



EDUCATIONAL ONLINE COMMUNITIES IN MULTICULTURAL CONTEXT: OPEN CONTENT

J. Taratukhina, O. Chamina

Annotation

In the paper the general trends in the organization of educational communications related with open content development in educational network communities in different cultural environments are discussed, taking into consideration the socio-cultural characteristics of educational systems.

Keywords: online communities, open content, information environment, communicative and pedagogical innovations, educational environment, cross-cultural didactics, multimedia didactics.



METHOD OF ASSESSMENT OF COMPETITIVENESS OF APPLICATION SOFTWARE

Y. Ehlakov, E. Yanchenko

Annotation

The paper deals with the competitiveness of an application software product. Algorithm for estimating competitiveness of an application software product based on analysis of existing estimation techniques products. The algorithm includes a set of criteria to assess the procedure for calculating and analyzing the integral index of competitiveness the integral index of competitiveness.

Key words: competitiveness, application software, integrated indicator of competitiveness.



A METHOD OF SEMANTIC TRANSFORMATION OF THE GENERALIZED SEARCH REQUESTS WITH THE HELP OF A GOAL BASE

A. Kirillov

Annotation

The paper describes a new method of constructing semantic expansions of search requests (of generalized character) for improving the results of Web search. This method is based on the theory of K-representations - a new theory of designing semantic-syntactic analyzers of natural language texts with the broad use of formal means for representing input, intermediary, and output data. The stated approach is implemented with the help of the programming language «Java»: an experimental search system AOS (Aspect Oriented Search) has been developed.

Key words: semantic search, semantic transformation, generalized request, conceptual basis, SK-language, conceptual goal base, transformation pattern.



AUTOMATIC RETRIEVAL OF PARALLEL COLLOCATIONS

V. Novitskiy

Annotation

The article describes an approach to automatic retrieval of parallel collocations (that means collocations and their translations to another language). The method is based on the comparison of syntactic trees of two parallel sentences. The key feature of the described method is set of filters that help to get more precise results.

Keywords: NLP, parallel collocations.



THE MODEL FOR IDENTIFICATION OF A NATURAL LANGUAGE OF THE TEXT

S. Gusev, A. Chepovskiy

Annotation

The article is viewing problem of automatic identification of a natural language of the text. The statistical model of texts in natural language are suggested. The algorithms of definition of a natural language of the text is offered

Key words: statistical model of language, identification of a natural language of the text.



SOFTWARE PACKAGE FOR GENERATING FAMILIES OF TRANSITIVE GRAPHS WITH DEGREE FOUR

A. Neznanov, Y. Starichkova

Annotation

The software package for generating infinite and finite families of connected transitive graphs with degree four is described. Those families cover all known graphs up to 30 vertices. Main feature of software is the catalog of families based on the characteristics of symmetry, structural complexity, and visualization of symmetric diagrams of graphs. The package extends the functionality of integrated research environment «Graph Model Workshop» and is used to solve problems that require synthesis of transitive topologies of systems.

Keywords: structural analysis, graph theory, group theory, transitive graphs, generating, symmetry, structural complexity, algorithm, software, implementation.



ORGANISATIONAL MATURITY APPRAISAL METHOD AND ITS IMPLEMENTATION

A. Biryukov, D. Kletskikh

Annotation

The article deals with organizational maturity evaluation. A method of organizational maturity evaluation based on the Business Process Maturity Model (BPMM) is proposed. The method allows organizations to assess maturity of their business processes. An approach to the implementation of the method is also presented.

Key words: business process management, level of organization maturity, capability maturity model BPMM, SLA, business processes maturity evaluation.



TECHNOLOGY OF REQUIREMENTS MAINTENANCE QUALITY CONTROL IN ORGANIZATIONAL STRUCTURES – MASS SERVICE PROVIDERS

A. Shabanov, M. Arakelian

Annotation

In the paper a technology of maintenance requirements quality control for organizational structures – mass service providers is examined. The technology covers the stages of design and application of information business systems. Such technology is applicable for organizational structures that perform activities based on repetitive services providing.

Keywords: organizational structure, business information system, control, quality of service.



LEGAL CLASSIFICATION OF INTERNET SERVICE PROVIDERS

A. Zharova

Annotation

In the relations associated with application of a digital product in Internet environment various subjects participate. In the article a legal classification of such information subjects as service providers is offered. A comparative legal analysis of the information legislation of Russia, laws of the USA and positions of the Instruction on electronic trade of the European union 2000/31/EC is carried out. It is underlined that introduction of additional criteria for existing legal classification of the persons rendering Internet services, associated with particular services and functions, is necessary.

Keywords: Internet, Internet provider, operator, responsibility of persons, international classification of providers, legislation of the USA, legislation of the European Union.