

MAHAMMAD SHARIFOV

IT Research Worker

Personal Information

Date of Birth: 13.06.1977

Place of Birth: Armenia

Nationality: Azerbaijanian

Sex: Male

Marital status: Single

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Education

2003 – 2008 Ph.D. in System Analyze, Control and Information Processing , Institute of Information Technology of the Azerbaijan National Academy of Sciences

1998 – 2000 M.Sc. in Control of Automatic Systems and Program Provision, Azerbaijan Technical University

1994 – 1998 B.Sc. in Computer Mathematics, Azerbaijan Technical University

Linguistic Ability

English - upper intermediate, **Russian** - advanced, **Turkish** - fluently, **Azeri** - native

Work Experience

- **Since November 2009**, Head of the Department at the Institute of Information Technology of (ANAS) Azerbaijan National Academy of Sciences
- **2008 – Present**, General Director of Coloritm Studio
- **2005 – 2009**, Senior Researcher at the Institute of Information Technology of ANAS
- **2008 – 2009**, Design Department Director of MinA Design Studio
- **2002 – 2005**, Researcher at the Institute of Information Technology of ANAS
- **2000 – 2002**, Software Engineer at the Information Telecommunication Scientific Center of ANAS

Computational Skills

- **Programming Languages:** PHP, HTML, CSS, Java Script, DHTML, MySQL
- **Design:** Adobe Flash, Adobe Photoshop, Adobe Illustrator, Adobe Dreamweaver, Cinema 4D, SWISHmax
- **OS Platforms:** Windows, Mac OS, Linux

Research Fields and Interests

Information spaces, CDN technology, data mining, clustering technology, software engineering, information society, e-government, e-governance, project management, public administration, social networks,

Main Publications

Articles

Minimization delivery cost in Content Delivery Networks with multilevel hierarchical architecture **M.H.Sharifov**

Abstract. In paper the multilevel caching model in Content Delivery Networks, providing minimization of delivery cost of Web-contents to end users is offered. Minimization of delivery cost is reached by integrated approach to the decision of problems: optimum distribution of demands, determination of optimum placement points of servers and optimum distribution of content-replications on servers. The proposed model is reduced to discrete programming problem.

Analyse of modern condition of structuring chaotic information spaces on the network basis **M.H.Sharifov**

Abstract. We present the analysis and study of the formation stages of status and trends of information spaces, introduced various approaches to structuring the optimal information spaces on the basis of CDN-technology.

A model of the optimal placement of servers and web- contents in a Content Delivery Networks **R.M.Alguliev, R.M.Aliguliyev, M.H.Sharifov**

Abstract. In the work is proposed the new model of the optimal placement of servers and Web-contents in Content Delivery Networks for the purpose of the minimization of delivery cost of contents to end users. This model considers the structure of network, and the weight of each Web-content in the nodes of network. The mathematical formulation of the model proposed is reduced to the linear integer programming problem. In this work the synthesis of neural network for the solution of the linear integer programming problem also is described.

An approach to the optimum placement of CDN servers in global networks nodes **R.M.Alguliev, R.M.Aliguliyev, M.H.Sharifov**

Abstract. In the article for the purpose of the minimization of delivery cost of Web-contents to end users, the model of the optimum placement of CDN servers in global networks nodes which realizes in two stages is offered. At the first stage by definition of importance degree of Web-contents is produced clustering of nodes, and in the second stage is described the algorithm determination of optimum placement points of CDN servers. Clustering of nodes and selection of optimum placement points of CDN servers are reduced to combinatory optimization problems, which are solved by means of genetic algorithms.

Creation of dinamically formed Intellectual Information Fonds on the base of CDN technology **R.M.Alguliev, I.M.Aliyev, M.H.Sharifov**

Abstract. The issues of creation of dinamically formed intellectual information fonds (IIF) on the base of CDN technology are describing in this article. IIF have been created on the base of "client-server" technology. The process of structure, the contents of the server and information search in it realizes by automated subsystem on the base of semantic web-technology.

Thesis

M.H.Sharifov. Development of content-servers for the corporate networks // **5th International Workshop "Information networks, systems and technologies", Moscow, 2004, p.154- 160**

R.M.Aliguliyev, I.M.Aliyev, M.H.Sharifov. Development of content-server networks on the base of CDN technology // **9th International Scientific Conference, Kharkov, 2003, p.54- 55**

R.M.Aliguliyev, I.M.Aliyev, M.H.Sharifov. Creation of dinamically formed intellectual information fonds on the base of CDN technology // **4th International Scientific Workshop "Information networks, systems and technologies", Moscow, 2003, p.116- 118**

I.M.Aliyev, **M.H.Sharifov**. Organization and manage of contents in the Intellectual Information Fond // **Information Technologies and Systems, Vladikavkaz, 2003, p.57- 60**