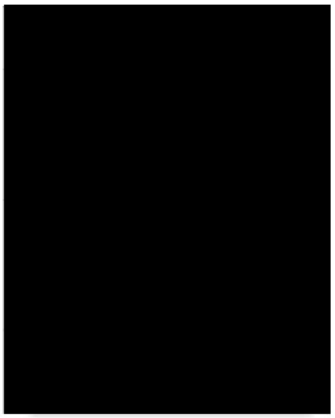
Dr. Oleg Illiashenko

PhD, Associate professor, International project manager
National aerospace university "Kharkiv Aviation Institute"
Department of Computer Systems, Networks and Cybersecurity



Education:

- MSc in Computer Engineering – National Aerospace University "KhAI" (Kharkiv, Ukraine) in 2012, honours degree;
- Specialist degree in Information and communication systems security – Kharkiv National University of Radio Electronics (Kharkiv, Ukraine) in 2013;
- PhD in Computer Systems and Components – National Technical University "Kharkiv Polytechnic Institute" (Kharkiv, Ukraine) in 2019. PhD thesis "Methods and means of the cybersecurity requirements compliance ensuring for programmable logic systems".

Working experience:

➢ *2019 – present:* Associate Professor at Department of computer systems, networks and cybersecurity of National Aerospace University "KhAI" https://csn.khai.edu/en/illiashenko-oleg-oleksandrovych, Kharkiv, Ukraine. Teaching the following full courses to national and foreign students: Formal methods of development and verification of IT products, Formal methods of safety and security analysis, Standardization and certification in safety and cybersecurity, Computer logic, Complex systems of software engineering (course project), Technologies of multi-service systems. Supervising BA and MSc students.

➢ *2021 – present:* Engineering manager at IT outsourcing industry, GlobalLogic Ukraine, embedded business unit. Managing projects in the Automotive domain with Tier 1s from Europe and Japan.

➢ *2012 – present:* international project management of R&D&E IT projects (under TEMPUS / Erasmus+/ Horizon2020 programmes) through the whole lifecycle starting from discovery / grant-writing and development of project documents through the whole implementation period finishing with financial auditing and project closure:

- Planning, budgeting, optimization, holding the financial side of the project under responsibility (project cost structure, invoicing, salary management);
- Requirements management, risk management;
- Monitoring and control, change management, process improvement;
- Direct negotiations with stakeholders, sub-contractors, and customers from UA and EU countries (Estonia, Finland, Greece, Italy, Portugal, Slovakia, Spain, Sweden, UK);
- People management, team motivation and retaining, hiring/firing;
- Troubleshooting, peacemaking, remote work.

The number of projects managed at one time: 3. Managing projects (incl. IT-products development) of 60+ members size. Domains: Safety-critical I&Cs (safety and cybersecurity issues), Embedded, Education & Training.

International academic, research and education projects (management and development roles) include:

1. TEMPUS «SAFEGUARD» National Safeware Engineering Network of Centers of Innovative Academia-Industry Handshaking (2010 – 2013) https://safeguard.csn.khai.edu/ ;

2. FP7 «KhAI-ERA» Integrating the National Aerospace University «KhAI» into European Research Area (2011 – 2015) https://cordis.europa.eu/project/id/294311 ;

3. TEMPUS «GREENCO» Green Computing and Communication (2012 – 2015 https://erasmusplus.org.ua/en/projects/tempus-iv/854-green-computing-communications.html https://csn.khai.edu/en/about-the-project-tempus-greenco ;

4. TEMPUS «SEREIN» Modernization of Postgraduate Studies on Security and Resilience for Human and Industry Related Domains (2013 – 2016) https://serein.eu.org/ ;

5. TEMPUS «CABRIOLET» Model-Oriented Approach and Intelligent Knowledge-Based System for Evolvable Academia-Industry Cooperation in Electronic and Computer Engineering (2014 – 2016) https://cabriolet.eu.org/ ;

6. ERASMUS+ «ALIOT» Internet of Things: Emerging Curriculum for Industry and Human Applications, (2016 – 2020) https://aliot.eu.org/ ;

7. Horizon2020 «ECHO» European network of Cybersecurity centers and competence Hub for Innovation and Operations 2018 – ongoing https://echonetwork.eu/ .

