Name Andrii Kopp

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**Nationality** Ukraine

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# **PROFESSIONAL AND ACADEMIC POSITIONS:**

2021 to current	Associate Professor, Department of Software Engineering and Management
	Intelligent Technologies (before 2022 – Department of Software Engineering and
	Management Information Technologies), Educational and Scientific Institute of
	Computer Science and Information Technologies (before 2022 – Faculty of Computer
	Science and Software Engineering), National Technical University "Kharkiv
	Polytechnic Institute";
Associate Professor (part-time), Department of Information Systems and Technologies, Educational	
	and Scientific Institute of Computer Science and Information Technologies, National
	Technical University "Kharkiv Polytechnic Institute"
2021 - 2022	Associate Professor (part-time), Department of Cybersecurity and Information
	Technologies, Faculty of Information Technologies, Simon Kuznets Kharkiv
	National University of Economics
2020 - 2021	Senior Instructor, Department of Software Engineering and Management Information
	Technologies, Faculty of Computer Science and Software Engineering, National
	Technical University "Kharkiv Polytechnic Institute"
2016 - 2020	Assistant, Department of Software Engineering and Management Information
	Technologies, Faculty of Computer Science and Software Engineering, National
	Technical University "Kharkiv Polytechnic Institute"
2016 - 2020	Ph.D. Student, Department of Software Engineering and Management Information
	Technologies, Faculty of Computer Science and Software Engineering, National
	Technical University "Kharkiv Polytechnic Institute"

## **EDUCATION:**

2016 (Sept.)

2015 - 2016

Ph.D. (Computer Science) (September, 2020) National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine
Specialization: 122 – Computer Science (12 – Information Technologies)

Technical University "Kharkiv Polytechnic Institute" Java Software Engineer, EPAM Systems Ukraine

Master's Degree (Information Management Systems and Technologies, 2 years, Honors Diploma) (June, 2016) National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine Concentrations: Information Management Systems Analyst

Trainee Instructor, Department of Software Engineering and Management

Information, Faculty of Computer Science and Software Engineering, National

Bachelor's Degree (Computer Science, 4 years) (June, 2014) National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine Concentrations: Bachelor in Computer Science

# **COURSES TAUGHT**

Extensive teaching at university levels: Bachelor/Master:

- Databases (in two parts) (lectures and lab classes in English and Ukrainian at Bachelor level)
- Data Models and Structures (lectures and lab classes in English and Ukrainian at Bachelor level)
- Design and Development of Databases (lectures and lab classes in English and Ukrainian at Bachelor level)
- Startup Business Models (lectures and lab classes in English and Ukrainian at Bachelor level)
- Startup Business Analytics (lectures and lab classes in English and Ukrainian at Bachelor level)

#### FIELDS OF RESEARCH INTEREST:

- Business Process Management
- Enterprise Architecture, Software Architecture
- Business Intelligence
- Databases, Data Warehouses

## **SUMMARY OF CAREER ACHIEVEMENTS**

- Prepared and published more than 60 research papers and textbooks (Google Scholar: <a href="https://scholar.google.com/citations?user=B8fggLEAAAAJ">https://scholar.google.com/citations?user=B8fggLEAAAAJ</a>; ORCID: <a href="https://orcid.org/0000-0002-3189-5623">https://orcid.org/0000-0002-3189-5623</a>; Scopus: <a href="https://www.webofscience.com/authid/detail.uri?authorId=57202887287">https://www.webofscience.com/wos/author/record/T-4283-2018</a>)
- Guarantor of the professionally-oriented educational programme "Computer Science and Intelligent Systems", first (bachelor's) level
- By the decision of the Academic Council of NTU "KhPI" dated 28.10.2022, awarded the academic title of Associate Professor of the Department of Software Engineering and Management Intelligent Technologies
- Scientific Secretary of the Specialized Academic Council D 64.050.20 of NTU "KhPI" (http://blogs.kpi.kharkov.ua/v2/vr/d-64-050-20)

#### **PROFESSIONAL MEMBERSHIPS:**

- Full member of the Public Organization "Ukrainian Scientific and Educational IT Society" (2019 to present, certificate №19-00020FS), Ukraine

## **RELATED PUBLICATIONS**

#### **Books**

- Orlovskyi, D., Kopp, A. An Information Technology for Detection and Fixing Effort Estimation of Business Process Model Structuredness Errors. Communications in Computer and Information Science, 2022, 1698, pp. 127-152. <a href="https://link.springer.com/chapter/10.1007/978-3-031-20834-8\_7">https://link.springer.com/chapter/10.1007/978-3-031-20834-8\_7</a>
- Orlovskyi, D., Kopp, A. An Approach to Business Process Model Structuredness Analysis: Errors Detection and Cost-Saving Estimation. Communications in Computer and Information Science, 2022, 1635, pp. 23-39. https://link.springer.com/chapter/10.1007/978-3-031-14841-5\_2
- Kopp, A., Orlovskyi, D. Towards the Method and Information Technology for Evaluation of Business Process Model Quality. In: Bollin A. et al. (eds) ICTERI 2020. Communications in Computer and Information Science, 2021, 1308, pp. 93-118.
   <a href="https://link.springer.com/chapter/10.1007/978-3-030-77592-6\_5">https://link.springer.com/chapter/10.1007/978-3-030-77592-6\_5</a>
- Kopp, A., Orlovskyi, D. Intelligent Support of the Business Process Model Analysis and Improvement Method. In: Ermolayev V. et al. (eds) ICTERI 2019. Communications in Computer and Information Science, 2020, 1175, pp. 111–135. <a href="https://link.springer.com/chapter/10.1007/978-3-030-39459-2">https://link.springer.com/chapter/10.1007/978-3-030-39459-2</a> 6

