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Section I
Informatics, management systems, telecommunications and radiolocation

Section II
Shipbuilding, ship repair, and ecological safety of the ship

The article presents the economic-mathematical model of the current planning of icebreaking conductings in the sea basin and shows its working capacity on an example. The results of calculations for various objective functions are given, generality and differences in the plans of ice conductings by optimization of economic and technological criteria are marked out.

Bryzgalov A.V., Urtmincev Y.N.
Modern forms of organization of work of the river fleet

Keywords*: river transportation, organization of the fleet operation, forms of navigation*

The work is devoted to the analysis of modern forms of transportations and navigation in inland water transport. The changes in the conditions for the implementation of river transportations and ways of adapting to them at the turn of the twentieth and twenty-first centuries are shown.

Zhmachinskiy V.I., Xiangyu Wu
Prospects for the development of Russian-Chinese trade cooperation in the system of transport corridors (TC)

Key words: *transport corridor, trade turnover, development strategy, Eurasian Economic Union (EAEU), Shanghai Cooperation Organization (SCO), competitiveness.*

There is a task to strengthen economic cooperation with the countries of the Asia-Pacific region and «first of all» with China. It is a strategy of socio-economic development of Russia for the period up to 2020. To solve this problem, the authors of the article analyzed and evaluated alternative options for the development of transport communications in the East-West-East corridor system. The prospects for the development of existing land and sea transport highways (Transsib, BAM, South Sea Route), as well as the routes of the New Silk Road (NSR) and the Northern Sea Route (NSR) are considered. As a result, a conclusion is made about the prospects for the development of the Northern Sea Route (NSR).

Mordovchenkov N.V., Poljakov V.M.
Experience of development and improvement of certification in Germany: infrastructure aspect

Keywords*: accreditation, acronym, convention, competitiveness, control, logo, marketing, international organization, international market, management, modification, German culture, trademark protection, products, certification, syndication, standardization, technological audit, product, service, philosophy of thinking, expert, quality examination.*

At the present stage of development of innovative economy the need for integration processes is conditioned by the fulfillment of the international quality system requiremen. The aim of the work is to study the experience and the process of improving certification in Germany in solving global and priority infrastructure problems. Based on the analysis of the information resource on the status of the certification level in Germany, the Internet resource was used along with traditional methods (analysis, synthesis, generalization); the method of efficiency, the method of comparison and the integrated systems approach are used in the work. The work reveals the significant role of the state in increasing the importance of certification measures, increasing the efficiency and quality of the institution of standardization in the institutional economy at the meso level. The didactic list of components included in the necessary «pool» of competitive certification is expanded: marketing, management (MBA), technological audit and strategic controlling, engineering and reengineering, human (intellectual) capital. Using this approach, there is a syndicative effect, the productivity of equipment, labor and the quality of life of citizens in the context of globalization and state regulation of the technological economy and the transformation of intellectual infrastructure at the meso level is increasing. The experience of forming a certification strategy in Germany allows us to form the domestic vector of the certification and standardization institute in terms of improving the quality of goods, works, services, and increased attention to training highly qualified specialists in the field of solving infrastructure problems using the certification and standardization resource.

Platov A.Y., Platov J.I.
The modern methods of business planning of river fleet

Keywords*: planning of fleet operating, calculation of fuel consumption, fleet requirements, operating costs*

This article proposes a method for determining the requirements for the fleet, as well as operating costs for the transport of goods, taking into account the conditions of navigation and technical parameters of ships. It is shown that simple methods are used at the present moment for practice can lead to significant errors.

Section VI
Operation of ship power equipment