Industry research project (co-investigator role) include:

1. «Rogue Access Point Detection». R&D jointly with LLC Samsung Electronics Ukraine Company (2018 – 2019).

National Ukrainian (Ministry of Education and Science of Ukraine) research projects (co-investigator) include:

1. «Theoretical foundations, methods, and technologies ensuring the dependability of evolvable computerized infrastructures for aerospace and critical domains» (0108U010994), 2009-2011;

2. «Theoretical foundations, methods, and information technologies of critical application software and hardware complexes development in terms of resource constraints» (0112U001058), 2012-2014;

3. «Scientific foundations, methods and tools of green computing and communications» (0115U000996), 2015-2017;

4. «Sustainability methodology and information technologies for green computing and communications» (0118U003822), 2018 – 2020;

5. «Methods, software, hardware and information technologies for the development and modernization of dependable computer systems, networks, and IT infrastructures» (0117U005349), 2018 – 2020.

6. «Scientific foundations and methods of dependability ensuring for intelligent systems UAV fleets for monitoring potentially dangerous and military objects» (0121U112172), 2021 – ongoing.

7. «Methods, software and hardware tools and technologies to ensure the dependability of intelligent industrial Internet of Things systems» (0122U001065), 2022 – ongoing.

- *2018 – present:* head of cybersecurity division in Technical Committee TC185 "Industrial Automation" https://tk185.appau.org.ua/ and expert in safety division of TC 185. Working under the Ukrainian Research and Training Center of Standardization, Certification, and Quality (SE "UkrNDNC"). Results include the implementation in Ukraine of three international standards (supplied with developed guidelines and whitepapers for integrators, developers, and vendors): security for industrial automation and control systems (IEC 62443-2-1, IEC 62443-4-1) and functional safety of electrical/electronic/programmable electronic safety-related systems (IEC 61508-1, IEC 61508-4) in 2019.
- *2019 – present:* expert in the Kharkiv Regional Center Industry 4.0 as a part of the Association of Industrial Automation of Ukraine (APPAU) responsible for building cooperation and encouraging the innovation in Industry 4.0 – oriented R&D activities in the Kharkiv Region.
- *2019 – present:* Editorial committee member of the "Computer Systems and Information Technologies" scientific and technical journal http://csitjournal.khmnu.edu.ua/index.php/csit/about/editorialTeam .

➢ *2010 – present:* Publicity and information chair of the International Conference on DEpendable System, SERvices and Technologies DESSERT http://dessert.ieee.org.ua/dessert-2020/ .

➢ *2019 – present:* Program committee member of the International Scientific Conference Digital Transformation, Cybersecurity, and Resilience DIGILIENCE 2022 https://digilience.org/technical-program-committee/ .

➢ *2020 – present:* Program committee member of the International Conference on Multimedia Communications, Services & Security MCSS http://mcss2022.kt.agh.edu.pl/#pc .

Internships and academic exchange experience:

➢ *November-December 2011* - research internship at the Institute of Information Sciences and Technologies of the National Council for Research of Italy Istituto di Scienza e Tecnologie dell'Informazione "A. Faedo" (ISTI-CNR), Pisa, Italy. The direction of research is model-oriented development and verification of critical application systems, important for safety in the automatic train protection systems for railway transport. Working under supervision of Dr. Felicita Di Giandomenico, Dr. Stefania Gnesi, Dr. Mario Fusani. Technical report produced during the internship: https://openportal.isti.cnr.it/doc?id=people ::aa477886d6d728dc3f909ac1665d72e4

➢ *September-October 2012* - research internship at Tallinn University of Technology Tallinna Tehnikaülikool (TTÜ), Tallinn, Estonia. The direction of research is information security of embedded systems on programmable logic and the development of methods of testing embedded systems on software logic. Working under the supervision of Dr. Gert Jervan, Prof. Jüri Vain.

➢ *July 2019* - Internship at Newcastle University (Newcastle upon Tyne, UK) and Leeds Beckett University (Leeds, UK) to develop an Internet of Things curriculum for industry and society. Certified by a certificate.

