

## OVERVIEW OF 18 MIVAR EXPERT SYSTEMS CREATED ON MOGAN BASE

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*Research on mivar technologies of logical artificial intelligence allowed us to create in 2020 a new powerful, versatile and fast tool, which is called: Multidimensional open gnoseological active net (MOGAN). This tool allows to design quickly and easily algorithms and work with logical reasoning in the "If, Then" format, and it can be used to model cause-and-effect relationships in different subject areas and create knowledge bases of applied artificial intelligence systems of a new generation. The analysis of examples of the creation of 18 mivar expert systems in 2020, which confirmed the universal capabilities of mivar networks for logical modeling in KESMI Wi!Mi Navigator for completely different areas was performed. The application areas of mivar expert systems are constantly expanding, which justifies the need to expand the range of scientific research at the level of logic in the field of artificial intelligence.*

**Keywords:** mivar, mivar networks, artificial intelligence, expert system, rule-based systems, MOGAN, MIPRA, DSS, Wi!Mi, «Razumator», mivar scientific school, universal knowledge tools, big knowledge, knowledge nets, knowledge graphs.

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