEERING

Submitted by

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(13KE1A0453)

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Under the guidance of

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ASSOCIATE PROFESSOR,HOD

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

(Approved by A.I.C.T.E & Affiliated to Jawaharlal Nehru Technological University Kakinada)

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in partial fulfillment for the award of Bachelor of Technology in Electronics & Communication Engineering to the Jawaharlal Nehru Technological University, Kakinanda is a record of bonafide work carried out by them under my guidance and supervision.The results embodied in this project report have not been submi -tted to any other University or Institute for the award of any degree or diploma.

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BIOMETRIC AUTHENTICATION BASED VEHICULAR SAFETY AND CONTROL SYSTEM

Submitted to Jawaharlal Nehru Technological University, Kakinada

In partial fulfilment of requirement for the award of degree

Bachelor of Technology
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IOT BASED HOME AUTOMATION

Submitted to Jawaharlal Nehru Technological University, Kakinada

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SOLAR MAXIMUM POWER POINT TRACKING SYSTEM

Submitted to Jawaharlal Nehru Technological University, Kakinada

In partial fulfillment of requirement for the degree of

Bachelor of Technology

In

ELECTRONICS AND COMMUNICATON ENGINEERING

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IOT BASED GARBAGE MONITORING SYSTEM

Submitted to Jawaharlal Nehru Technological University, Kakinada

in partial fulfillment of requirement for the degree of

Bachelor of Technology

in

ELECTRONICS AND COMMUNICATON ENGINEERING

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OTP BASED BANK LOCKER SECURITY SYSTEM

Submitted to Jawaharlal Nehru Technological University, Kakinada

In partial fulfillment of requirement for the degree of

Bachelor of Technology

In

ELECTRONICS AND COMMUNICATON ENGINEERING

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IOT BASED HEALTH MONITORING SYSTEM

Submitted to Jawaharlal Nehru Technological University, Kakinada

in partial fulfillment of requirement for the degree of

Bachelor of Technology

in

ELECTRONICS AND COMMUNICATON ENGINEERING

Submitted by

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BOILER MONITORING AND AUTO CONTROLLING THROUGH GSM

Submitted to Jawaharlal Nehru Technological University, Kakinada

In partial fulfillment of requirement for the degree of

Bachelor of Technology

In

ELECTRONICS AND COMMUNICATON ENGINEERING

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ROBOT NAVIGATION SYSTEM USING MATLAB GUI

Submitted to Jawaharlal Nehru Technological University, Kakinada

In partial fulfillment of requirement for the degree of

Bachelor of Technology

in

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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Signature of Guide
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Signature of HOD
CH.RAMESH
Associative professor & HOD

External Examiner

LIGHT FOLLOWING ROBOT USING LDR SENSOR

Submitted to Jawaharlal Nehru Technological University, Kakinada

in partial fulfillment of requirement for the degree of

Bachelor of Technology

in

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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SMART GADGET FOR WOMEN SAFETY AND SECURITY SYSTEM

Submitted to Jawaharlal Nehru Technological University, Kakinada

In partial fulfillment of requirement for the degree of

Bachelor of Technology

in

ELECTRONICS AND COMMUNICATON ENGINEERING

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PASSENGERS ALERTING SYSTEM IN TRAINS

Submitted to Jawaharlal Nehru Technological University, Kakinada

In partial fulfilment of requirement for the degree of

Bachelor of Technology

In

ELECTRONICS AND COMMUNICATION ENGINEERING

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INTELLIGENT ALCOHOL DETECTION AND ENGINE LOCKING SYSTEM

Submitted to Jawaharlal Nehru Technological University, Kakinada

in partial fulfillment of requirement for the degree of

Bachelor of Technology

in

ELECTRONICS AND COMMUNICATON ENGINEERING

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REAL TIME INDUSTIAL PROCESS MONITORING AND CONTROLLING USING MOBILE PHONE

Submitted to Jawaharlal Nehru Technological University, Kakinada

In partial fulfillment of requirement for the award of degree

Bachelor of Technology

in

ELECTRONICS AND COMMUNICATON ENGINEERING

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COLLISION TOLERANT AND COLLISION FREE PACKET SCHEDULING FOR UNDERWATER ACOUSTIC LOCALIZATION