Research results implementation certificates and statements:

- Istituto di Scienza e Tecnologie dell'Informazione "A. Faedo" (ISTI-CNR), Pisa, Italy

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- Leeds Beckett University (currently Leeds Metropolitan University), Leeds, UK

https://www.dropbox.com/s/j8hwbfxt4clxpjb/Illiashenko_certificate_LBU_2018.pdf?dl=0

- Newcastle University, Newcastle upon Tyne, UK

https://www.dropbox.com/s/cmef9fij0x5a8yy/Illiashenko_certificate_Newcastle%20University_2020.pdf?dl=0

- Tallinn Technical University TalTech, Tallinn, Estonia

https://www.dropbox.com/s/hdkz98686tld7cq/Illiashenko_certificate_TUT_2018.JPG?dl=0

Expertise:

- Verification & validation of safety-critical FPGA-based systems, and embedded systems;
- Cybersecurity assessment and assurance of embedded FPGA-based systems;
- Regulation and licensing of safety-critical industrial automation control systems (IACS).

Research interests:

- Safety and cybersecurity co-engineering;
- Dependability and resilience of embedded, cloud, and IoT, IIoT systems;
- Assessment, assurance, and standardization of critical IACS systems;
- Academia-industry cooperation.

Membership of Professional Bodies: Ukrainian Scientific IT Society member (since 2019) https://usit.eu.org/

Languages: Russian (native), Ukrainian (Native), English (Advanced).

Awards:

- The Best Researcher of National Aerospace University "Kharkiv Aviation Institute" in 2021;
- Prize of the President of Ukraine for Young Scientists in 2020. https://zakon.rada.gov.ua/laws/show/595/2020#Text
- Nominal scholarship of the Kharkiv regional state administration in the field of science in 2020 in the nomination of informatics and computer sciences in 2020. https://dniokh.gov.ua/?p=59345
- Scholarship of the V. Pinchuk Foundation Zavtra.UA in 2011;
- Scholarship of the Presidential Fund of Kuchma "Ukraine" in 2011.

Research dissemination:

- written 92 scientific papers and reports as lead author and co-author, including 15 monographs
  - Scopus profile - https://www.scopus.com/authid/detail.uri?authorId=55842633400
  - Google Scholar profile - https://scholar.google.com/citations?user=zwBQT00AAAAJ&hl=en&authuser=2
- speaker at 50+ conferences from 2011 to 2022 - https://www.researchgate.net/profile/Oleg-Illiashenko
- invited reviewer of MDPI Journals (2020–2022) – 37 verified reviews in: *Electronics, Sensors, Sustainability, Computers, Symmetry, Information, Energies, Applied Sciences, Multimedia Tools and Applications* - https://publons.com/researcher/1735506/oleg-olexandrovich-illiashenko/

The most important publications in English are as follows:

