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~ *ABSTRACTS* ~

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Statement of Purpose

The **JOURNAL OF INFORMATION SYSTEMS & OPERATION MANAGEMENT (ISSN 1843-4711)**, published two times annually by the Romanian American University, is specialized in IT domains. The articles published, apply to the scientists, researchers and users of IT (field), interested in enlarging the knowledge horizon with specialty notions, new work papers and reference studies, to apply in their own field. Though the presentation of some scientific paper works and IT&C culture promotion, necessary for a functional market economy, the review intends to be a favorable space for debates and a challenge at the same time. Any study or opinion that can contribute to the development of the understanding degree of the IT&C as a science is welcome. JISOM encourages cross-disciplinary research work of Romanian and foreign scholars.

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THE ROLE OF XML IN THE MODELING PROCESS OF A VIRTUAL BUSINESS

Lucia Rusu¹
Cristina Nemeş²
Marius Podean³

Abstract

The aim of this paper is to describe the XML stack of languages used in the implementation process of a web application. This application is based on a three tier architecture named XRX. In this type of architecture there is no need for data model transformations between the tiers of the architecture like in the classical architecture. So the applications developed according XRX architecture become more flexible, efficient and simple.

Keywords: XML, XPath, XQuery, XSLT, XForms, XRX, UBL

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A GAMES THEORY PERCEPTION ON INTERSTATE COOPERATION: TRADE INCENTIVES IN THE BLACK SEA REGION AND THE IMPLICATIONS FOR ROMANIA

Vasile Adrian¹
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Abstract

The international economic and political environment is constantly influenced by a wide and dynamic set of factors which constrain and preoccupy policymakers. The various interdependencies that potentially exist between certain business activities and state decisions are difficult to assess in the complexity that characterizes the real world. Thus, great efforts have been made in trying to create models that reduce the variety and dynamic of certain observations in order to grasp the evolutions and connections between individual factors. The relation that exists between the activity of trade and the probability of engaging in a conflicting situation has long been addressed and accepted as consistent, though sometimes with paradoxical outcomes.

This article follows these previous notions and by using games theory principles and methods it illustrates the situation existing in the Black Sea region by trying to create a model or, in this case a game, that identifies the possible outcomes in relation to certain economic incentives.

Keywords: games theory, economic incentives, interstate conflict, static game, complete information game.

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THE INFLUENCE OF E-MANAGEMENT APPLICATION UPOIN THE SMALL AND MEDIUM ENTERPRISES ORGANIZATIONAL CULTURE

Corneliu Gârjoabă¹

Abstract:

The internet lays the foundation of the knowledge society's manifestation bringing new opportunities for the development of the business environment, capitalized predominantly by the small and medium enterprises that, benefiting of a flexible structure, cross with great ease to the „e-business,, type of business in order to operate on the virtual market and to obtain higher revenues and faster than in the traditional way.

Keywords: Internet, e-Management, e-business, organizational culture, management culture, knowledge society, competitive advantage, performance, sustained development.

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SENSOR ARRAY ABLE TO DETECT AND RECOGNISE CHEMICAL WARFARE AGENTS

I. Bucur, S. Serban, A. Surpateanu, N. Cupcea¹

C. Viespe, C. Grigoriu²

C. Toader, N. Grigoriu³

Abstract

In this paper we studied a device based on array of six different sensors with surface acoustic wave for detections and recognition of three chemical warfare agents (chloropicrin, soman and lewisite). The sensors are “delay line” type with a center frequency of 69.4 MHz.

It presents an original algorithm to identify the nature and concentration of gas from a finite range of possible gases.

Numerical program developed to implement this algorithm, provides to operators all the particulars of gas and an indicator of credibility of the results provided as a measure of the degree of disturbance of the signals received from sensors.

Keywords: SAW, chemical warfare agent, array of sensors, algorithm.

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AN EHR DOCUMENT MODEL OF CHRONIC PATIENTS

Lucia Rusu¹
Simona Marțiș²
Marius Podean³
Răzvan Costin⁴

Abstract

This paper presents a new approach for developing and improving medical and pharmaceutical services focused on XML solution as a common exchange language between specialists in collaborative framework. Our target was to establish several hierarchical features according with SIUI national e-health system and international medical standards.

Acknowledgment: Grant no. 2246 PN2 IDEI /2008-eProCord.

