

# Optimization of Default Credit Scheduler of Xen Virtualization Technology

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## ABSTRACT

Server Virtualization plays a vital role to reduce hardware cost, as well as it enhances scalability and availability of resources, this technology become the foundation for cloud computing. Server virtualization, implemented by sharing available resources efficiently, hence resource sharing strategies plays a crucial role in performance management in Virtualization. In This paper, we have concentrated on processor sharing policy applied in open source Xen virtualization that is CPU (Central Processing Unit) scheduling algorithms.

CPU shared among multiple Virtual machines with the help of Scheduler implemented in it. We have analyzed Xen's CPU scheduling algorithm and its performance, and we have suggested optimization in this algorithm in the form of reduction of waiting time and turnaround time.

Our findings are, based upon existing credit scheduler of Xen 3.0 (and onward). We have verified our results through demonstrative examples that are representing existing algorithm and its enhancement. To measure waiting time and turnaround time of VCPU. We implemented algorithms in Java, finally it proves that waiting time of VMs while allocating PCPUs to VCPUs can be reduced;

**Keywords:** Virtualization, Credit Scheduler, VMM, VM, PCPU, VCPU Waiting Time, Turnaround Time.

# Food as an Attraction for Tourism: A Study of Patiala City, Punjab

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## ABSTRACT

Tourism is travel for recreational exposure, leisure, or business purposes. Tourism does not only mean travelling to a particular destination but also includes all activities and experiences undertaken during the stay. It includes day visits and excursions, transportation and accommodation, eating and drinking. From an economic point of view, food is a physiological necessity that's why we can easily argue that nearly 100% of tourists spend money for food where do they go for holiday or trip (Shenoy, 2005). According to Hjalager (2003), the new tourists seek food and beverage combinations and eating experiences that foster learning. For these tourists, food in a destination does not only satisfy hunger but, important for them, such consumption means gaining in-depth knowledge about the local cuisine and of the destination's culture. In Punjab, food is a gift of Gods and it is treated with respect. The popularity of Punjabi Food is growing leaps and bounds because of the rising number of Punjabi immigrants. This paper highlights the potential of food tourism in Patiala. A mixed approach of descriptive and exploratory research in which convenient-cum-judgment quota sampling has been used to collect the data.

**Keywords:** Food, Tourist, Patiala

# **Protection and Privacy of Sensitive Data: Challenges and Opportunities**

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## **ABSTRACT**

Providing security to data is the biggest challenge in area of data management. Many organizations are using many tools to provide safety to their production data, but non-production data like development environment, test environment and training environment are still do not have proper security measures. Defending customer's or employees' sensitive data is not only the responsibility of the organization; but it is also requirement of government standards. This paper will provide concept of data masking, why it is used in organization, principles used in data masking, types of masking, masking techniques, constraints, limitations of existing techniques, available solutions and data masking algorithms.

**Keywords:** Data Privacy, Data masking, Masking Principles, Legal jurisdiction regulations

# **Analysis of possible attacks on Shimin Wei(2004) and Swati Verma's Digital Signature Schemes.**

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## **ABSTRACT**

A digital signature is a cryptographic method for verifying the identity of an individual. It can be a process, computer system, or any other entity, in much the same way as a handwritten signature verifies the identity of a person. Digital signatures use the properties of public-key cryptography to produce pieces of information that verify the origin of the data. Several digital schemes have been proposed as on date based on factorization, discrete logarithm and elliptical curve. However, the Swati Verma and Birendra Kumar Sharma[8] digital signature scheme is based on Shimin Wei[7]digital signature scheme which combines factorization and discrete logarithm together. It makes difficult for solving two hard problems from the hackers point of view. There is possibility to bypass this hard problem. This paper presents the analysis of same, with the help of different tools and further analyzes them from different attacks perceptions.

**Keywords :**Cryptography, Integer Factoring, Discrete Logarithm, Digital Signature.

# **Study of Emotional Wellbeing among Students**

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## **ABSTRACT**

In the today's current aggressive world, the very important buzz word is ready for action or in better words - competition. The human being is very anxious, fretful or keen towards his or her goal. With this inclination in the mind, the emotional state of the person is at very stake. The emotional stability of the person is not objective, and minimally stable. It is basically subjected or prone to many uncertainties. The mentality of the person flows down in line with the unusual and cannot concentrate on the desired feature. On the other side, if the person has the strong emotional stability, he can resist on the undesired track and be the master for himself. So, the emotional wellbeing of the person plays a very important role in struggling with the odd pressures of life. The students of today are the future of tomorrow; therefore the emotional wellbeing of the students is of great momentum. The life of students is very much strained due to various stressors, for example the peer pressure, the unlimited and unrealistic expectations, the untaught assignments and many more. These all stressors affect the emotional state of the students and subsequently further his prospective career too. Thus the researcher has taken an initiative to study the emotional stability of the students.

**Keywords:** Extracurricular activities, Emotional