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FUND PROJECT

- High Speed Signal Transmission System based on COM..... (1)**
Yuan Jiadong, Yin Xinghui (College of Computer and Information, Hohai University, Nanjing 211100, China)
Abstract: With the high-speed development of modern communication, the effects of solar activity on the earth communication system also have received widespread attention. The signal of solar sharp activity has a very high frequency and short duration. The signal is not easy to be observed. Therefore this paper proposes a high-speed transmission mode based on COM. And some experiments have made to prove the feasibility of this method.
Key words: Solar Radio Radiation; COM; MSP430
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Pu Fang¹, Sheng Rongchun², Shen Yu³ (1.Informationization Office, Donghua University, Shanghai 201620,China; 2.Department of Computer Science and Technology, Donghua University, Shanghai 201620, China; 3. Financial Department, Donghua University, Shanghai 201620, China)
Abstract: In order to solve the problems of data security and mobile business in the campus applications using a great number of unstructured data, the characteristics and typical applications of the traditional and object storage ways are introduced. And the system architecture of the campus cloud storage platform based on ATMOS, one of Object Storages is proposed. The processes of the cloud data reading and writing are analyzed. The practice indicates that the cloud storage platform based on ATMOS can guarantee remote disaster recovery and real-time access for the unstructured data efficiently. So the platform improves the data security, and it also guarantees the reliability of the mobile office.
Key words: Unstructured Data; Object-based Storage; Cloud Storage
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Liu Dan¹, Song Chuanming² (1.College of Computer and Information Technology, Liaoning Normal University, Dalian 116029, China; 2.State Key Laboratory for Novel Software Technology, Nanjing University, Nanjing 210093, China)
Abstract: With the appearances of digital TV and online meeting, more and more image information needs to transmit on the net. The improvement of video coding depends on how to reduce the use of motion compensation prediction residuals (MCPR), which also means the MCPR image should have the ability of progressive transmission, multi-quality services and image database browsing, etc.. In this paper, a double-stage quantization method is proposed combining with the statistical property of MPCR image. Then a scalable coding method for frame difference image quality based on bit-plane technique is proposed. The method constructs different bit-planes according to the target bit rates so as to achieve the scalable decoding for frame difference image quality. Simulation results prove that the compression quality of the method is superior to the SPITH algorithm, especially at the very low bit rates.
Key words: Prediction Error Image; Statistical Property; Scalable Coding; Frame Difference Image; Lifting Scheme Wavelet
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Dan Rong (College of Mathematics and Information Science Weinan Normal University, Weinan 714000, China)
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Key words: Intelligent Power Network; OTN; Long Distance Transmission; Bandwidth
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Wang Xuemei¹, Li Xiaofeng² (1.Department of Computer Science and Technology, Heilongjiang Technology and Business College, Harbin 150025, China; 2. Department of Information and Science, Heilongjiang International University, Harbin 150025, China)
Abstract: In order to control the traffic flow in the intersection to ensure smooth traffic flow of traffic network, it does simulation and research for the problem of vehicle queue length and green time, signal cycle and the influence of yellow light. This paper uses genetic algorithm to optimize traffic flow control to find optimal solution in the process of self-tuning. Firstly, genetic algorithm regards the current queue length as input, and then outputs the optimization green time of crossroads. Finally, the result of genetic algorithm is further improved with introduction of the coming traffic flow during red time of each phase. Experiments show that the application of genetic algorithm in the intersection can respond quickly to the problems such as varying vehicle queue, green time, signal cycle and so on. The simulations' results show that the genetic algorithm is a successful method used in the traffic flow control.
Key words: Traffic Control System; Traffic Flow; Genetic Algorithm; Intersection
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Zhang Linhang, Shang Xiaohu, Zhao Meicong, Liu Yang (College of Instrument Science and Electrical Engineering, Jilin University, Changchun 130021, China)
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Key words: DDS; FPGA; PLL
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Li Nan (Department of Mathematics and Computer Application, Shangluo University, Shangluo726000, China)
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Key words: C-language; Teaching-mode; Computer Common Course; Local Application-oriented College
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Liang Ying (Xi'an railway vocational & technical institute, Xi'an 710014, China)
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Key words: Urban Rail Control; Computer Technology; Skills Docking
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Zhao Jianhua, Zhang Lin (School of mathematics and computer application, Shangluo University, Shangluo 726000, China)
Abstract: In order to effectively improve the abilities of practice and local service of computer professional students, a mode of production-study-research cooperation is proposed in the background of the transformation and development to colleges of application and technology. Through down-to-earth, it finds a