Journal Papers

1. Kharchenko, V., Fesenko, H., Illiashenko, O. Quality Models for Artificial Intelligence Systems: Characteristic-Based Approach and Application. *Sensors,* MDPI, **2022**, in print
2. Babeshko, I., Illiashenko, O., Kharchenko, V., Leontiev, K. Towards Trustworthy Safety Assessment by Providing Expert and Tool based XMECA Techniques. *Mathematics,* MDPI, **2022**, in print
3. Kliushnikov, I., Kharchenko, V., Fesenko, H., Leontiiev, K., Illiashenko, O. (**2022**). UAV Fleet with Battery Recharging for NPP Monitoring: Queuing System and Routing Based Reliability Models. In: Zamojski, W., Mazurkiewicz, J., Sugier, J., Walkowiak, T., Kacprzyk, J. (eds) New Advances in Dependability of Networks and Systems. DepCoS-RELCOMEX 2022. Lecture Notes in Networks and Systems, vol 484. Springer, Cham. https://doi.org/10.1007/978-3-031-06746-4_11
4. Makarichev, V.; Lukin, V.; Illiashenko, O.; Kharchenko, V. Digital Image Representation by Atomic Functions: The Compression and Protection of Data for Edge Computing in IoT Systems. *Sensors,* MDPI, **2022**, *22*, 3751. https://doi.org/10.3390/s22103751
5. Kharchenko, V.; Illiashenko, O.; Sklyar, V. Invariant-Based Safety Assessment of FPGA Projects: Conception and Technique. *Computers,* MDPI **2021**, *10*, 125. https://doi.org/10.3390/computers10100125
6. Illiashenko, O., Mygal, V., Mygal, G., Protasenko, O. (**2021**). A convergent approach to the viability of the dynamical systems: The cognitive value of complexity. International Journal of Safety and Security Engineering, Vol. 11, No. 6, pp. 713-719. https://doi.org/10.18280/ijsse.110612
7. Gordieiev, O., Kharchenko, V., Illiashenko, O., Morozova, O., Gasanov, M. (2021). Concept of using eye-tracking technology to assess and ensure cybersecurity, functional safety, and usability. International Journal of Safety and Security Engineering, Vol. 11, No. 4, pp. 361-367. https://doi.org/10.18280/ijsse.110409
8. Kliushnikov, I., Fesenko, H., Kharchenko, V., Illiashenko, O., Morozova, O. UAV fleet-based accident monitoring systems with automatic battery replacement systems: Algorithms for justifying composition and use planning. *International Journal of Safety and Security Engineering*, Vol. 11, No. 4, **2021**, pp. 319-328. https://doi.org/10.18280/ijsse.110404
9. Kharchenko, V., Kliushnikov, I., Fesenko, H., Illiashenko, O. Multi-UAV Mission Planning for Monitoring Critical Infrastructures Considering Failures and Cyberattacks. *Information & Security: An International Journal*. Vol. 49, **2021**. https://doi.org/10.11610/isij.4906
10. Babeshko, E., Illiashenko, O., Kharchenko, V., & Ruchkov, E. Safety and Reliability Assessment of NPP Instrumentation and Control Systems Considering Different Communication Architectures. *Nuclear and Radiation Safety*, №2(86), **2020**, pp. 38-43. https://doi.org/10.32918/nrs.2020.2(86).05

11. Perepelitsyn, A., Illiashenko, O., Duzhyi, V., & Kharchenko, V. Application of the FPGA Technology for the Development of Multi-Version Safety-Critical NPP Instrumentation and Control Systems. *Nuclear and Radiation Safety*, №2(86), **2020**, pp. 52-61. https://doi.org/10.32918/nrs.2020.2(86).07
12. Illiashenko O. O., Kolisnyk M. A., Strielkina A. E., Kotsiuba I. V., Kharchenko V. S. Conception and application of dependable Internet of Things based systems. *Radio Electronics, Computer Science, Control*. №4 (55). pp. 139-150, **2020**. https://doi.org/10.15588/1607-3274-2020-4-14
13. Kharchenko, V., Dotsenko, S., Ponochovnyi, S., Illiashenko, O. Cybernetic Approach to Developing Resilient Systems: Concept, Models and Application. *Information & Security: An International Journal* vol. 47, no. 1, **2020**. pp. 77-90. https://doi.org/10.11610/isij.4705
14. Kharchenko, V., Morozova, O., Illiashenko, O., Sokolov S. A Digital Twin for the Logistics System of a Manufacturing Enterprise Using Industrial IoT. *Information & Security: An International Journal* vol. 47, no. 1, **2020**, pp. 125-134. https://doi.org/10.11610/isij.4708
15. Halling, E., Vain, J., Boyarchuk, A., Illiashenko, O. Test scenario specification language for model-based testing. *International Journal of Computing*, 18(4), **2019**, pp. 408-421 https://doi.org/10.47839/ijc.18.4.1611
16. Dotsenko, S., Illiashenko, O., Kamenskyi, S., Kharchenko, V. Integrated Model of Knowledge Management for Security of Information Technologies: Standards ISO/IEC 15408 and ISO/IEC 18045. *Information & Security: An International Journal* vol. 43, no. 3, **2019**, pp. 305-317, https://doi.org/10.11610/isij.4323
17. S. Dotsenko, O. Illiashenko, S. Kamenskyi, V. Kharchenko, Integrated Security Management System for Enterprises in Industry 4.0. *Information & Security: An International Journal* vol. 43, no. 3, **2019**, pp. 294-304, https://doi.org/10.11610/isij.4322
18. Illiashenko, O., Kharchenko, V., Kor, A-L. Gap-analysis of Assurance Case-Based Cybersecurity Assessment: Technique and Case Study. *Advanced Information Systems,* **2018** №2(1), pp. 64–68, https://doi.org/10.20998/2522-9052.2018.1.12
19. Kharchenko, V., Illiashenko, O., Boyarchuk, A., Vain, J. "SEREIN" Project: Modernization of Postgraduate Studies on Security and Resilience for Human and Industry Related Domains. *Information & Security: An International Journal* vol. 35, no. 1, **2016**, pp. 29–48. http://procon.bg/system/files/3502_serein_project.pdf
20. Illiashenko, O. Choosing FMECA-Based Techniques and Tools for Safety Analysis of Critical Systems. *Information & Security: An International Journal* vol. 28, no.1, **2012**, pp. 275-285. http://procon.bg/system/files/28.22_Illiashenko_Babeshko.pdf

