

## LIST OF MAIN PUBLICATIONS

Prof. Yuriy P. Kondratenko

### - Books:

1. *Internet of Things for Industry and Human Application. In Volumes 1-3. Volume 2. Modelling and Development.* / O.V.Drozd, O.O.Illiashenko, ..., Kondratenko Y.P. et al, Ministry of Education and Science of Ukraine, National Aerospace University KhAI, 2019.
2. *Internet of Things for Industry and Human Application. In Volumes 1-3. Volume 3. Assessment and Implementation.* / R.M.Babakov, T.O.Biloborodova, ..., Kondratenko Y.P. et al, Ministry of Education and Science of Ukraine, National Aerospace University KhAI, 2019.
3. *System technologies for modeling complex processes.* / Andreev M.V., Atamanyuk I.P., ..., Kondratenko Y.P. et al, Monograph. Prof. A.I.Mikhalyov (Ed.). Dnipro: NMetAU-IVK "System Technologies", 2016.
4. *Models of cooperation between universities and IT companies: Decision-making systems on fuzzy logic.* / Kondratenko Y.P., Kondratenko G.V., Sidenko I.V., Kharchenko V.S., Monograph. Yu.P.Kondratenko (Ed.), Kharkiv: MES of Ukraine, PM BSSU, NASU "KhAI", 2015 (in Ukrainian).
5. *Green IT engineering. Volume 2. Systems, industry, society.* / Kharchenko V.S., Bazhanov A.G., ..., Kondratenko Y.P. et al, Kharkiv: N.E. Zhukovsky National Aerospace University, 2014 (in Ukrainian).
6. *Explorando Nuevos Mercados: Ucrania.* / Kondratenko Y., Jaume Gil Lafuente, Klymenko L., Emilio Vizuete Luciano, et al, Monograph. Directora A.M. Gil-Lafuente. RACEF: Real Academia de Ciencias Economicas y Financieras, Barcelona, Spain, 2012 (in Spanish, in Ukrainian).
7. *Behavioral synthesis of digital devices in the environment Active-HDL.* / Kondratenko Y.P., Sidorenko S.A., Pidopryhora D.M., Mykolaiv: Mykolaiv Branch of National University "Kyiv-Mohyla Academy", Publishing House, 2002 (in Ukrainian).
8. *VHDL models for designing digital devices.* / Kondratenko Y.P., Sidorenko S.A., Pidopryhora D.M. Mykolaiv: Ukrainian State Maritime Technical University, 2002 (in Ukrainian).
9. *Verilog-HDL for modeling and synthesis of digital electronic circuits.* / Kondratenko Y.P., Mokhor V.V., Sidorenko S.A., Mykolaiv: Mykolaiv State University of Human Sciences, Publishing House, 2002 (in Russian).
10. *Adaptive Robotics Systems.* / Kondratenko Y.P., Tkachenko A.N. Mykolaiv, VSNTO, 1985 (in Russian).
11. *Dynamics of elements and systems of automatic regulation of refrigeration units.* / Kondratenko Y.P., Mykolaiv: Mykolaiv Shipbuilding Institute, 1984 (in Russian).

