

	<p>ZAKOLDAEV, Danil A. Candidate of Technical Science</p>
<p>Research interests</p>	<ul style="list-style-type: none"> ✓ Blockchain technologies applications to ensure cyber security ✓ Features of ensuring information and functional security of cyber-physical systems ✓ Development and improvement of modern methods of detecting and resisting network attacks
<p>Features of the PhD program</p>	<ul style="list-style-type: none"> ✓ Both basic and applied research ✓ The possibility of the results approbation with industrial partners ✓ Interaction with foreign scientists and research centers ✓ Attracting graduate students to participate in research projects and experimental design works
<p>List of the supervisor's research projects (participation/supervision)</p>	<ul style="list-style-type: none"> ✓ Development of experimental samples of software components for cybersecurity of information technologies made ensured (participation) ✓ Development and experimental testing of practical solutions to ensure cybersecurity of banking organizations (participation) ✓ Development of a software and hardware complex for monitoring critical objects in conditions of data uncertainty and unreliability to prevent man-made threats (supervision) ✓ Research of quantum communication networks (participation)
<p>List of potential thesis topics</p>	<ul style="list-style-type: none"> ✓ Methods and algorithms for building stable distributed registries ✓ Methods and models for a comprehensive assessment of the security of cyber-physical systems ✓ Intrusion detection methods for dynamic wireless networks
<p>Publications in the last five years</p>	<p>113 (Scopus / Web of Science / RSCI)</p>
<p>Key publications</p>	<ol style="list-style-type: none"> 1. Shilov I., Zakoldaev D. Multidimensional Blockchain: Construction and Security Analysis//Principles and Practice of Blockchains, 2023, pp. 39-61 2. Vorobeva A., Khisaeva G., Zakoldaev D., Kotenko I. Detection of Business Email Compromise Attacks with Writing Style Analysis//Communications in Computer and Information Science, 2022, Vol. 1544, pp. 248-262 3. Shilov I., Zakoldaev D. Multidimensional blockchain security analysis//Lecture Notes in Networks and Systems, 2022, Vol. 235, pp. 911-924 4. Shukalov A.V., Zakoldaev D.A., Zharinov I.O., Zharinov O.O. Control, computing and communication in industrial

	<p>cyberphysical systems with feedback//Journal of Physics: Conference Series, 2021, Vol. 2094, No. 4, pp. 042036</p> <p>5. Chuprov S., Viksnin I., Kim I., Marinenkov E., Usova M., Lazarev E., Melnikov T., Zakoldaev D. Reputation and Trust Approach for Security and Safety Assurance in Intersection Management System//Energies, 2019, Vol. 12, No. 23, pp. 4527</p>
Key IPs	<ul style="list-style-type: none"> ✓ Computer program “Module for attack detection of compromising business correspondence in emails using natural language and machine learning processing” № 2021617783 dated of 19.05.2021 Vorobyova A.A., Zakoldayev D.A., Hisaeva G.F. ✓ Computer program “A software package for analyzing the texts of telephone conversations to identify leaks of insider information in investment consulting” № 2021617812 dated of 19.05.2021 Vorobyova A.A., Zakoldayev D.A., Gerasimov V.V., Li Y.V. ✓ Computer program “Network traffic classification program for detecting network distributed “denial-of-service attacks”” № 2020613345 dated of 13.03.2020 Zakoldayev D.A., Kuznetsov A.Y., Popov I.Y., Goroshkov V.A.
Supervisor’s specific requirements	<ul style="list-style-type: none"> ✓ Probability theory and mathematical statistics ✓ Programming (C/Python/...) ✓ Machine learning
Code of the subject area of the PhD program	<p>1.2.4 Cybersecurity</p> <p>2.3.6 Methods and Systems of Information Protection, Information Security</p>