Books and Book Chapters

21. Dotsenko S., Illiashenko O., Budnichenko I., Kharchenko V. Knowledge Management Model-Based Approach to Profiling of Requirements: Case for Information Technologies Security Standards. In: T. Tagarev, K.T. Atanassov, V. Kharchenko, J. Kacprzyk (eds) *Digital Transformation, Cyber Security and Resilience of Modern Societies*, Springer International Publishing, Volume 84 of the series Studies in Big Data, **2021**, pp. 255-277. https://doi.org/10.1007/978-3-030-65722-2_16
22. Dotsenko S., Illiashenko O., Kamenskyi S., Kharchenko V. Embedding of Integrated Security Management System into Industry 4.0 Enterprise Management: Cybernetic Approach. In: T. Tagarev, K.T. Atanassov, V. Kharchenko, J. Kacprzyk (eds) *Digital Transformation, Cyber Security and Resilience of Modern Societies*, Springer International Publishing, Volume 84 of the series Studies in Big Data, **2021**, pp. 279-296. https://doi.org/10.1007/978-3-030-65722-2_17
23. Mygal V., Mygal G., Illiashenko O. Intelligent Decision Support – Cognitive Aspects. In: T. Tagarev, K.T. Atanassov, V. Kharchenko, J. Kacprzyk (eds) *Digital Transformation, Cyber Security and Resilience of Modern Societies*, Springer International Publishing, Volume 84 of the series Studies in Big Data, pp. 395-411, **2021**, https://doi.org/10.1007/978-3-030-65722-2_25
24. Babeshko, I., Duzhiy, V., Illiashenko, O., Siora, A., Sklyar, V., Panarin, A., Brezhniev, E., Diversity for NPP I&C Systems Safety and Cyber Security. In: Michael A. Yastrebenetsky, Vyacheslav S. Kharchenko, (eds) *Cyber Security and Safety of Nuclear Power Plant Instrumentation and Control Systems*, **2020**, IGI Global, pp. 239-288. https://doi.org/10.4018/978-1-7998-3277-5.ch010
https://www.dropbox.com/s/s7f798sdfww9llp/22_IGI%20Global.pdf?dl=0
25. Boyarchuk, A., Illiashenko, O., Kharchenko, V., Maevsky D., Phillips C., Vystorobska L., Plakhteev, A. Internet of Things for industry and human applications: ALIOT-based vertically integrated education. *Dependable IoT for Human and Industry: Modeling, Architecting, Implementation.* **2019**, River Publishers, pp. 535-559. https://www.riverpublishers.com/book_details.php?book_id=658
https://www.dropbox.com/s/4ti7x2cgxwyh5o6/23_RiverPublishers.pdf?dl=0
26. Waleed A., Kharchenko, V., Uzun, D., Illiashenko, O., Solovyov, O. PSMECA Analysis of IoT-Based Physical Security Systems. *Dependable IoT for Human and Industry: Modeling, Architecting, Implementation.* River Publishers, **2019**, pp.127-143. https://www.riverpublishers.com/book_details.php?book_id=658
https://www.dropbox.com/s/ubtj0k577wvpvoz/24_RiverPublishers.pdf?dl=0