A Project Report

Submitted in partial fulfillment of requirements to

Jawaharlal Nehru Technological University, Kakinada

For the award of degree of

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

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ABSTRACT

This article considers the joint problem of packet scheduling and self-localization in an underwater acoustic sensor network with randomly distributed nodes. In terms of packet scheduling, our goal is to minimize the localization time, and to do so we consider two packet transmission schemes, namely a collision-free scheme (CFS), and a collision-tolerant scheme (CTS). The required localization time is formulated for these schemes, and through analytical results and numerical examples their performances are shown to be dependent on the circumstances. When the packet duration is short (as is the case for a localization packet), the operating area is large (above 3 km in at least one dimension), and the average probability of packet-loss is not close to zero, the collision-tolerant scheme is found to require a shorter localization time. At the same time, its implementation complexity is lower than that of the collision-free scheme, because in CTS, the anchors work independently. CTS consumes slightly more energy to make up for packet collisions, but it is shown to provide a better localization accuracy. An iterative Gauss-Newton algorithm is employed by each sensor node for self-localization, and the Cramér Rao lower bound is evaluated as a benchmark.

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SELCSP : A FRAMEWORK TO FACILITATE SELECTION OF CLOUD SERVICE PRIVIDERS

A Project Report

Submitted in partial fulfillment of requirements to

Jawaharlal Nehru Technological University, Kakinada

For the award of degree of

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In

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ABSTRACT

With rapid technological advancements, cloud market place witnessed frequent emergence of new service providers with similar offerings. However, service level agreements (SLAs), which document guaranteed quality of service levels, have not been found to be consistent among providers, even though they offer services with similar functionality. In service outsourcing environments, like cloud, the quality of service levels are of prime importance to customers, as they use third-party cloud services to store and process their clients' data. If loss of data occurs due to an outage, the customer's business gets affected. There for the major challenge for a customer is to select an appropriate service provider to ensure guaranteed service quality. To support customers in reliably identifying ideal service provider, this work proposes a framework, Self SP, which combines trust worthiness and competence to estimate risk of interaction. Trust worthiness is computed from personal experiences gained through direct interactions or from feedbacks related to reputations of vendors. Competence is assessed based on transparency in provider's SLA(service level agrement) guarantees. A case study has been presented to demonstrate the application of our approach. Experimental results validate the practicability of the proposed estimating mechanisms.

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UNIVERSAL NETWORK CODING BASED OPPORTUNISTIC ROUTING FOR UNICAST

A Project Report

Submitted in partial fulfillment of requirements to

Jawaharlal Nehru Technological University, Kakinada

For the award of degree of

BACHELOR OF TECHNOLOGY

In

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ABSTRACT

Network coding-based opportunistic routing has emerged as an elegant way to optimize the capacity of lossy wireless multihop networks by reducing the amount of required feedback messages. Most of the works on network coding-based opportunistic routing in the literature assume that the links are independent. This assumption has been invalidated by the recent empirical studies that showed that the correlation among the links can be arbitrary. In this work, we show that the performance of network coding-based opportunistic routing is greatly impacted by the correlation among the links. We formulate the problem of maximizing the throughput while achieving fairness under arbitrary channel conditions, and we identify the structure of its optimal solution. As is typical in the literature, the optimal solution requires a large amount of immediate feedback messages, which is unrealistic. We propose the idea of performing network coding on the feedback messages and show that if the intermediate node waits until receiving only one feedback message from each next-hop node, the optimal level of network coding redundancy can be computed in a distributed manner. The coded feedback messages require a small amount of overhead, as they can be integrated with the packets. Our approach is also oblivious to losses and correlations among the links, as it optimizes the performance without the explicit knowledge of these two factors.

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Contributory Broadcast Encryption with Efficient Encryption and Short Ciphertexts

Submitted to Jawaharlal Nehru Technological University, Kakinada

In partial fulfillment of requirement for the degree of

Bachelor of Technology

In

COMPUTER SCIENCE AND ENGINEERING

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Traditional broadcast encryption (BE) schemes allow a sender to securely broadcast to any subset of members but require a trusted party to distribute decryption keys. Group key agreement (GKA) protocols enable a group of members to negotiate a common encryption key via open networks so that only the group members can decrypt the ciphertexts encrypted under the shared encryption key, but a sender cannot exclude any particular member from decrypting the ciphertexts. In this paper, we bridge these two notions with a hybrid primitive referred to as contributory broadcast encryption (ConBE). In this new primitive, a group of members negotiate a common public encryption key while each member holds a decryption key.

