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## **ELECTRONIC INFORMATION SYSTEMS FOR MONITORING OF POPULATIONS AND MIGRATIONS OF INSECTS**

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### **Abstract**

The purpose of the work was to analyze existing information systems (IS) of biological objects and to propose the methods for development of such IS for insects on the example of *Noctuidae* (*Lepidoptera*). A detailed analysis of technical information concerning the distributed networked systems, access to computer systems to the common data in electronic IS and the organization of biomedical databases in the Internet was done. The peculiarities of IS' prototypes development for environmental monitoring of the fauna have been discussed, in particular changes in the number of butterflies' populations throughout France (including western and southern departments), the *Noctuidae* (*Lepidoptera*) in the steppe zone of Ukraine (Striltzivskyi Steppe), and the development of such IS for all territory of Ukraine.

The results could be used to develop electronic IS for other biological organisms.

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