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Информация о владельце:
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Discipline abstract

Name disciplines	**Системы искусственного интеллекта / Artificial Intelligence Systems**
Summary	Introduction to Intelligent Systems 1. History of artificial intelligence 2. Main areas of research in the field of artificial intelligence 3. Knowledge representation models. Knowledge-Based Inference Basic Concepts of Knowledge-Based Systems 1. Basic concepts and structure of expert systems 2. Classifications of knowledge-based systems 3. Technology for the design and development of intelligent systems Representation of knowledge. 1.Basic concepts. 2. The composition of the knowledge of AIS. 3.Organization of AIS knowledge. Understanding knowledge bases 1. Extraction of knowledge. 2. Knowledge integration. 3. Knowledge bases. Development of expert systems 1. Stages of development of expert systems 2. Development of an expert system prototype 3. Intelligent Systems Developers Team Knowledge Representation Models. 1. Representation of knowledge using a production system. Subtechnologies of artificial intelligence. 1. Standard for solving problems of data analysis. 2. The roles of participants in data analysis projects. Implementation of machine learning systems in the "industry". 1. Key examples of the use of AI in the industry Knowledge representation using predicate logic. 1. logical models. 2. Predicate logic as a form of knowledge representation. 3. Syntax and semantics of predicate logic Natural language interface systems 1. Basic concepts of systems with a natural language interface 2. Statement of the problem of designing a natural language dialog interface 3. Basic concepts of the theory of constructing grammars Representation of knowledge by frames and inference on frames. 1. Frame theory. 2. Models of knowledge representation by frames. Self-learning systems 1. The concept and characteristics of self-learning systems. 2. Classification of self-learning systems 3. Design of adaptive learning systems Intelligent Internet technologies 1. Ontologies and ontological systems 2. software agents. Multi-agent systems 3. Information retrieval in the Internet environment

	Fundamentals of programming for data analysis problems. 1. The study of individual areas of data analysis. 2. Classification problem.
resultsdevel opment disciplines (module)	When solving problems of professional activity, he uses artificial intelligence systems. Focusing on the tasks of professional activities,reasonably chooses artificial intelligence systems Applies artificial intelligence systems to solve problems of professional activity
labor input, cu	3
Form reporting	Graded (grading)
List of basic and additional literature necessary for mastering the discipline	
Main literature	1. Intelligent information systems and technologies / Yu.Yu. Gromov. - Tambov: Publishing house of FGBOU VPO "TSTU", 2013. - 244 p. - ISBN 978-5-8265-1178-7 2. Matveev, M. G. Models and methods of artificial intelligence. Application in the economy / M.G. Matveev; A.S. Sviridov; ON THE. Aleinikov. - Moscow: Finance and statistics, 2011. - 448 p. - ISBN 978-5-279-03279-2 3. Palmov, S.V. Intelligent systems and technologies Electronic resource: textbook / S.V. Palms. - Samara: Volga State University of Telecommunications and Informatics, 2017. - 195 p. - The book is in basic version of EBS IPRbooks.
additional literature	1. Averchenkov, V. I. The system of knowledge formation in the Internet environment: Monograph / Averchenkov V. I. - Bryansk: Bryansk State Technical University, 2012. - 181 p. - The book is in the basic version of EBS IPRbooks. - ISBN 5-89838-328-X 2. Bogomolova, M.A. Expert systems (engineering and design technology) Electronic resource : teaching aid / M.A. Bogomolov. - Samara: Volga State University of Telecommunications and Informatics, 2015. - 47 p. - The book is in the basic version of EBS IPRbooks. 3. Sotnik, S.L. Designing artificial intelligence systems Electronic resource: textbook / S.L. Centurion. - Designing artificial intelligence systems, 2021-01-23. - Moscow: Internet University of Information Technologies (INTUIT), 2016. - 228 p. - The book is in the basic version of EBS IPRbooks. 4. Yasnitsky, L. N. Introduction to artificial intelligence: a textbook for university students studying in mathematics. directions and specialties / L.N. Yasnitsky. - 3rd ed., erased. - M. : Academy, 2010. - 176 p. : ill. - (Higher professional education. Informatics and computer technology). - Bibliography: p. 170-173. - ISBN 978-5-7695-7042-1 5.