## **Papers**

- Kopp, A., Orlovskyi, D. Towards the Software Solution for Complexity Minimization of Business Process Models to Improve Understandability. CEUR Workshop Proceedings, 2023, 3426, pp. 274-286. https://ceur-ws.org/Vol-3426/paper22.pdf
- Kopp, A., Orlovskyi, D. Computational Technology and Software Tool for Translation of Business Rules into Database Creation Scripts. CEUR Workshop Proceedings, 2023, 3396, pp. 531-545. <a href="https://ceur-ws.org/Vol-3396/paper40.pdf">https://ceur-ws.org/Vol-3396/paper40.pdf</a>
- Kopp, A., Orlovskyi, D. Towards Intelligent Technology for Error Detection and Quality Evaluation of Business Process Models. CEUR Workshop Proceedings, 2023, 3373, pp. 1-14. https://ceur-ws.org/Vol-3373/keynote1.pdf
- Kopp, A., Orlovskyi, D. Towards the Enterprise Architecture Web Mining Approach and Software Tool. CEUR Workshop Proceedings, 2023, 3347, pp. 256-268. <a href="https://ceur-ws.org/Vol-3347/Paper\_22.pdf">https://ceur-ws.org/Vol-3347/Paper\_22.pdf</a>
- Kopp, A., Orlovskyi, D., Orekhov, S. Towards Understandability Evaluation of Business Process Models using Activity Textual Analysis. CEUR Workshop Proceedings, 2022, 3312, pp. 200-211. <a href="https://ceur-ws.org/Vol-3312/paper17.pdf">https://ceur-ws.org/Vol-3312/paper17.pdf</a>
- Kopp, A., Orlovskyi, D. An Approach and a Software Tool for Automatic Source Code Generation driven by Business Rules. CEUR Workshop Proceedings, 2022, 3171, pp. 338-353. <a href="http://ceur-ws.org/Vol-3171/paper28.pdf">http://ceur-ws.org/Vol-3171/paper28.pdf</a>
- Kopp, A., Orlovskyi, D. Towards the Tokenization of Business Process Models using the Blockchain Technology and Smart Contracts. CEUR Workshop Proceedings, 2022, 3137, pp. 274-287. <a href="http://ceur-ws.org/Vol-3137/paper23.pdf">http://ceur-ws.org/Vol-3137/paper23.pdf</a>
- Kopp, A., Orlovskyi, D., Orekhov, S. Towards an Approach to Organization of Decentralized Business Process Model Repository. CEUR Workshop Proceedings, 2022, 3132, pp. 186-197. <a href="http://ceur-ws.org/Vol-3132/Paper\_18.pdf">http://ceur-ws.org/Vol-3132/Paper\_18.pdf</a>
- Kopp, A., Orlovskyi, D., Orekhov, S. An Approach and Software Prototype for Translation of Natural Language Business Rules into Database Structure. CEUR Workshop Proceedings, 2021, 2870, pp. 1274-1291. http://ceur-ws.org/Vol-2870/paper94.pdf
- Orlovskyi, D., Kopp, A., Bilous I. An Approach to Development of Interactive Adaptive Software Tool to Support Data Analysis Activity. CEUR Workshop Proceedings, 2021, 2864, pp. 272-286. <a href="http://ceur-ws.org/Vol-2864/paper24.pdf">http://ceur-ws.org/Vol-2864/paper24.pdf</a>
- Orlovskyi, D., Kopp, A. A business intelligence dashboard design approach to improve data analytics and decision making. CEUR Workshop Proceedings, 2021, 2833, pp. 48–59. <a href="http://ceur-ws.org/Vol-2833/Paper\_5.pdf">http://ceur-ws.org/Vol-2833/Paper\_5.pdf</a>
- Kopp, A., Orlovskyi, D. Towards the generalized criterion for evaluation of business process model quality. CEUR Workshop Proceedings, 2020, 2791, pp. 19–30. <a href="http://ceur-ws.org/Vol-2791/2020200019.pdf">http://ceur-ws.org/Vol-2791/2020200019.pdf</a>
- Orlovskyi, D., Kopp, A. Enterprise Architecture Modeling Support based on Data Extraction from Business Process Models. CEUR Workshop Proceedings, 2020, 2608, pp. 499–513. <a href="http://ceur-ws.org/Vol-2608/paper38.pdf">http://ceur-ws.org/Vol-2608/paper38.pdf</a>
- Kopp, A., Orlovskyi, D. A method for business process model analysis and improvement. CEUR Workshop Proceedings, 2019, 2403. <a href="http://ceur-ws.org/Vol-2403/paper1.pdf">http://ceur-ws.org/Vol-2403/paper1.pdf</a>