27. Illiashenko O., Kharchenko, V. Concepts of Green IT Engineering: Taxonomy, Principles and Implementation. *Green IT Engineering: Concepts, Models, Complex Systems Architectures*, Springer International Publishing, Volume 74 of the series Studies in Systems, Decision and Control, **2016**, pp. 3-19. https://link.springer.com/chapter/10.1007%2F978-3-319-44162-7_1
28. Boyarchuk, A., Gorbenko, A., Illiashenko, O., Kharchenko, V., Phillips, C., Rucinski, A., et.al. *Internet of Things for Industry and Human Application. In Volumes 1-3. Volume 1. Fundamentals and Technologies*, V. S. Kharchenko (eds). Ministry of Education and Science of Ukraine, National Aerospace University KhAI, **2019**, 605 p. https://aliot.eu.org/wp-content/uploads/2020/07/ALIOT_Multi-Book_Volume1_web.pdf
29. Drozd, O., Illiashenko, O., Kharchenko, V., Sklyar, V., et. al. *Internet of Things for Industry and Human Application. In Volumes 1-3. Volume 2. Modelling and Development*. V. S. Kharchenko (eds). Ministry of Education and Science of Ukraine, National Aerospace University KhAI, **2019**, 547 p. https://aliot.eu.org/wp-content/uploads/2019/10/ALIOT_Multi-Book_Volume2_web.pdf
30. Babakov V., Biloborodova, T., Bojko, A., Brezhniev, E., Illiashenko, O., Kharchenko, V., et.al. *Internet of Things for Industry and Human Application. In Volumes 1-3. Volume 3. Assessment and Implementation*. V. S. Kharchenko (eds). Ministry of Education and Science of Ukraine, National Aerospace University KhAI, **2019,** 918 p. https://aliot.eu.org/wp-content/uploads/2020/01/ALIOT_Multi-Book_Volume3_web.pdf
31. Kharchenko, V., Skarga-Bandurova, I., Biloborodova, T., Uzun, D., Strielkina, A., Illiashenko, O. et.al. *Internet of Things for Healthcare Systems: Trainings*. V.S. Kharchenko (Eds.). Ministry of Education and Science of Ukraine, National Aerospace University "KhAI", Volodymyr Dahl East Ukrainian National University, **2019**, 92 p. https://aliot.eu.org/wp-content/uploads/2019/10/ALIOT_ITM4_IoT-for-Healthcare_web.pdf
32. Morshchavka S., Kudermetov, R., Skarga-Bandurova, I., Fesenko, H., Uzun, D., Illiashenko, O., *Internet of Things for Ecology, Safety and Security Monitoring Systems: Trainings*. V. S. Kharchenko and H. V. Fesenko (eds). Ministry of Education and Science of Ukraine, National Aerospace University "KhAI", **2019**, 122 p. https://aliot.eu.org/wp-content/uploads/2019/10/ALIOT_ITM5_IoT-for-Ec-Saf-SMS_web.pdf
33. Kondratenko, Yu., Kharchenko, V., Illiashenko, O. *Internet of Things for Industrial Systems: Trainings*. Ministry of Education and Science of Ukraine, Petro Mohyla Black Sea National University, Zaporizhzhia National Technical University, National Aerospace University "KhAI", Vasyl' Stus Donetsk National University, **2019**,143 p. https://aliot.eu.org/wp-content/uploads/2019/10/ALIOT_ITM6_IoT-for-Ind-Sys_web.pdf
34. Boyarchuk, A., Chemeris, A., Illiashenko, O., Kharchenko, V., Kolisnyk, M., Morozova, O., Pevnev, Y., et.al. *Internet of Things for Industry and Human Application. Fundamentals of Internet of Things*. V.S. Kharchenko (eds). – Ministry of Education and Science of Ukraine, National Aerospace University KhAI, **2019**, 95 p. https://aliot.eu.org/wp-content/uploads/2020/07/ALIOT_MC1_Fund-of-IoT_web.pdf

