

### **List of key publications:**

#### **Artificial intelligence technologies used for optimal control of electric system modes**

·V. Z. Manusov, D. O. Krjukov. A Study of Thermal Behavior of HTS Devices at Alternating Current // International Journal of Electrical and Computer Engineering. – 2018. – Vol. 8. – №. 3. – P. 1389-1400.

·V. Z. Manusov, D. A. Pavlyuchenko, J. S. Ahyoev. A study of superconducting transformer with short-circuit current limitation // International Journal of Electrical and Computer Engineering. – 2018. – №. 8(1). – pp. 505–512.

V. Z. Manusov , N. Khasanzoda The Construction of Holonic Infrastructure of Intelligent Networks in the Smart Grid Concept with a Two-Way Flow of Energy // Problems of regional energy. E-Journal – 2017. – Vol. 3, No. 35, pp. 76-85.

V. Z. Manusov, P.V. Matrenin, J.S. Ahyoev, and L. Sh. Atabaeva, Optimization of Power Distribution Networks in Megacities // IOP Conf. Series: Earth and Environmental Science. – 2017. – Vol. 7. – Id. 012019 – 9 p.

V. Z. Manusov, N.M. Zaitseva. Analysis of electrical safety conditions taking into account soil conductivity determined on the basis of fuzzy logic // Problems of regional energy. E-Journal– 2017. – № 2 (34). – pp. 52-62.

V. Z. Manusov, P.V. Matrenin, S. Kokin. Swarm Intelligence algorithms for the problems of the optimal placement and operation control of reactive power sources in power grids // International Journal of Design and Nature & Ecodynamics. – 2017. – № 1. – Vol. 12. – pp. 101–112.