breakthrough in computer professional services for local development; through the foundation, to build a "double" teachers team with theoretical knowledge, practical ability and the industry background. Then it establishes a teacher team of double-certificated type with solid theoretical knowledge, good practical ability and industry background by fortifying the foundations. After that, it strives for excellence and conducts in-depth cooperation so as to cultivate applied talents of high quality and enterprise counterparts. The program has a certain reference value for the local undergraduate colleges in the transformation and development.

Key words: Transformation and Development; Applied Technology College and University; Production-study-research Cooperation; Service Area

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Zhang Minghuan^{1,2}, Chen Ying^{1,3}, Wang Cheng¹, Shen Ying⁴, Ma Junshan² (1.Information Science and Technology, Shanghai Sanda University, Shanghai 201209, China; 2.School of Optical Electrical and Computer Engineering, University of Shanghai for Science and Technology, Shanghai 200093, China; 3.School of Medicine, Shanghai JiaoTong University, Shanghai 200025, China; 4.XinHua Hospital Affiliated to School of Medicine, Shanghai Jiao Tong University, Shanghai 200092, China)

Abstract: 'Surveillance, epidemiology and result database(SEER)' is a program developed by American National Cancer Institute. It is one of the most representative databases registered in the North America, which has collected a great amount of data in respect of evidence-based medicine, and provided practice clinicians in field of clinical medicine evidence with systematic evidence support and valuable first-hand materials. This paper firstly introduces in general about SEER, the way of access and the database structure. Secondly, detailed description is given about the SEER data dictionary, and interpretation made of the main statistical SEER analysis reports. Then, cases have been collected, which had been conducted on basis of SEER data in recent years, home and abroad. In the last, discussion and expectation on application of SEER are carried out.

Key words: SEER; Large Database of Cancer Registration; Data Dictionary; Statistical Analysis Report; Clinical Applications

Researching of Application-oriented Teaching Method of Network Engineering..... (29)

Du Hongle, Zhang Yan (School of mathematics and computer application, Shangluo University, Shangluo 726000, China)

Abstract: For application-oriented positioning of my school, combined with the talent demand and deep learning, it carry out application-oriented, project-driven and situation-introduced teaching reform on the course of 'network engineering'. Under this teaching mode, the purpose of curriculum design and unit design is to build capacity and develop the professional quality. The five-step teaching method of deep learning, containing creation of scenarios, enlightens self-exploration, cooperation and exchange, summary and improvement, is introduced into the unit design and teaching. Assessment methods are diversification according to combining process and results, theory and practice. It can cultivate students' capacity of knowledge acquisition, application of knowledge, innovative ability and professional quality. It achieves the better teaching effect in the course of computer network experiment.

Key words: Deep Learning; Network Engineering; Teaching Reform

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Yang Xiaofeng (ShangLuo University, Shangluo 726000, China)

Abstract: Through introducing BLOG/BLOG group of college students in the process of the internship, it combines the education characteristics with the function of BLOG, and analyses the problems existing in the current education practice. Then it builds up a rethinking-sharing practice guidance mode based on BLOG/BLOG group, and researches this mode to solve the problems of poor communication between teachers and students and low capacity for rethinking of students in the education internship. It provides some references for the management and improvement of the college education practice.