### - Edited books (Author and Editor):

1. *Artificial Intelligence in Control and Decision-making Systems. Dedicated to Professor Janusz Kacprzyk.* / Yuriy P. Kondratenko, Vladik Kreinovich, Witold Pedrycz, Arkadii A. Chikrii, Anna Maria Gil-Lafuente (Eds). Studies in Computation Intelligence, Cham: Springer Nature Switzerland AG, 2022 (in print).
2. *Recent Developments in Automatic Control Systems.* / Kondratenko Y.P., Kuntsevich V.M., Chikrii A.A., Gubarev V.F. (Eds). Series in Automation, Control and Robotics. River Publishers: Gistrup, 2022 (in print).
3. *Advanced Control Systems: Theory and Applications.* / Kondratenko Y.P., Kuntsevich V.M., Chikrii A.A., Gubarev V.F. (Eds). Series in Automation, Control and Robotics. River Publishers: Gistrup, 2021.
4. *Information-Communication Technologies & Embedded Systems.* / Kondratenko, Y., Kreinovich, V., Simon, D., Krainyk, Y. (Eds). Proceedings of the 2nd International Workshop on Information-Communication Technologies & Embedded Systems (ICTES 2020). Mykolaiv, Ukraine (online), November 12, 2020. CEUR Workshop Proceedings, Vol. 2762, 2020.
5. *Advanced Control Techniques in Complex Engineering Systems: Theory and Applications. Dedicated to Professor Vsevolod M. Kuntsevich.* / Yuriy P. Kondratenko, Arkadii A. Chikrii, Vyacheslav F. Gubarev, Janusz Kacprzyk (Eds). Studies in Systems, Decision and Control, Vol. 203. Cham: Springer Nature Switzerland AG, 2019.
6. *Internet of Things for Industrial Systems: Training.* / Yu.P. Kondratenko, V.S. Kharchenko (Eds). Ministry of Education and Science of Ukraine, Petro Mohyla Black Sea National University, Zaporizhzhia National Technical University, National Aerospace University "KhAI", 2019 (in Ukrainian).
7. *Green IT Engineering: Components, Networks and Systems Implementation.* / Kondratenko Y., Kharchenko V., Kacprzyk J. (Eds). Studies in Systems, Decision and Control, Vol. 74, Springer, Cham, 2019.
8. *Recent Developments in Data Science and Intelligent Analysis of Information.* / Chertov, O., Mylovanov, T., Kondratenko, Y., Kacprzyk, J., Kreinovich, V., Stefanuk, V. (Eds). Proceedings of the XVIII International

- Conference on Data Science and Intelligent Analysis of Information, June 4–7, 2018, Kyiv, Ukraine. ICDSIAI 2018, Advances in Intelligent Systems and Computing, Vol. 836, Springer International Publishing, 2019.
9. *Complex Systems: Solutions and Challenges in Economics, Management and Engineering, Dedicated to Professor Jaime Gil Aluja.* / Christian Berger-Vachon, Anna María Gil Lafuente, Janusz Kacprzyk, Yuriy Kondratenko, José M. Merigó, Carlo Francesco Morabito (Eds). Studies in Systems, Decision and Control, Vol. 125, Berlin, Heidelberg: Springer International Publishing, 2018.
  10. *Control Systems: Theory and Applications.* / Kuntsevich, V.M., Gubarev, V.F., Kondratenko, Y.P., Lebedev, D.V., Lysenko, V.P. (Eds). Book Series in Automation, Control and Robotics, River Publishers, Gistrup, Delft, 2018.
  11. *Green IT Engineering: Components, Networks and Systems Implementation.* / Kondratenko Y., Kharchenko V., Kacprzyk J. (Eds). Studies in Systems, Decision and Control, Vol. 74, Springer, Cham, 2017.
  12. *Green IT Engineering: Concepts, Models, Complex Systems Architectures.* / Kondratenko Y., Kharchenko V., Kacprzyk J. (Eds). Studies in Systems, Decision and Control, Vol. 74, Springer, Cham, 2017.
  13. *University-industrial cooperation. Volume 1. Model-oriented approach.* / Kondratenko Y., Kharchenko V. (Eds). Yuston, Kyiv, 2017 (in Ukrainian).
  14. *University-industrial cooperation. Volume 2. Intellectual knowledge-oriented decision support system.* / Kondratenko Y., Kharchenko V. (Eds). Yuston, Kyiv, 2017 (in Ukrainian).
  15. Kondratenko Y., Kharchenko V. (Eds). *University-industrial cooperation. Volume 4. Capacity building. Trainings.* / Kondratenko Y., Kharchenko V. (Eds). Yuston, Kyiv, 2017 (in Ukrainian).
  16. *Advances in Intelligent Robotics and Collaboration Automation.* / Kondratenko Yuriy, Duro Richard (Eds). Series on Automation, Control and Robotics, River Publishers, Denmark, 2015.