Keywords: medical registrations, EHR standards, hierarchical decomposition, XML

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USE OF SPECTRAL THEORY OF MATRICES TO STUDY SEISMIC MOVEMENTS

Mircea Cîrnu¹
Gabriela Cîrțală²

Abstract

To the worldwide efforts made for understand the dynamics of seismic movements, a significant contribution was made by the research group of Massachusetts Institute of Technology. Such a contribution was given in 1983 by L. R. Lines and S. Treitel, [4]. Starting from ideas contained in this paper [4], we present here, in all mathematical details, how the stages of development of earthquake can be characterized. The impulse response of the main filter that characterizes the seismic movement is obtained by minimizing a second moment norm. This is made by Lagrange multipliers method. The obtained impulse responses are found to be eigenvectors of some matrix, named moment of inertia matrix. The properties of this matrix are specified. A simple example to emphasize the theory, including the deduction of relations between the main parameters of the earthquake is given, using discrete convolution and deconvolution. Several conclusions are finally presented.

Keywords: earthquake, second moment norm minimization, Lagrange multipliers method, eigenvalues and eigenvectors of a matrix.

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THE IMPACT OF COLLABORATIVE SYSTEMS ON ACADEMIA, e-BUSINESS AND INFORMATION SOCIETY

Virgil Chichernea¹

Abstract

The economic impact of the digital revolution is highly important. Without www, globalization and outsourcing would have not been possible. The impact of the IT technological boom, especially on the higher education process is highly important. The facilities offered by the IT technological environments allow major changes both at the level of the teaching materials' design and the projection of the learning environment, by using new systems and collaborative-participative technologies, student-oriented with distributed resources and a real fluidity of the roles in the learning process. Nowadays, small and middle – sized enterprises use the same collaborative systems (or their components) known by abbreviations such as ERP, CRM, SCM, HRS, etc. in order to provide data and information to the decision-making bodies at all levels, in due time. One of the problems in using collaborative systems has been the complexity of large-scale systems and, therefore, the main topics of this paper are: basic components, development of collaborative systems, benefits, costs, replacing/ re-implementing, e-Business, structuring the manufacturing Database, achievement of these systems successfully etc, and integration of these systems into the academic curriculum.

Keywords: Collaborative Systems, e-Learning, m-Learning, i-Click Technologies, Globalization, e- Business, Information Society

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LOAD DISTRIBUTION AND RESOURCE SHARING

Vasile Lungu¹

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Abstract

This paper will discuss about the system structure and system design philosophy for the large scale control systems. The design philosophy, the main theme of this article, is "load distribution and resource sharing", but also the following items will be discussed:

- three level hierarchy control system philosophy;
- coupling and optimal load sharing among SCC/DDC computers;
- sharing of the process resources among computers.

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EUROPEAN AND INTERNATIONAL APPROACH ON THE ACCOUNTING FOR INTANGIBLE ASSETS

Victor Munteanu¹

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Alice Țință³

Abstract

The development of the competitiveness hasn't been a priority for Romanian companies until the moment of the economical crisis. The difference can be seen in quality, services, innovation, image, knowledge, the approach to information, culture, etc. The companies that manage to differentiate from the others will resist in time and the economic advantage is made through intangible assets. The assessment of the intangible assets is the real description of the company wealth which is very well known to all balance sheet users, because it contains their fair value.

Keywords: intangible assets, assessment, reassessment, recognition, fair value

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DOCUMENT MANAGEMENT IN CONTEXT OF COLLABORATIVE SYSTEMS

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Costin Aurelian-Răzvan²

Maria Iulia Laba³

Abstract

In this paper we will present the implementation aspects of a document management application, meant to administrate different types of formats. We propose an application which provides full functionality for accessing information, taking into account the security aspects of documents, and quick access to data. The application offers the possibility to track changes, manage data, save information, as well as document management functionalities. Our purpose is to create a suitable, easy-to-use application which, if used, will guarantee efficiency in an organization.

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THE ELECTRONIC SIGNATURE. ITS VALORIZATION AS A EVIDENTIARY MEANS IN NATIONAL OR INTERNATIONAL PENDING CASES JUDGED IN COURTS

. George Măgureanu¹

Abstract

In the European Union states, there is a variety of legal norms regulating the electronic signature, fact which led to the initiative of the European Commission to harmonize the incidental dispositions in the legislation of the member states to eliminate all the legislative discrepancies. For the legal operations which take place in the virtual space, they raised the issue of confirming the agreements according to the allegations made in the respective documents, the signature authenticity being questioned for lack of well established rules and without a corresponding protection which could eliminate the possibility of altering it. Unlike the traditional writs, the electronic writs do not have a strictly visual representation. As a result, it is imperative that the recipient should verify, using specific methods, the conformity of the signature, respectively the document authenticity.

Keywords: Electronic signature, electronic writs, document authenticity, holograph signature, certification services, private key.