Conference Proceedings

35. Illiashenko, O., Kharchenko, V., Morozova, O., Phillips, C., Internet of Things for Human and Industry Application: ALIOT Project and R&D Issues. *PCI 2020: 24th Pan-Hellenic Conference on Informatics*, November 20 - 22, **2020** Athens, Greece, Association for Computing Machinery New York, NY, United States, pp. 350-353. https://dl.acm.org/doi/10.1145/3437120.3437338 https://www.dropbox.com/s/j2rphq8nqhjac59/33_ACM.pdf?dl=0
36. Potii O., Tsyplinskyi Y., Illiashenko O., Kharchenko V. Criticality Assessment of Critical Information Infrastructure Objects: A Category Based Methodology and Ukrainian Experience. In: Dziech A., Mees W., Czyżewski A. (eds) *Multimedia Communications, Services and Security. MCSS 2020*. Communications in Computer and Information Science, vol 1284, **2020**, pp 78-97, Springer, Cham. https://doi.org/10.1007/978-3-030-59000-0_7
37. Kharchenko, V., Illiashenko, O., Morozova, O., Sokolov, S. Combination of Digital Twin and Artificial Intelligence in Manufacturing Using Industrial IoT. *2020 IEEE 11th International Conference on Dependable Systems, Services and Technologies (DESSERT)*, Kyiv, Ukraine, May 14-18, **2020**, pp. 196-201. https://10.1109/DESSERT50317.2020.9125038
38. Dotsenko, S., Fesenko, H., Illiashenko, O., Kharchenko, V., Moiseenko, V., Yermolenko, L. Integration of Security, Functional and Ecology Safety Management Systems: Concept and Industrial Case. *2020 IEEE 11th International Conference on Dependable Systems, Services and Technologies (DESSERT)*, Kyiv, Ukraine, May 14-18, **2020**, pp. 470-474, https://10.1109/DESSERT50317.2020.9125010
39. Illiashenko, O., Pevnev, V. Development of large numbers factorization algorithm. *The 10th IEEE International* Conference *on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2019)*, Metz, France, **2019**, pp. 1078-1081. https://doi.org/10.1109/IDAACS.2019.8924341
40. Rusnak, P., Sedlacek, P., Forgac, A., Illiashenko, O., Kharchenko, V. Structure Function Based Methods in Evaluation of Availability of Healthcare system, *10th International Conference on Dependable Systems, Services and Technologies (DESSERT)*, Leeds, UK, **2019**, pp. 13-18. https://doi.org/10.1109/DESSERT.2019.8770009
41. Kharchenko, V., Dotsenko, S., Illiashenko, O., Kamenskyi, S. Integrated Cyber Safety & Security Management System: Industry 4.0 Issue. *10th International Conference on Dependable Systems, Services and Technologies (DESSERT)*, Leeds, UK, **2019**, pp. 197-201. https://doi.org/10.1109/DESSERT.2019.8770010

42. Strielkina, A., Illiashenko, O., Zhydenko, M., Uzun, D. Cybersecurity of Healthcare IoT-Based Systems: Regulation and Case-Oriented Assessment. *9th IEEE International Conference on Dependable Systems, Services and Technologies (DESSERT'2018),* Kiev, Ukraine, **2018**, pp. 67–73. https://doi.org/10.1109/DESSERT.2018.8409101

43. Vlasov, Y., Illiashenko, O., Uzun, D., Haimanov, O. Prototyping Tools for IoT Systems Based on Virtualization Techniques. *9th IEEE International Conference on Dependable Systems, Services and Technologies (DESSERT'2018),* Kiev, Ukraine, **2018**. pp. 87–92. https://doi.org/10.1109/DESSERT.2018.8409105

44. Medvediev, I., Illiashenko, O., Uzun, D., Strielkina, A. IoT Solutions for Health Monitoring: Analysis and Case Study. *9th IEEE International Conference on Dependable Systems, Services and Technologies (DESSERT'2018)*. Kiev, Ukraine, 2018. pp. 163–168. https://doi.org/10.1109/DESSERT.2018.8409120

45. Kharchenko, V., Illiashenko, O., Boyarchuk, A., Sklyar, V., Phillips, C. Emerging Curriculum for Industry and Human Applications In Internet Of Things. *IEEE 9th International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications, IDAACS 2017*. Bucharest, Romania, IEEE, **2017**. pp. 918–922. https://doi.org/10.1109/IDAACS.2017.8095220

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I, the undersigned, declare that all information provided by me in this application (or any other accompanying or required document) is correct, accurate and complete to the best of my knowledge, aware of the criminal penalties that the candidate may incur for false declarations.

June 8th, 2022 [redacted] OLEG ILLIASHENKO