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PROFESSIONAL AND ACADEMIC POSITIONS:

2023 (January) – to current Professor, Department of Software Engineering and Management Intelligent Technologies
Deputy director of Educational and Scientific Institute of Computer Science and Information Technologies, National Technical University "Kharkiv Polytechnic Institute";

2023 (June) –2023 (January) Professor, Department of Cybersecurity, National Technical University "Kharkiv Polytechnic Institute";

2018-2023 (June) Director of Educational and Scientific Institute of International Education (Faculty of International Education).
Associate Professor (part-time), Micro and nanoelectronics department (physical materials science for electronics and solar energy)

2016-2018 Dean of the Faculty of Physics and Technology. Associate Professor of the Department of Physical Materials Science for Electronics and Solar Energy

2016 - 2016 (end of the year) Deputy Dean of the Faculty of Physics and Technology. Associate Professor of the Department of Physical Materials Science for Electronics and Solar Energy

2015 – 2016 Associate Professor of the Department of Physical Materials Science for Electronics and Solar Energy

2014 (October) - 2015 Senior Lecturer at the Department of Physical Materials Science for Electronics and Solar Energy

2008-2014 Junior Researcher at the Department of Physical Materials Science for Electronics and Solar Energy, Faculty of Physics and Technology, NTU "KhPI"

EDUCATION:

Candidate of Technical Sciences (Physics of the solid state) (January 2014) National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine

Master's Degree (Physical materials science, 2 years) (Honors Diploma, July, 2005). National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine
Qualification: Research physics engineer

Bachelor's Degree (Engineering materials science, 4 years) Honors Diploma, July, 2003). National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine.
Qualification: Bachelor of Engineering Materials Science

COURSES TAUGHT:

Database design and development – Software Engineering and Management Intelligent Technologies Department

Physical bases of technical intelligence means – Cybersecurity department

Protecting facilities in critical infrastructure - Cybersecurity department

Basics of cryptographic protection - Cybersecurity department

FIELDS OF RESEARCH INTEREST:

- Databases, Data Warehouses;
- computer modelling packages for physical and technological processes;
- Enterprise Architecture, Software Architecture.

SUMMARY OF CAREER ACHIEVEMENTS

– ORCID: <https://orcid.org/0000-0002-5435-0271>

– [Research papers in Scopus](#)

– [Research papers in Web of Science](#)

- On the basis of the decision of the Certification Board of the Ministry of Education and Science of Ukraine, was awarded the academic title of Associate Professor of the Department of Physical Materials Science for Electronics and Solar Energy. Certificate of Associate Professor АД No. 006879 dated 09 February 2021.
- in January 2019, received a certificate (Upper - Intermediate (B2)) of English School of Tomorrow No. 106 UA (Test ID: H11106UA).
- from 2009 to 2011 participated as a performer (Employer number 21333) in the International project of the Ukrainian Science and Technology Centre Project STCU No. 4301 "The development of laboratory technology for preparation of flexible solar cells on the CdTe base".
- from April 2019 to July 2023 was the Chairman of Section 10 "International Education in Ukraine: "Tendencies and Innovations" of the International Scientific and Theoretical Conference of Students and Postgraduates "Ukraine and the World: Humanitarian and Technical Elite and Social Progress" (Order No. 600 OD of 23 November 2018).
- participated in the International internship as an performer (Employer Number 21333) of the International Project of the Ukrainian Science and Technology Centre Project STCU No 4301 "The development of laboratory technology for preparation of flexible solar cells on the CdTe base".
- In 2018, was a Member of the Organising Committee of the XXVI International Scientific and Practical Conference "Information Technologies: Science, Engineering, Technology, Education, Health" (MicroCAD - 2018) (Order No. 96 of the Executive Board of 20 February 2018).