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² For further details regarding the evidentiary system in the cases filed in courts, in national or international litigations, also see: A. Ionașcu, Probele în procesul civil, the Scientific Publishing House, Bucharest, 1969;

SIGNCRYPTION ANALYZE

Laura Savu¹

Abstract

The aim of this paper is to provide an overview for the research that has been done so far in signcryption area. The paper also presents the extensions for the signcryption scheme and discusses the security in signcryption. The main contribution to this paper represents the implementation of the signcryption algorithm with the examples provided.

KeyWords: ElGamal, elliptic curves, encryption, identity-based, proxy-signcryption, public key, ring-signcryption, RSA, signcryption.

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INTEGRATED TOURISM MANAGEMENT

*Sergiu Jecan*¹

*Man Ionut*²

Abstract

Because the changes in technology, especially in the Internet area are more and more striking, it is necessary for us to keep up with this changes. That is why many of us are now aware of the importance of the Internet and are using it almost everyday. In tourism the changes are perceived especially in the modifications observed in traveller's behavior. Today's travellers are more fastidious in choosing their destinations. This is why they are testing the market much more than they used to do before and are looking for precise information about the prices, the offers and the events in a specific area. The online market provides this information, but it is not enough to have the information, also it is ought to have the power to sell it. This site aims first to serve and than to delight the actual and potential tourists who are willing to travel and visit Romania, using a website which respects the best programming methods for this type of commercial activities.

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DESIGNING HTML HELPERS TO OPTIMIZE WEB APPLICATION DEVELOPMENT

*Dragos-Paul Pop*¹

Abstract

Building a web application or a website can become difficult, just because so many technologies are involved. Generally companies tend to people that work in teams to develop web applications. These teams are made up of professionals that focus on different technologies, such as CGI, HTML, JavaScript, CSS and databases. When the work of many people gathers to make up a single document there is often a mismatch between parts of code written by different team members. This article focuses on improving this matter by bringing consistency in code through the use of HTML helpers in server-side scripting languages. The examples in this article use PHP as the server-side language, but the model can be applied in any other language a developer works with.

Keywords: HTML, CGI, Helper, OOP, code generation

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THE ANALYSIS OF FISCAL RISK

*Alina Cojan*¹

Abstract

This article describes the fiscal risk analysis, with emphasis on environmental and organizational factors, which should be taking into account in the risk management process. A special attention was given to the role of the fiscal policy and voluntary compliance related issues.

Keywords: taxpayers, fiscal risk, optimization, economic effect, compliance.

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FROM “PRE-ECONOMICS” TO THE DEVELOPED INFORMATIONAL ECONOMY – A SCIENTIFIC REVIEW

*Bodislav Dumitru-Alexandru
Cheptea Madalina²*

Abstract

During the 5000 years of economic evolution (considering the oldest textbooks available today) that produced an organic evolution and economic entanglement, but which led in our days at a turning point for the global economy. Why choose to present the economic spark from the beginning of the first recorded writings? Because we deal with the big picture – a framework that represents “life” and the economy that isn’t loaded with the evolution of ethics, moral and informational, the initial picture shows the purity of the early civilization, naked by the actual’ modernist add-ons.

This research paper is an overview of the main ideas that molded the actual economic life by creating a bridge between the “pre-economy” period when trade was based on thievery or unvalued exchange till the development of today’s economic science, that has as defining point Adam Smith and his view on economic development through the its power engine – self interest and the human being.

Keywords: human development, business cycle, utility, enlightenment, consumption, self-interest

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DISADVANTAGES PRESENTED BY HTML INLINE FRAMES IN INTEGRATION OF 3rd PARTY CONTENT

Joița Alin-Cristian¹

Abstract

As new virtual structures emerge, new applications, new widgets, new services become available to embed in websites. One of the preferred solutions for embedding 3rd party content is the HTML Inline Frame or iFrame. In this context, the introduction establishes the importance of the matter: major market players like Facebook, Google and Microsoft decided to include this tag in their solutions, but is it safe? Also, what other problems might webmasters face by implementing it? The results of the research, problems and security threats, are classified in five categories: cross-domain communication, reflection attacks with XSS (cross-site scripting), CSS Overlay, URL Redirection and Host Content Dependence. For each group, examples and code samples are provided, where applicable.

