

## ABSTRACTS

УДК 330.101

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### **THE NATURE OF CONTRADICTION IN THE CONTEXT OF MODERN TECHNO-ECONOMIC PARADIGM**

The nature of contradictions that arise in the modern techno-economic paradigm and are connected with usage of resources has been examined. It has been confirmed that in the transition period from industrial to post-industrial relations the contradictions of society development connected with the usage of resources are those, which generate the greatest challenges to humankind. Within the techno-economic paradigm the contradiction are continued to exist between economic growth oriented on consumer-based model of society and exhaustion of natural resources. The contradiction named has a global content, which causes its deepening. The scientific statements about origin of contradictions related to the usage of resources in the transition period from industrial to post-industrial economy has been substantiated on the basis of differences of natural systems comparison (development of which is supported by the balance between substance and energy) and social and economic systems (development of which is determined besides knowledge and information as elements of the material world). It has been defined that a) knowledge and information are at the same time the reason for the increasing of contradictions and the means of its solution, b) knowledge component of social development process allows social and economic systems to exist during some time going beyond the preservation of internal balance, c) creation of new knowledge is the means of eliminated imbalance between the reserves of ecosystem, on one hand, and relentless economic growth, on the other hand, d) production of new knowledge becomes a compensatory tool during emergence of technogenic challenges.