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Invention Title	SECURE PRINTING OF THE DOCUMENT ON SHARED RESOURCES
Publication Number	11/2021
Publication Date	12/03/2021
Publication Type	INA
Application Number	202111009357
Application Filing Date	05/03/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04L0029060000, G06F0021620000, G06F0021600000, G06F0003120000, H04N0001440000

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Abstract:

In today's scenario, most of organization use document processing devices like printers, scanner and fax machines etc., on network. Many confidential and important data and documents are handling by these devices. This may cause document theft or snooping. The miss use and loss of sensitive data may damage the reputation of organization or any employee. Such kind of loss may lead to crime or fraud also. That's why need of Security should be apply on such equipments. Printing security prevent user from document theft. Most of printer manufacturing companies provide security solutions but 90% people are not aware about security solutions. This unawareness causes the leakage of confidential data. This research highlights the better printing security solutions and makes people aware about that solution. Through these security solution, printing of Secure data will be improve and protect sensitive data. In this security solution, security will be done through password protection. When user will print document, User will get option for security of data. If user chooses security of data then user has to enter user name with password. At the printer side, job will be held on printer till the user unlocks the document through password. With this technique user will not only be aware about security solutions but also user will secure data.

Complete Specification

This invention relates to a method for printing document securely on shared resources. It has following advantages:

- ٗ Increase information security
- ٗ Reduce uses of false document
- ٗ Improve the confidentiality of the document
- ٗ Increase integrity of the document
- ٗ Decrease recruitment scam
- ٗ Decrease bank fraud
- ٗ Improve economic growth of country

BACKGROUND OF THE INVENTION:

Existing system is that whenever users printing the document, it prints the document without permission from printer side. While printer is costly and that is why it is used as sharing basis in office as well as cybercafé. There is too much time to still the document and makes its copies without permission. So, it is very difficult to provide the information security using CIA model. Due to this reason number of scams increasing day by day in recruitment system, banking system.

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Invention Title	IOT BASED PROCESS CONTROL FOR COPPER METAL COATING ON STEEL
Publication Number	45/2020
Publication Date	06/11/2020
Publication Type	INA
Application Number	202041046673
Application Filing Date	26/10/2020
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04L 29/08

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Abstract

In current scenario, every industry needs advanced development process through automation. The industrial Internet of Things (IoT) application of concept has been introduced for smart factory solution. The present work describes the web of process control based on the materials for copper plating on steel. Metal powder coating is the finishing process and applied to copper powders in a dry and free flow condition on a cleaning steel surface. The metal powder coating process is automated by IoT. The microcontroller is used to control the automation of the coating process.

Complete Specification

Claims:1) A novel system for automated the copper coating on stainless steel through internet of things.
 2) Simulation results based on the IoT sensor offers the different stages of coatings.
 3) The copper coating process parameters are optimized through Taguchi method.
 4) The optimal coating thickness is arrived at temperature of 800°C, coating duration of 12 minutes and liquid penetration of 20mm.
 5) The coating duration is provided 63.48 % of effect on coating thickness.
 .,Description:FORM 2

THE PATENTS ACT, 1970
 [39 of 1970]
 &
 THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

(Section 10 : Rule 13.)

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Invention Title	INTELLIGENT TRACKING SYSTEM FOR VEHICLES
Publication Number	44/2020
Publication Date	30/10/2020
Publication Type	INA
Application Number	202041045939
Application Filing Date	21/10/2020
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06K 7/10

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Abstract:

Millions of people need to be moved from home to various places like hospitals, office, work place etc and vice versa every day. For peoples, obtaining in time transport for their people is a critical issue. Many people find themselves locked in a vehicle stop for a long time for particular vehicle, miss the vehicle or wait for particular vehicle for long time. This research tested the applicability of radio frequency identification (RFID) technology in tracking and monitoring people during their trip to and from home on vehicles. ones time is taken as key element and developed in this research utilized the passive RFID tracking technology due to its efficient tracking capabilities, low cost, and easy maintenance. To explore the technical feasibility of the proposed system, a set of tests were performed in the lab and with the public. These experiments showed that the RFID tags were effective and stable enough to be used for successfully tracking and monitoring people using the vehicle. When asked to give their feedback of the solution through a questionnaire, more than 95% of the people see that such a solution will take their anxiety and worry away and will provide them a tool to track their vehicles during commuting to and from their places.