Key words: BLOG; Education Practice; Guidance Mode

RESEARCH AND DESIGN

Design of Cloud Platform with Ring and Star Style Network Oriented Load Balancing..... (35)

Yang Fan^{1,2} (1.School of Computer Science, Fudan University, Shanghai 201203, China; 2.Shanghai Key Laboratory of Data Science, Fudan University, Shanghai 201203, China)

Abstract: The cloud platform has the problems such as the waste of hardware resource caused by the update of servers, high cost backup using several high-performance servers. Based on the use of load balancing and cluster technology, this paper proposes a reliable cloud platform, which has high performance and low cost. It uses a combination of ring and star network structure to make the form of computing resource diverse, and uses multiple data backup to improve performance and security. Through the load balancing technology, it solves the network bottleneck problem so that the customer's visit will not focus on a certain point. It can reduce the bottleneck in the communication process. Finally, through the reliability and performance analysis, it is proved that the performance of this design is better, and the platform can be maintained for a long time.

Key words: Ring and Star Network; Horizontal and Vertical Segmentation in Database; Load Balancing

Smart Homes Controller base on Power Line Communication..... (38)

Hu Dunli, Cheng Kaixin (North China University of Technology, Beijing 100144, China)

Abstract: This paper introduces the composition and working principle of smart homes controller based on PLC communication technology. The core processor is the S3C2440 with ARM9 core with UC/OS-II real time operating system embedded. It builds up LonWorks network based on LonWorks bus technology to realize the information interaction, and selects PL3120 power line smart transceiver as the Communication module. The communication medium is the power lines. This paper proposes the controller with composition of hardware and design principle of software.

Key words: PLC; Embedded System; LonWorks Bus

Segmentation Algorithm of Remote Sensing Forest Vegetation Based on Combination of Spectral and Structure Element of Forest Texture..... (41)

Jiao Lintao, Yu Ning (College of Computer and Information Technology, Liaoning Normal University, Dalian 116029, China)

Abstract: To utilize multiple features for segmentation of forest vegetation, a combination method of spectral and other textural features to build SEFT has come up. This method could detect the typical area blue noise characteristics of forest vegetation to calculate its scale and gray distribution. It uses NDVI to calculate the vegetation-covered ratio. Then it constructs the SEFT of various scales by combining grey level, color and other texture features of the area. Match the structural motif with image. Finally use the weighting of vegetation-covered ratio and matching coefficient to obtain the segmentation results. The experimental result indicates that algorithm in the paper could improve the accuracy of vegetation field with a preferable segmentation effect.

Key words: Structure Element of Forest Texture; Blue Noise; Multi-scale; Vegetation Index; Segmentation

Research and Implementation of PBL Teaching System of Medical Cases Based on ASP.NET..... (44)

Wang Weiquan¹, Lu pang², Cao Junkuo³, Zhang Xueping³ (1.Network Administration Center, Hainan Medical University, Haikou 571199, China; 2.School of Computer Science and Engineering, South China University of Technology, Guangzhou 510006, China; 3.School of Information Science and Technology, Hainan Normal University, Haikou 571100, China)

Abstract: According to PBL teaching mode, it adopts the extended RBAC model to design a model of PBL teaching system which is problem-based, student-centered, teacher-oriented and task-driven. This paper describes PBL teaching mode briefly first. Then do demand analysis and UML modeling to the medical case teaching, and detail the main functional modules of system. At last, it explores the system architecture model and key technology combining with ASP.NET technology.

Key words: PBL; ASP.NET; Case Training; Extended RBAC Model; Cache Technology

Research and Practice of Secondary Vocational School Enrolment System under the Background of Big Data in Shanghai City..... (47)

Pei Wenjun (Shanghai I&C Foreign Languages School, Shanghai 200231, China)

Abstract: With the promotion of work standardization for Shanghai municipal secondary school enrolment, it is important to use government policies to support this work by the analysis of enrollment data. Since the number of enrolment increases, the rational use of big data technology is a trend. According to the current situation of enrollment system, this paper does research and analysis on development and design of the enrollment system under the background of big data from the aspect of enrolling informatization, which combines with the practice and application.