A sender seeing the public group encryption key can limit the decryption to a subset of members of his choice. Following this model, we propose a ConBE scheme with short ciphertexts. The scheme is proven to be fully collusion-resistant under the decision n-Bilinear Diffie Hellman Exponentiation (BDHE) assumption in the standard model. Of independent interest, we present a new BE scheme that is aggregatable. The aggregatability property is shown to be useful to construct advanced protocols.

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PRIVACY PRESERVING AND TRUTHFUL DETECTION OF PACKET DROPPING ATTACKS IN AD-HOC NETWORKS

A project Report

Submitted in partial fulfillment of requirements to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Kakinada

For the award of degree of

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ABSTRACT

Link error and malicious packet dropping are two sources for packet losses in multi-hop wireless ad hoc network. In this paper, while observing a sequence of packet losses in the network, we are interested in determining whether the losses are caused by link errors only, or by the combined effect of link errors and malicious drop. The conventional algorithms that are based on detecting the packet loss rate cannot achieve satisfactory detection accuracy. To improve the detection accuracy, we propose to exploit the correlations between lost packets. we develop a homomorphic linear authenticator (HLA) based public auditing architecture that allows the detector to verify the truthfulness of the packet loss information reported by nodes. This construction is privacy preserving, collusion proof, and incurs low communication and storage overheads. To reduce the computation overhead of the baseline scheme, a packet-block-based mechanism is also proposed, which allows one to trade detection accuracy for lower computation complexity. Through extensive simulations, we verify that the proposed mechanisms achieve significantly better detection accuracy than conventional methods such as a maximum-likelihood based detection.

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Cloud-Based Multimedia Content Protection System

Submitted to

Jawaharlal Nehru Technological University, Kakinada
In partial fulfillment of requirement for the degree of
Bachelor of Technology

In

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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ABSTRACT

We propose a new design for large-scale multimedia content protection systems. Our design leverages cloud infrastructures to provide cost efficiency, rapid deployment, scalability, and elasticity to accommodate varying workloads. The proposed system can be used to protect different multimedia content types, including 2-D videos, 3-D videos, images, audio clips, songs, and music clips. The system can be deployed on private and/or public clouds. Our system has two novel components: (i) method to create signatures of 3-D videos, and (ii) distributed matching engine for multimedia objects. The signature method creates robust and representative signatures of 3-D videos that capture the depth signals in these videos and it is computationally efficient to compute and compare as well as it requires small storage. The distributed matching engine achieves high scalability and it is designed to support different multimedia objects. We implemented the proposed system and deployed it on two clouds: Amazon cloud and our private cloud. Our experiments with more than 11,000 3-D videos and 1 million images show the high accuracy and scalability of the proposed system. In addition, we compared our system to the protection system used by YouTube and our results show that the YouTube protection system fails to detect most copies of 3-D videos, while our system detects more than 98% of them. This comparison shows the need for the proposed 3-D signature method, since the state-of-the-art commercial system was not able to handle 3-D videos.

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DETECTION AND RECTIFICATION OF DISTORTED FINGERPRINTS

Submitted to

Jawaharlal Nehru Technological University, Kakinada

In partial fulfillment of requirement for the degree of

Bachelor of Technology

In

COMPUTER SCIENCE AND ENGINEERING

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BEHAVIOR RULE SPECIFICATION-BASED INTRUSION DETECTION FOR SAFETY CRITICAL MEDICAL CYBER PHYSICAL SYSTEMS

Submitted to

Jawaharlal Nehru Technological University, Kakinada
In partial fulfillment of requirement for the degree of
Bachelor of Technology

In

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ABSTRACT

We propose and analyze a behavior-rule specification-based technique for intrusion detection of medical devices embedded in a medical cyber physical system (MCPS) in which the patient's safety is of the utmost importance. We propose a methodology to transform behavior rules to a state machine, so that a device that is being monitored for its behavior can easily be checked against the transformed state machine for deviation from its behavior specification. Using vital sign monitor medical devices as an example, we demonstrate that our intrusion detection technique can effectively trade false positives off for a high detection probability to cope with more sophisticated and hidden attackers to support ultra safe and secure MCPS applications. Moreover, through a comparative analysis, we demonstrate that our behavior-rule specification-based IDS technique outperforms two existing anomaly-based techniques for detecting abnormal patient behaviors in pervasive healthcare applications.

