



Journal of Network and Computer Applications

[Guide for Authors](#)

[Submit Your Paper](#)

[Track Your Paper](#)

[Order Journal](#)

[View Articles](#)

[Videos – Audioslides](#)

[Awards](#)

[Journal Insights](#)

[Recent Open Access Articles](#)

[Open Access Options](#)

[News](#)

[Most Downloaded Articles](#)

[Call for Papers](#)

[Most Cited Articles](#)

[Special Issues](#)

[Recent Articles](#)

Stay up-to-date

Register your interests and receive email alerts tailored to your needs

[Click here to sign up](#)

Follow us

Most Downloaded Journal of Network and Computer Applications Articles

The most downloaded articles from [ScienceDirect](#) in the last 90 days.

1. [A survey on security issues in service delivery models of cloud computing](#)

January 2011

S. Subashini | V. Kavitha

Cloud computing is a way to increase the capacity or add capabilities dynamically without investing in new infrastructure, training new personnel, or licensing new software. It extends Information Technology's...



2. [Cloud resource management: A survey on forecasting and profiling models](#)

January 2015

Rafael Weingärtner | Gabriel Beims Bräscher | Carlos Becker Westphall

With the rise of cloud computing, a huge complexity growth of the structure that is the base of the Cloud happens. Thus, to effectively manage applications and resources it is crucial the use of models...



3. [A survey on vehicular cloud computing](#)

April 2014

Md Whaiduzzaman | Mehdi Sookhak | Abdullah Gani | Rajkumar Buyya

Vehicular networking has become a significant research area due to its specific features and applications such as standardization, efficient traffic management, road safety and infotainment. Vehicles...



4. [A survey of intrusion detection techniques in Cloud](#)

January 2013

Chirag Modi | Dhiren Patel | Bhavesh Borisaniya | Hiren Patel | Avi Patel | Muttukrishnan Rajarajan

In this paper, we survey different intrusions affecting availability, confidentiality and integrity of Cloud resources and services. Proposals incorporating Intrusion Detection Systems (IDS) and Intrusion...



5. [Secure virtualization for cloud computing](#)

July 2011

Flavio Lombardi | Roberto Di Pietro

Cloud computing adoption and diffusion are threatened by unresolved security issues that affect both the cloud provider and the cloud user. In this paper, we show how virtualization can increase the...



6. [Resource management for Infrastructure as a Service \(IaaS\) in cloud computing: A survey](#)

May 2014

Sunilkumar S. Manvi | Gopal Krishna Shyam

The cloud phenomenon is quickly becoming an important service in Internet computing. Infrastructure as a Service (IaaS) in cloud computing is one of the most significant and fastest growing field. In...



7. [Intrusion detection system: A comprehensive review](#)

January 2013

Hung-Jen Liao | Chun-Hung Richard Lin | Ying-Chih Lin | Kuang-Yuan Tung

With the increasing amount of network throughput and security threat, the study of intrusion detection systems (IDSs) has received a lot of attention throughout the computer science field. Current IDSs...



8. An intrusion detection and prevention system in cloud computing: A systematic review

January 2013

Ahmed Patel | Mona Taghavi | Kaveh Bakhtiyari | Joaquim Celestino Júnior

The distributed and open structure of cloud computing and services becomes an attractive target for potential cyber-attacks by intruders. The traditional Intrusion Detection and Prevention Systems (IDPS)...



9. Mobile recommender systems in tourism

March 2014

Damianos Gavalas | Charalampos Konstantopoulos | Konstantinos Mastakas | Grammati Pantziou

Recommender Systems (RSs) have been extensively utilized as a means of reducing the information overload and offering travel recommendations to tourists. The emerging mobile RSs are tailored to mobile...



10. Predicting the content dissemination trends by repost behavior modeling in mobile social networks

June 2014

Xinjiang Lu | Zhiwen Yu | Bin Guo | Xingshe Zhou

Internet of Things (IoT) invasions a future in which digital and physical entities (e.g., mobile devices, wearable devices) can be linked, by means of appropriate information and communication technologies,...



11. A survey on trust management for Internet of Things

June 2014

Zheng Yan | Peng Zhang | Athanasios V. Vasilakos

Internet of Things (IoT) is going to create a world where physical objects are seamlessly integrated into information networks in order to provide advanced and intelligent services for human-beings....