Keywords: iFrame, security, cross-site scripting(XSS), cross domain, malware

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DATA MINING TECHNOLOGY

Georgiana Marin¹

Abstract

In terms of data processing, classical statistical models are restrictive; it requires hypotheses, the knowledge and experience of specialists, equations, effective knowledge of probabilities distribution and the data must have a high quality, being subject to prior processing and transformations. Because of these disadvantages the concept of data mining has emerged, implementing knowledge extraction algorithms from the large data collections. Data mining is a process consisting in collecting knowledge from databases or data warehouses and the information collected that had never been known before, it is valid and operational. Nowadays data mining is a modern and powerful IT&C tool, automatizing the process of discovering relationships and combinations in raw data and using the results in an automatic decision support.

Keywords: data mining, data warehouse, knowledge discovery, OLAP, OLAM.

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DISTRIBUTION OF DATA ON THE WEB

Luminița Pătrașcu

Abstract

Data are most often represented in tabular form, where each row represents a few records that are described and each column represents some properties of these items. Cells in a table have particular values for these properties. This article shows a sample of data about a school, completed during the school-leaving examination, 2017. We analyze several different strategies on how these data can be distributed on the web. In all these strategies, some data will be represented on a computer while other parts will be represented on another computer.

Keywords: school leaving-examination, data distribution of Web, strategies for the distribution of data on Web, distributed data, RDF solution, semantic web

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COMPUTER BASED ENVIRONMENT CONTROLS

Macoveiciuc Pastorel¹

Abstract

The aim of these notes is to give an overview of the main activities of computer based activities controls. The basic principles of computer controls should be common to all sectors and to most types of hardware and software. The absence of a common definition of computer control may, in part, be due to the relative newness of computer controls. A key feature of many organisations today is change. Although not necessarily the driver of change, IT is invariably an intrinsic component and much of the change would not be possible without IT. IT has had a major impact on social, economic and political factors throughout the world. Not only has it led to the creation of new professions but it has also revolutionised others, such as office work, or, when combined with robotics, manufacturing industries.

Keywords: control, risk assessment, computer environment, data testing, impact of computers on controls.

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GRAPHICAL INTERFACE FOR COMMUNICATION BETWEEN STUDENTS

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*Țolea Eniko*²

*Claudiu Adrian Teșca*³

Abstract

In carrying out this work we had as objective the presentation of the basics elements of collaboration and how students can benefit from an application that encourages them to work together. In this paper we will propose a simple communication interface for students. This application was made using popular technologies like Microsoft Visual Studio 2008 environment and Microsoft SQL Server 2000. We will explain why we choose these solutions, and how they helped us reach our goal.

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ORACLE DATABASE SECURITY

*Cristina-Maria Titrade*¹

Abstract

This paper presents some security issues, namely security database system level, data level security, user-level security, user management, resource management and password management.

Security is a constant concern in the design and database development. Usually, there are no concerns about the existence of security, but rather how large it should be. A typically DBMS has several levels of security, in addition to those offered by the operating system or network. Typically, a DBMS has user accounts that require a login password to be authenticated to access the data.

Keywords: data security, password administration, Oracle HTTP Server, OracleAS, access control.

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CLASSIFICATION OF EUROPEAN UNION COUNTRIES FROM DATA MINING POINT OF VIEW, USING SAS ENTERPRISE GUIDE

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*Ionela Catalina Tudorache*²

*Mihai Tiberiu Iordache*³

Abstract

With the development of computers and the increasing the amount of data it appeared the need of identifying new acquaintances, unknown until that moment in a relatively short time. The term of data mining involves the analysis of data from different views (aspects) in order to extract the knowledge to use them further in the foundation of decisions at microeconomic or macroeconomic levels. In this article we apply data analysis techniques such as principal component analysis and cluster analysis in order to group

the countries of the European Union based on the financial indicators registered at the end of 2009 year.

Keywords: classification, cluster, data mining, European Union, financial indicators

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LOAN TRANSLATION AS MEANS OF EXPRESSING E-COMMERCE TERMINOLOGY

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Abstract

In this paper we present an analysis of the Romanian e-commerce terminology, taking into consideration that the English language has had a major role in the linguistic globalization of the specialized languages. Therefore, e-commerce does not make an exception because its terminology is used worldwide and, concerning the Romanian e-commerce terms, we distinguished both the use of partial loan translations and full loan translations which make up fixed collocations, as special means of expressing the e-commerce terminology in Romanian. Furthermore, members of The Panlatin Network of Terminology have collaborated and made glossaries for various specialized languages. We gave examples of terms from The Panlatin Glossary of e-commerce, underlining that their conceptual equivalence is expressed in many ways, both in Italian and Romanian. This aspect leads to synonymy, because a “terme vedette” was not enforced.

Keywords: e-commerce terminology, loan translation, fixed collocations, concept, conceptual equivalence

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