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DISCOVERY OF FRAUD RANKING FOR MOBILE APPS

A project Report

Submitted in partial fulfillment of requirements to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Kakinada

For the award of degree of

BACHELOR OF TECHNOLOGY

In

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ABSTRACT

Ranking fraud in the mobile App market refers to fraudulent or deceptive activities which have a purpose of bumping up the Apps in the popularity list. Indeed, it becomes more and more frequent for App developers to use shady means, such as inflating their Apps sales or posting phony App ratings, to commit ranking fraud. While the importance of preventing ranking fraud has been widely recognized, there is limited understanding and research in this area. To this end, in this project, we provide a holistic view of ranking fraud and propose a ranking fraud detection system for mobile Apps. Specifically, we first propose to accurately locate the ranking fraud by mining the active periods, namely leading sessions, of mobile Apps. Such leading sessions can be leveraged for detecting the local anomaly instead of global anomaly of App rankings. Furthermore, we investigate three types of evidences, i.e., ranking based evidences, rating based evidences and review based evidences, by modeling Apps' ranking, rating and review behaviors through statistical hypotheses tests. In addition, we propose an optimization based aggregation method to integrate all the evidences for fraud detection. Finally, we evaluate the proposed system with real-world App data collected from the iOS App Store for a long time period. In the experiments, we validate the effectiveness of the proposed system, and show the scalability of the detection algorithm as well as some regularity of ranking fraud activities.

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MOBILE DATA GATHERING WITH LOAD BALANCED CLUSTERING AND DUAL DATA UPLOADING IN WIRELESS SENSOR NETWORKS

A project Report

Submitted in partial fulfillment of requirements to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Kakinada

For the award of degree of

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This is to certify that project Report entitled **"MOBILE DATA GATHEING WITH LOAD BALANCED CLUSTRING AND DUAL DATA UPLOADING IN WIRELESS SENSOR NETWORKS"** is a bonafide Record of work carried out by **N.RATHNA TEJA, K.SWATHI, K.JYOTHI, I.PRIYANKA** under my guidance and supervision, in partial fulfillment of the requirements for the award of the degree of **Bachelor of Technology** in **Computer science and Engineering** during the year 2016-2017.

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ABSTRACT

In this paper, a three-layer framework is proposed for mobile data collection in wireless sensor networks, which includes the sensor layer, cluster head layer, and mobile collector (called SenCar) layer. The framework employs distributed load balanced clustering and dual data uploading, which is referred to as LBC-DDU. The objective is to achieve good scalability, long network lifetime and low data collection latency. At the sensor layer, a distributed load balanced clustering (LBC) algorithm is proposed for sensors to self-organize themselves into clusters. In contrast to existing clustering methods, our scheme generates multiple cluster heads in each cluster to balance the work load and facilitate dual data uploading. At the cluster head layer, the inter-cluster transmission range is carefully chosen to guarantee the connectivity among the clusters. Multiple cluster heads within a cluster cooperate with each other to perform energy-saving inter-cluster communications. Through inter-cluster transmissions, cluster head information is forwarded to SenCar for its moving trajectory planning. At the mobile collector layer, SenCar is equipped with two antennas, which enables two cluster heads to simultaneously upload data to SenCar in each time by utilizing multi-user multiple-input and multiple-output (MU-MIMO) technique. The trajectory planning for SenCar is optimized to fully utilize dual data uploading capability by properly selecting polling points in each cluster. By visiting each selected polling point, SenCar can efficiently gather data from cluster heads and transport the data to the static data sink. Extensive simulations are conducted to evaluate the effectiveness of the proposed LBC-DDU scheme. .

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