12. A comprehensive view of Hadoop research—A systematic literature review

November 2014

Ivanilton Polato | Reginaldo Ré | Alfredo Goldman | Fabio Kon

Context: In recent years, the valuable knowledge that can be retrieved from petabyte scale datasets – known as Big Data – led to the development of solutions to process information based on parallel...



13. Clustering in sensor networks: A literature survey

November 2014

M. Mehdi Afsar | Mohammad-H. Tayarani-N

Wireless sensor networks (WSNs) have recently gained the attention of researchers in many challenging aspects. The most important challenge in these networks is energy conservation. One of the most...



14. A comprehensive survey on vehicular Ad Hoc network

January 2014

Saif Al-Sultan | Moath M. Al-Doori | Ali H. Al-Bayatti | Hussien Zedan

Vehicular ad hoc networks (VANETs) are classified as an application of mobile ad hoc network (MANET) that has the potential in improving road safety and in providing travellers comfort. Recently VANETs...



15. Vehicular communication ad hoc routing protocols: A survey

April 2014

Baraa T. Sharef | Raed A. Alsaqour | Mahamod Ismail

Vehicular communications are now the dominant mode of transferring information between automobiles. One of the most promising applications of vehicular communications is the vehicular ad hoc network...



16. Application partitioning algorithms in mobile cloud computing:

Taxonomy, review and future directions

February 2015

Jieyao Liu | Ejaz Ahmed | Muhammad Shiraz | Abdullah Gani | Rajkumar Buyya | Ahsan Qureshi

Mobile cloud computing (MCC) enables the development of computational intensive mobile applications by leveraging the application processing services of computational clouds. Contemporary distributed...



17. A combined approach to ensure data security in cloud computing

November 2012

Sandeep K. Sood

Cloud computing is a forthcoming revolution in information technology (IT) industry because of its performance, accessibility, low cost and many other luxuries. It is an approach to maximize the capacity...



18. A Study on the Critical Analysis of Computational Offloading Frameworks for Mobile Cloud Computing

January 2015

Muhammad Shiraz | Mehdi Sookhak | Abdullah Gani | Syed Adeel Ali Shah

Despite substantial technological advancements in recent years, Smart Mobile Devices (SMDs) are still low-potential computing devices. Therefore, Mobile Cloud Computing (MCC) can deploy computational...



19. A survey on network coding: From traditional wireless networks to emerging cognitive radio networks

November 2014

Muhammad Zubair Farooqi | Salma Malik Tabassum | Mubashir Husain Rehmani | Yasir Saleem

Network coding is a technique in which transmitted data is encoded and decoded to enhance network throughput, reduce delays and construct a more robust network. Network coding has been used in many...



20. Cloud service selection: State-of-the-art and future research directions

October 2014

Le Sun | Hai Dong | Farookh Khadeer Hussain | Omar Khadeer Hussain | Elizabeth Chang

Cloud technology connects a network of virtualized computers that are dynamically provisioned as computing resources, based on negotiated agreements between service providers and users. It delivers...



21. A review on remote data auditing in single cloud server: Taxonomy and open issues

August 2014

Mehdi Sookhak | Hamid Talebian | Ejaz Ahmed | Abdullah Gani | Muhammad Khurram Khan

Cloud computing has emerged as a computational paradigm and an alternative to the conventional computing with the aim of providing reliable, resilient infrastructure, and with high quality of services...



22. An overview of the Internet of Things for people with disabilities

March 2012

Mari Carmen Domingo

Currently, over a billion people including children (or about 15% of the world's population) are estimated to be living with disability. The lack of support services can make handicapped people overly...



23. Semantic web services: Standards, applications, challenges and solutions

September 2014

Hassina Nacer | Djamil Aissani

To share Knowledge coming from disparate and heterogeneous environments, we propose the use of semantic Web services to provide a common Knowledge format and meaning. Semantic Web services would

require...



[24. A survey of routing protocols based on link-stability in mobile ad hoc networks](#)

January 2015

Ali Moussaoui | Abdallah Boukeream

Mobile ad hoc networks (MANET) are a subclass of wireless and mobile networks. All nodes in MANET are mobile and they communicate with each other without fixed infrastructures. The QoS (Quality of Services)...



[25. Traffic congestion detection in large-scale scenarios using vehicle-to-vehicle communications](#)

September 2013

R. Bauza | J. Gozalvez

Cooperative vehicular systems are currently being investigated to design innovative ITS (Intelligent Transportation Systems) solutions for road traffic management and safety. Through the wireless exchange...