Key words: Big Data; Secondary Vocational School; Enrolment Registration System

Research and Application of Optimization and Management System for Enterprise Data Center..... (51)

Fan Yeping (Anhui Nari Software Co.,LTD., Hefei 230088, China)

Abstract: Data gradually becomes the core assets of enterprises. The core of enterprise management is decision, while the basis of decision is data. It can control the production and operation of the enterprises well only by controlling the core information and data of the enterprises accurately. According to the current situation of resource management and application in the data center, this paper researches the source of the data center. Then it proposes the Optimization and Management objectives of the data center and clears the responsibility of data management by analyzing the reason for the data quality problems. At last, it constructs the optimization and management system model of the data center in four aspects of organizing, standard, management and technology to improve the execution of data

management in the data center. It forms normalizing operation mechanism of enterprise data control to guarantee the data quality of the data center and fully uses the value of the data assets in data center. Then it can improve the service ability of the data center.

Key words: Governance System; Data Control; Data Quality; Data Assets

Design and Implementation of Real Time Information Management System of Public Transportation Company..... (54)
Zeng Xiaojuan (Department of Information Engineering, Higher Vocational School of Electrical and Mechanical Services in Jiangsu Xuzhou, Xuzhou 221011, China)

Abstract: With the development of public transport field, bus operators need to provide better service to their passengers. In order to achieve this goal, safe and reasonable information services must be provided for the passengers to improve and extend the service. These improvements are too expensive to the public transportation company so that it maybe effects the sustainable development of the company. This paper designs an intelligent transportation system (ITS), which can provide monitoring and management tools to improve the management level of passenger transport system (RTPI). The SITREPA system includes hardware and software, which can collect the information of the bus and provide the corresponding information service for the different needs of the public transport environment. This system with low complexity and low cost is enough to meet the needs of most of the medium and small bus companies. After testing, the system can become an important tool for passengers and can improve the quality of public transport services.

Key words: Bus Company; Real Time; Information Management System; Prediction Accuracy Evaluation

A Credible Recommendation Method for Social Shopping Systems..... (57)
Zhang Ting^{1,2}, Zhao Weidong^{1,2}, Liu Gang^{1,2} (1.Software School, Fudan University, Shanghai 201203, China;2.Shanghai Key Laboratory of Data Science, Fudan University, Shanghai 201203, China)

Abstract: Providing high quality recommendations to users is very important in e-commerce systems. The traditional collaborative recommendation systems are suffering a lot of problems, like data sparsity and cold start. In order to solve these problems, a credible recommendation method for social shopping platforms is proposed. This method builds up a web of trust without explicit trust relationships by mining users' behavior data. The trust is derived by both users' private trust and users' global reputation. It applies user's social preference mining and sentiment analysis in the approach. The experimental results showed that the approach based on trust increased the recommendation accuracy(MAE=0.774) as well as the coverage(50.4%).

Key words: Social Shopping; Trust; Collaborative-filtering; Sentiment Analysis

Longings of Mobile Medical Treatment Based on Network Technology..... (64)
He Guangxu (Jiao Zuo People's Hospital of He Nan Province, Jiaozuo 454002, China)

Abstract: With the development of computer, communication and network technology, modern society comes into the mobile era. The mobile medical era based on network technology is coming. The development of mobile medical treatment will make great changes of hospital, medical, diagnosis and treatment in the future. Among all of them, all elements of future hospital will have unprecedented changes. It will not only break down the traditional limits, but also move all elements including clinical information, remote medical treatment, health management and health platform construction into the network. Such era is coming soon, and many projects are in operation. The theoretical foundations and technology supports of mobile medical treatments are to generally applied computer technology into every aspect of life, and then it is presented in the reality in an invisible way. Mobile medical treatment is just a practical application of such technology.