Complete Specification

Claims:1) A novel Intelligent Tracking System for Vehicle Monitoring is presented. In addition, the system includes a web - based reporting that makes it fast and easy access to get accurate information, such as people report that provides a data and time for all the activities of loading and unloading by people, and vehicle report that provides all people ridership data by vehicle. In this when the vehicle crosses, previous vehicle stop the transmitter in another vehicle stop will sent the information of the vehicle so that passenger will know that the vehicle will arrive soon.

2) An Intelligent Tracking and Monitoring System for Vehicle Applicants as claimed in Claim 1 is designed to operate in different modes. For the different normal modes of the module, a complete tracking assignment is performed as provided in the descriptional drawings.

3) The system is capable to notify the vehicle via SMS when the vehicle enters or leaves the vehicle stop, enabling transport authorities, fleet owners and passengers to keep track of the vehicle online, helping transporters and authorities to plan and manage the vehicle routes better, saving money and ensuring smooth hand quick rides to the different destinations.

4) RFID tracking technology is enabled for monitoring and tracking the vehicle during their trip and their functions were confirmed with various field conditions .

Description:INTRODUCTION: -
Public transport has become a part of all lives. Most people reach from homes to workplace or school using public transportation. People can lose time in transportation because of unnecessary waiting. Also, people have the eagerness to know where the vehicle is now and how long time it takes vehicle to reach vehicle stop. The services provided to passengers by transport systems are very important. The proposed design uses RFID card in the first module wherein if a vehicle enters the vehicle stop, driver wants to use the RFID card if a RFID card must be stored at the vehicle stop. After this process, receiver sends signal to microcontroller which contains the details of the

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Invention Title	PERFORMANCE EVALUATION OF CRYPTOGRAPHIC ALGORITHM USING IOT BASED HARDWARE PLATFORM
Publication Number	48/2020
Publication Date	27/11/2020
Publication Type	INA
Application Number	202011049571
Application Filing Date	12/11/2020
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04W 84/18 H04W 4/70 G06F 9/455

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Abstract:

The deployment of security services over Wireless Sensor Networks (WSN) and IoT devices brings significant processing and energy consumption overheads. These overheads are mainly determined by algorithmic efficiency, quality of implementation, and operating system. Benchmarks of symmetric primitives exist in the literature for WSN platforms but they are mostly focused on single platforms or single operating systems. Moreover, they are not up to date with respect to implementations and/or operating systems versions which had significant progress. Herein, we provide time and energy benchmarks of reference implementations for different platforms and operating systems and analyze their impact. Moreover, we not only give the first benchmark results of symmetric cryptography for the Intel Edison IoT platform but also describe a methodology of how to measure energy consumption on that platform.

Complete Specification

The progressive growth of IoT applications has been broadening the spectrum of transmitted data, bringing an increasing demand of security services like data confidentiality, integrity, and source authentication. However, the attempt to employ security mechanisms that are typical of conventional networks is likely to cause undesirable effects due to hardware-related resource limitations. The most relevant overheads relate to energy consumption and/or increase of communication delays. Another concern is the relatively higher memory consumption that might be aggravated by the device's available memory and the amount of applications running on it. Therefore, one of the main challenges for deploying security mechanisms over WSN and IoT is to minimize the conflict between resource consumption and the desired security

BACKGROUND OF INVENTION: -

In this work, we perform an extensive experimental evaluation of reference implementations of many cryptographic primitives for different security services over real sensor platforms. We also evaluate the influence of the most recent versions of two popular operating systems for WSN, TinyOS 2.1.2 and ContikiOS 3.0.

OBJECTIVE OF THE INVENTION: -

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Australian Government
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SUMMARY

Total Payable (AU): **\$180.00**

Applicant or Agent Selection Applicants Main Contact Invention Details Related Applications Specification Entitlement Additional Requests **Summary**

Fees payable

Patents New Application (Innovation)	\$180.00
Total payable (AU)	\$180.00

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Invention Details

Invention title

A method to measure the air pollution impact on terrestrial and natural vegetation in urban locations

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Related Applications

Specification

Description	Description.pdf
Claims	CLAIMS.pdf
Abstract	ABSTRACT.pdf
Sequence listing	Not provided
Drawings	Drawings.pdf

Physical media to be provided? No

Entitlement

Applicants on this application are inventors.

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