RELATED PUBLICATIONS:

Books

- Євсєєв С.П., Дженюк Н.В., Охрименко М.Ю., Головашич С.О., Кудій Д.А. Цифрова схемотехніка та архітектура мікропроцесорів. Навчальний посібник. Львів: “Новий Світ–2000”, 2023. –513 с.
- Євсєєв С.П., Дженюк Н.В., Толкачов М.Ю., Касілов О.В., Король О.Г., Кудій Д.А. Комп’ютерні мережі. Книга 2. Архітектура комп’ютерів. Навчальний посібник. Харків: НТУ «ХПІ», 2023. – 570 с.
- Методичні вказівки до лабораторних робіт з дисципліни «Теорія електричних кіл» для студентів прискореної форми навчання. Частина 1 / Уклад.: Р.В. Зайцев, Г.А. Дроздова, Д.А. Кудій. – Харків: НТУ «ХПІ», 2019. – 47 с.
<http://repository.kpi.kharkov.ua/handle/KhPI-Press/40521>.
- Методичні вказівки до лабораторних робіт з дисципліни «Теорія електричних кіл» для студентів прискореної форми навчання. Частина 2 / Уклад.: Р.В. Зайцев, Г.А. Дроздова, Д.А. Кудій. – Харків: НТУ «ХПІ», 2019. – 55 с.
<http://repository.kpi.kharkov.ua/handle/KhPI-Press/40522>.
- Методичні вказівки до лабораторних робіт з дисципліни «Вакуумна техніка» / Уклад.: М.В. Кіріченко, Р.В. Зайцев, Д.А. Кудій, А.М. Дроздов. – Харків: НТУ «ХПІ», 2020. – 51 с.
<http://repository.kpi.kharkov.ua/handle/KhPI-Press/47910>

Papers

- Security Models and Methods of Socio-Cyberphysical Systems /Aleksandr Serkov, Alla Jammine, Dmytro Kudii, Nataliia Dzheniuk, Nait-Abdesselam Farid, Bogdan Lazurenko // ID105, Proceeding of IEEE 2023, 7th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT 2023) (October 26 - 28, 2023, Ankara, Turkey). (SCOPUS).
- Development of a method for calculating statistical characteristics of the input material flow of a transport conveyor / Oleh Pihnastyi, Dmytro Kudii // Eastern-European Journal of Enterprise Technologies, 5(2 (125), 87 – 96. (2023).
- Khrypunova A. The optical and electrical properties ITO thin film / A. Khrypunova, D. Kudii, I. Khrypunova // 018 IEEE 3rd International Conference on Intelligent Energy and Power Systems, IEPS 2018 – Proceedings 2018. – January, P. 229 - 234.
- Sokol E. The development of technology CdTe and CdS layers for thin-film solar cells creation / E. Sokol, A. Khrypunova, D. Kudii, M. Khrypunov // 2018 IEEE 3rd International Conference on Intelligent Energy and Power Systems, IEPS 2018 – Proceedings 2018. - January, P. 224 - 228.
- Khrypunov G. The optimization of technology ITO layers for thin-film solar cells / G. Khrypunov, E. Sokol, D. Kudii, M. Khrypunov // 14th International Conference on Advanced Trends in Radioelectronics, Telecommunications and Computer Engineering, TCSET 2018 – Proceedings, 2018 - April, P. 393 – 398.
- Kudii D.A. Physical and technological foundations of the «chloride» treatment of cadmium telluride layers for thin-film photoelectric converters / D.A. Kudii, M.G. Khrypunov, R.V. Zaitsev, A.L. Khrypunova // Journal of Nano- and Electronic Physics, Volume 10, Issue 3, 2018, P. 030071 – 030077.
- Khrypunov M.G. Amplitude-time characteristics of switching in thin films of cadmium telluride / M.G. Khrypunov, R.V. Zaitsev, D.A. Kudii, A.L. Khrypunova // Journal of Nano- and Electronic Physics, Volume 10, Issue 1, 2018, P. 010161 – 010165.