- **Articles in journals, chapters in edited volumes, conference proceedings, etc. (2018-2022)**

**2022**

- [1] Kondratenko, Y.; Atamanyuk, I.; Sidenko, I.; Kondratenko, G.; Sichevskiy, S. Machine Learning Techniques for Increasing Efficiency of the Robot's Sensor and Control Information Processing. *Sensors* 2022, Vol. 22, 1062, pp. 1-32. <https://doi.org/10.3390/s22031062>

**2021**

- [2] Sheremet, A., Kondratenko, Y., Sidenko, I., Kondratenko, G. Diagnosis of Lung Disease Based on Medical Images Using Artificial Neural Networks. 2021 IEEE 3rd Ukraine Conference on Electrical and Computer Engineering, UKRCON 2021 - Proceedings, 2021, стр. 561–566.
- [3] Kondratenko, Y., Gerasin, O., Kozlov, O., Topalov, A., Kilimanov, B. Inspection mobile robot's control system with remote IoT-based data transmission. *Journal of Mobile Multimedia*, Vol. 17, Is. 4. pp. 499-522, 2021. DOI: 10.13052/jmm1550-4646.1742
- [4] Tetyana Misiuk, Yuriy Kondratenko, Ievgen Sidenko, Galyna Kondratenko. Computer Vision Mobile System for Education Using Augmented Reality Technology. *Journal of Mobile Multimedia*, Vol. 17, Is. 4. pp. 555-576, 2021. DOI: 10.13052/jmm1550-4646.1744
- [5] Kondratenko Y.P., Mokhor V.V. Guest Editorial Column: Special Issue of Journal of Mobile Multimedia “Mobile Communication and Computing for Internet of Things and Industrial Automation”. Editorial. In: *Journal of Mobile Multimedia. Special issue “Mobile Communication and Computing for Internet of Things and Industrial Automation”*, Vol. 17, Is. 4. pp. v-vii, 2021.
- [6] Striuk O., Kondratenko Y., Generative Adversarial Neural Networks and Deep Learning: Successful Cases and Advanced Approaches. *International Journal of Computing*, Vol. 20, Issue 3, 2021, pp. 339-349.
- [7] Sidenko, I., Misiuk, T., Kondratenko, G., Kondratenko, Y. Objects segmentation in augmented reality environment. In: COLINS-2021: 5th International Conference on Computational Linguistics and Intelligent Systems, April 22–23, 2021, Kharkiv, Ukraine, CEUR Workshop Proceedings, Vol. 2870, pp. 959–968, 2021. DOI: CEUR-WS.org/Vol-2870/paper72.pdf
- [8] Kondratenko, Y., Kondratenko, G., Sidenko, I., Taranov, M. Fuzzy and Evolutionary Algorithms for Transport Logistics Under Uncertainty. *Advances in Intelligent Systems and Computing*, Volume 1197, AISC, 2021, c. 1456-1463, International Conference on Intelligent and Fuzzy Systems, INFUS 2020; Istanbul; Turkey; 21-23 July 2020; Код 242349

