

Назва	Ontology-Based Intelligent Control and Optimization of Ukraine's Energy System
Автори	<p><u>Natalia Chernova</u> Department of Software Engineering and Management Intelligent Technologies, «Kharkiv Polytechnic Institute», National Technical University, Kharkiv, Ukraine</p> <p><u>Olena Serhiienko</u> Business, Trade and Logistics Department, «Kharkiv Polytechnic Institute», National Technical University, Kharkiv, Ukraine</p> <p><u>Inna Ippolitova</u> Business, Trade and Logistics Department, «Kharkiv Polytechnic Institute», National Technical University, Kharkiv, Ukraine</p> <p><u>Oleksiy Petrukhnov</u> Business, Trade and Logistics Department, «Kharkiv Polytechnic Institute», National Technical University, Kharkiv, Ukraine</p> <p><u>Oleksandr Kaganovskyy</u> Department of Management and Business, S. Kuznets Kharkiv National University of Economics, Kharkiv, Ukraine</p> <p><u>Andrii Negliad</u> Department of Management and Administration, V.N.Karazin Kharkiv National University, Kharkiv, Ukraine</p>
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Реферат	Abstract: Energy sector is one of the core Ukraine economy structural components, its sustainable existence determines the development vector of the society. It can be described as a complex non-linear multidimensional system, in which transient processes operate and critical and chaotic regimes emerge. The creation of an effective control scheme for such a dynamic macro system is associated with a number of problems in the field of as design so and implementation and is still the topic for scientific discussions. The paper aim is to develop a comprehensive simulation ontology-based model of the energy system of Ukraine, which can be applied as the basis for a corresponding decision-making support system. The following tasks are to be completed to achieve the mentioned goal: determination of the main structural components of the energy system, which should be reflected in the model; determination of the required level of decomposition of the above-mentioned elements; construction of the basic version of the model, assessment of adequacy, planning and conducting of relevant model experiments; obtained results analysis.

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