Key words: Network Technology; Mobile Medical Treatment

DEVELOPMENT AND APPLICATION

Application Research and Implementation of Activation Scheme Based on CA..... (67)
Wang Ping (China University of Petroleum (East China), Qingdao 266580, China)

Abstract: This paper firstly introduces two authorization activation methods in agreement on campus procurement which are called key management service and multiple-activation key. Then the activation method for a specific network is determined according to the specific situation of the unit network. Finally the implementation of analysis results in practice shows the effectiveness of the analysis.

Key words: Genuine Software; Campus Agreement; Volume Activation; Key Management Service; Multiple Activation Key

Implementation of Dynamic Binding Method Overloading in Java.....(69)
Yan Zhonglin (College of Information, Mechanical and Electrical Engineering, Shanghai Normal University, Shanghai 200234, China)

Abstract: Java allows 'method overloading'. Its execution code is determined at compile time, and cannot be changed at runtime based on the actual object. This may increase the complexity of the program. By using the JSR-292, this paper implements a framework to bind overloaded method at runtime. The program can be more simple, reusable and extensible.

Key words: Method Overloading; Method Overriding; Invoke Dynamic Instruction; Method Handle; Java Class File Handling

TECHNICAL COMMUNICATION

Image Denoising Using FSV M Classification in BEMD Domain.....(72)
Wu Changjian, Chen Rujing (School of Computer and Information Technology, Liaoning Normal University, Dalian 116029, China)

Abstract: BEMD(Bidimensional Empirical Mode Decomposition) is a kind of excellent multi-resolution analysis tool, and it can analyze nonlinear or non-stationary signal effectively. Based on BEMD transformation, an image denoising using fuzzy support vector machine (FSVM) is proposed. First, the noisy image is decomposed into different subbands of frequency using the BEMD transformation. Secondly, the BEMD coefficients are divided into two classes (edge-related coefficients and noise-related ones) by FSV M training model. Finally, the coefficients containing noise are denoised by using adaptive threshold value. Extensive experimental results demonstrate that the method can obtain better performances in terms of both subjective and objective evaluations than other current denoising techniques. Especially, the proposed method can preserve edges very well while removing noise.

Key words: Image Denoising; BEMD; FSV M; Parameters Estimation; Edges Preserving

Creation and Use of ActiveX Control in Web Application.....(74)
Xing Suping(Nanjing Institute of Industry Technology, Nanjing 210023, China)

Abstract: This paper introduces the creation and use of ActiveX tool set proposed by Microsoft Corporation, which is widely used in desktop and web applications. ActiveX control is a reusable software component, which is based on COM. It is very convenient to add special functions in web and desktop applications with this tool. In this paper, it uses VS2010 to create an ActiveX control containing methods of adding attributes to the control, rewriting related functions, adding function, adding events excitation function and so on. Using ActiveX controls can enrich programming language function and broaden the application field of Web application.

Key words: Control; Web Pages; Attributes; Dialog Box

Management Methods For Quality of Data Service.....(77)
He Wenjin, Gu Haomin (Anhui Jiyuan Software Co., LTD. State Grid Information & Telecommunication Group, Hefei 230088, China)

Abstract: The level of service delivered by the data center is mainly influenced by the quality of data and the service quality of the software and hardware of the data center. At present, there is no model or system being able to measure these two aspects of factors uniformly. Therefore, this paper proposes a management method of data service quality, and the data quality and service quality are unified for data service quality. First, put forward a data model of service quality containing the definition and algorithm. Then it achieves the model through the research and development of a data management platform of service quality. Finally, from the application case of the data center in power grid enterprise, it demonstrates the effectiveness of the model and management platform.

Key words: Data Center; Data Quality; Data Service Management Platform

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