- [9] Kondratenko Y., Sidenko I., Kondratenko G., Petrovych V., Taranov M., Sova I. Artificial Neural Networks for Recognition of Brain Tumors on MRI Images. In: Bollin A. et al. (eds) Information and Communication Technologies in Education, Research, and Industrial Applications. ICTERI 2020. Communications in Computer and Information Science, vol 1308. Springer, Cham, pp. 119-140, 2021. DOI: [https://doi.org/10.1007/978-3-030-77592-6\\_6](https://doi.org/10.1007/978-3-030-77592-6_6)
- [10] Kondratenko, Y.P., Kondratenko, N.Y. Soft Computing Analytic Models for Multiplication of Asymmetrical Fuzzy Numbers. Studies in Fuzziness and Soft Computing, Volume 393, 2021, pp. 201-214. DOI: 10.1007/978-3-030-47124-8\_17
- [11] Kondratenko, Y.P., Kozlov, O.V. Combined Fuzzy Controllers with Embedded Model for Automation of Complex Industrial Plants. Studies in Fuzziness and Soft Computing, Volume 393, 2021, pp. 215-228. DOI: 10.1007/978-3-030-47124-8\_18
- [12] O.V. Kozlov, Y.P. Kondratenko. Bio-inspired Algorithms for Optimization of Fuzzy Control Systems: Comparative Analysis. In: Y.P. Kondratenko, V.M. Kuntsevich, A.A. Chikrii, V.F. Gubarev (Eds.), 'Advanced Control Systems: Theory and Applications', Series in Automation, Control and Robotics, River Publishers, Gistrup, pp. 83-128, 2021.
- [13] Zaporozhets Y.M., Ivanov A.V., Kondratenko Y.P. and Tsurkin V.M. The Features of Controlled Conductive Electric Current Treatment of Liquid Metals. In: Advances in Engineering Research, Vol. 44, Nova Science Publishers, New York, 2021, pp. 1-114.

## 2020

- [14] Vadym Akhundov, Galyna Kondratenko, Ievgen Sidenko, Yuriy Kondratenko. Visually-Interactive Systems: Structural Optimization of Software Development. 2020 IEEE International Conference on Problems of Infocommunications. Science and Technology (PIC S&T), 6-9 Oct. 2020, Kharkiv, Ukraine, Proceedings, Publ. IEEE, 2020, pp. 422-426. DOI: 10.1109/PICST51311.2020.9467923
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- [18] V. Shebanin, I. Atamanyuk and Y. Kondratenko, " Synthesis of Control Systems on the Basis of a Canonical Vector Decomposition of Random Sequences," 2020 IEEE Problems of Automated Electrodrive. Theory and Practice (PAEP), Kremenchuk, Ukraine, 2020, pp. 1-5, doi: 10.1109/PAEP49887.2020.9240808.
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- [22] Khortiuk, Y., Kondratenko, G., Sidenko, I., Kondratenko, Y. Increasing Reliability of Programming Interfaces Based on Fuzz Testing. Proceedings - 2020 IEEE 11th International Conference on Dependable Systems, Services and Technologies, DESSERT 2020, Kyiv; Ukraine; 14 -18 May 2020; Article No. 9125060, c. 272-277.
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- [32] Ivanova, K., Kondratenko, G., Sidenko, I., Kondratenko, Y. Artificial intelligence in automated system for web-interfaces visual testing. CEUR Workshop Proceedings, Volume 2604, 2020, c. 1019-1031, 4th International Conference on Computational Linguistics and Intelligent Systems, COLINS 2020; Lviv; Ukraine; 23-24 April 2020; Код 159817.
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- [36] Abdelhady, M., Kondratenko, Y., Abouelwafa, W., Simon, D. Stability Analysis of Heartbeat Control Based on the Zeeman Framework. Proceedings of the 2019 10th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications, IDAACS 2019, 2,8924412, c. 824-829, 2019.
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- [50] Hanna Krapivina, Yuriy Kondratenko, Galyna Kondratenko. Multi-Criteria Decision Making Approaches for Choice of Wireless Communication Technologies for IoT-Based Systems. In: Zholtkevych, G. (ed), ICT in Education, Research and Industrial Applications. Integration, Harmonization and Knowledge Transfer. Proceedings of ICTERI'2019. Volume III: PhD Symposium, Kherson, Ukraine, June 12-15, 2019. CEUR Workshop Proceedings, 2019, pp. 73-82. CEUR-WS.org/Vol-2403/paper9.pdf
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