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CONVERGENCE ARCHITECTURES OF SOCIAL AND CORPORATE INFORMATION ENVIRONMENT OF HUMAN

B. Slavin

Annotation

The paper shows that the architecture of social networks and the architecture of enterprise information systems are becoming similar. The network of expertise will be the main carrier of knowledge and a source of public control in future. It contributes to convergence of social and professional activities and combines enterprise IS technology and social network technology.

Key words: automation, enterprise information systems, social networks, cloud computing, crowdsourcing.

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SYSTEM DYNAMICS MODELING OF BANKING GROUP STRATEGY

A. Akopov

Annotation

The new approach to formation of long-term strategy of a banking group with use of methods of system dynamics is presented. The offered approach is based on the developed mathematical model of control of key performance indicators (KPI) the banking group, realized by the simulation platform of Powersim Studio. We will notice that the described system is successfully implemented in the largest Russian bank groups (Top-10), and is used for preparation of strategic decisions.

Key words: key performance indicators, system dynamics, simulation, banking group, Powersim.

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STRATIFICATION AS THE BASE OF GOVERNMENT DECISION SUPPORT SYSTEM ENGINEERING TECHNOLOGY ON PENSION SPHERE EXAMPLE

N. Lychkina, Y. Morozova

Annotation

The article describes the social-economic system stratification conception which is the base of government

decision support system engineering. It presents notations and examples of stratificated description of Russian Federation pension system.

Key words: pension system, Decision Support System, simulation modeling, system dynamic, agent-based modeling, stratificated description of model complex, system flow charts.

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BUSINESS TRANSACTIONS: PROPERTIES AND FEATURES

I. Artamonov

Annotation

Abstract: In the theory of service oriented computing and for description of heterogeneous computational environments' interaction a term «business transaction» is used quite often in science literature and international standards. This article defines its up-to-date meaning, describes business transaction's properties and distinctive features, that distinguish it from plain database transaction, and examines a development of this model from the theory of advanced transactions.)

Key words: business process, business transaction, service-oriented architecture, web service, ACID, transaction compensation, B2B interaction, advanced transactions)

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THE ROLE OF OPEN EDUCATIONAL RESOURCES IN MODERN MULTICULTURAL INFORMATION AND LEARNING ENVIRONMENT

J. Taratukhina, I. Baranova

Annotation

This article describes the features of the organization and functioning of open educational resources in different cultures in terms of specific national information and educational environments. We consider the cultural, psychological and pedagogical aspects of content creation and use of open educational resources from different cultures, different styles of communication and pedagogical discourse features. It also focuses on national and cultural specificity of the ergonomic design of open educational resources.

Key words: open educational resources, communicative and educational technologies, information environment, innovations in teaching, learning space.

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EVALUATION OF THE RUSSIAN IT SERVICES MARKET MATURITY LEVEL

R. Vasiliev, G. Levochkina

Annotation

In this article authors analyze the current status and perspectives of the Russian IT services market. The specialty of the research is set of criteria developed by authors that includes market specific and approaches used in portfolio analysis for determination of market maturity level.

Key words: IT services, model of industry lifecycle, KPI of market maturity, level of maturity.

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COGNITIVE MAP FOR THE ANALYSIS OF PROBLEMS OF THE REGIONAL INFORMATIZATION.

R. Gulmammadov

Annotation

The base tool of cognitive modelling – special kind of a cognitive map reflecting structurally-time features of the mechanism of regional informatization is offered. Map can be used for the qualitative analysis and the decision of some the key problems connected with a choice of priority directions of informatization, studying of dynamics of internal indicators of informatization, estimation of influence of informatization on the basic indicators of economic growth of regions.

Key words: regional informatization, the analysis of problems, cognitive approach, cognitive map.

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THE MODEL OF OPERATIONAL RISK QUANTITATIVE ASSESSMENT (TECHNICAL RISK – IT-SYSTEM BREAKDOWN) IN STATISTICAL INCORRECT ENVIRONMENT

Y. Lavrushina, A. Makarova, A. Kulikov

Annotation

The article is dedicated to quantitative assessment of operational risk in statistical incorrect environment specified by insufficiency of data: IT-system failure/breakdown and time to recovery. For low probabilities of operational events standard Monte-Carlo simulation method gives inconsistent result for operational risk assessment. The authors use

exponential twisting method and system capabilities as well as Company's business continuity reliability specifications.

Key words: quantitative assessment, operational risk exposure, expected and unexpected losses (operational V@R), IT-system failure/breakdown probability, mean downtime, business continuity matrix, exponential twisting method.

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STRUCTURING OF INSURANCE DATA TO INCREASE THE EFFICIENCY OF INFORMATIONAL CAPITAL

O. Gorbachev

Annotation

The article studies informational resources generated by insurance activities, in particular, such as «customer base» and «retrospective data». It is shown that these resources have a number of features typical for capital (as an aspect of production), including efficiency (the ability to make profit), and represent the information actuarial capital. A qualitatively new informational model of the insurance portfolio, – based on author's definition of «class of homogeneity», is proposed. This model can significantly improve the efficiency of the informational actuarial capital.

Key words: actuarial informational capital, homogeneous insurance portfolio, basis vector of damage, vector of damage factors, customer base, retrospective data.

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INFORMATION PROTECTION OF PERSONAL DATA: THE THREAT DOMINANT SOURCE

V. Ershov, P. Smirnova

Annotation

Law «On personal data» is a matter of controversy and debate. This is largely due to the ambiguous, at times scarce methodological framework, which describes the procedure for constructing system of protection. Some points are left for the ultimate decision of the personal data operator who is responsible for the adequacy and sufficiency of the taken measures. The paper provides a methodology to determine the relevance of information security threats with a clear view on the trespassing models, which helps to improve the efficiency of the protection system and, if necessary, justify the measures of protection more convincingly.

Key words: information security, personal data, the threat model, the model intruder.