

Publications of Vagan Terziyan

Updated: August 22, 2023

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[JUFO Publications](#) Statistics:

JUFO_LEVEL = x: 104 papers;

JUFO_LEVEL = 0: 32 papers;

JUFO_LEVEL = 1: 89 papers;

JUFO_LEVEL = 2: 11 papers;

JUFO_LEVEL = 3: 3 papers.

TOTAL: **239** publications

Edited Books and Book Chapters

Terziyan, V., Golovianko, M., & Gryshko, S. (2018). [Industry 4.0 Intelligence under Attack: From Cognitive Hack to Data Poisoning](#). In: K. Dimitrov (Ed.), *Cyber Defence in Industry 4.0 Systems and Related Logistics and IT Infrastructure (NATO Science for Peace and Security Series D: Information and Communication Security)*, Vol. 51, pp. 110-125). IOS Press. <https://doi.org/10.3233/978-1-61499-888-4-110>

([JUFO ID = 5548; JUFO LEVEL = 1](#)).

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Cochez, M., Periaux, J., Terziyan, V., & Tuovinen T. (2018). [Agile Deep Learning UAVs Operating in Smart Spaces: Collective Intelligence vs. “Mission-Impossible”](#). In: P. Dies *et al.* (Eds.), [Computational Methods and Models for Transport - New Challenges for the Greening of Transport Systems](#) (*Computational Methods in Applied Sciences*, Vol. 45, pp. 31-53).Springer. https://doi.org/10.1007/978-3-319-54490-8_3

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Dobko, T., Golovianko, M., Kaikova, O., Terziyan, V., & Tiihonen, T. (Eds.). (2014). [Імператив якості: вчимося цінувати і оцінювати вищу освіту](#). (*Quality Matters: How to Value and Evaluate Higher Education*), 572 pp. Lviv: Publisher Company Manuscript.

Gryshko, S., Dobko, T., Kaikova, O., Terziyan, V., & Tiihonen, T. (Eds.). (2014). [Від контролю до культури якості: перезавантаження процесів забезпечення якості в українській вищій школі](#). (*"We Share because we Care": Reloading the Processes of Quality Assurance in the Ukrainian Higher Education*), 168 pp. Lviv: Publisher Company Manuscript.

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([JUFO_ID = 6003; JUFO_LEVEL = 2](#)).

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Santos, M. Y., & Terziyan, V. (Eds.). (2011). [BUSTECH-2011: Proceedings of the First International Conference on Business Intelligence and Technology](#) (65 pp.). IARIA XPS Press, ISBN: 978-1-61208-160-1

Kesaniemi, J., & Terziyan, V. (2011). [Agent-Environment Interaction in MAS - Introduction and Survey](#). In: F. Alkhateeb (Ed.), [Multi-Agent Systems - Modeling, Interactions, Simulations and Case Studies](#) (pp. 203-226). IntechOpen. <https://doi.org/10.5772/15145>

([JUFO_ID = 7044; JUFO_LEVEL = 0](#)).

Katasonov, A., & Terziyan, V. (2010). [Using Semantic Technology to Enable Behavioural Coordination of Heterogeneous Systems](#). In: G. Wu (Ed.), [Semantic Web](#) (pp. 135-156). IntechOpen. <https://doi.org/10.5772/7304>

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Nagy, M., Katasonov, A., Khriyenko, O., Nikitin, S., Szydowski, M., & Terziyan, V. (2009). [Challenges of Middleware for the Internet of Things](#). In: A. Rodic (Ed.), [Automation and Control - Theory and Practice](#) (pp. 247-270). IntechOpen. <https://doi.org/10.5772/7869>

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Ermolayev, V., Keberle, N., Kononenko, O., & Terziyan, V. (2007). [Proactively Composing Web Services as Tasks by Semantic Web Agents](#). In: L. J. Zang (Ed.), [Modern Technologies in Web Services Research](#) (pp. 217-246). IGI Global. <https://doi.org/10.4018/978-1-59904-280-0.ch011>

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Terziyan, V., & Puuronen, S. (2000). [Reasoning with Multilevel Contexts in Semantic Metanetworks](#). In: P. Bonzon, M. Cavalcanti, & R. Nossun (Eds.), *Formal Aspects in Context* (Applied Logic Series, Vol. 20, pp. 107-126). Kluwer Academic Publishers. https://doi.org/10.1007/978-94-015-9397-7_7

([JUFO_ID = 5598; JUFO_LEVEL = 2](#)).
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Terziyan, V., & Tiihonen, T. (2024, to appear). Using Cloning-GAN Architecture to Unlock the Secrets of Smart Manufacturing: Replication of Cognitive Models. [Procedia Computer Science](#), 13 pp. Elsevier.

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([Presentation slides are here](#)).

Terziyan, V., Terziian, A., & Vitko, O. (2024, to appear). Creative and Adversarial Cellular Automata for Simulating Resilience in Industry 5.0. [Procedia Computer Science](#), 12 pp. Elsevier.

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Golovianko, M., Terziyan, V., Branytskyi, V., & Malyk, D., (2023). [Industry 4.0 vs. Industry 5.0: Co-existence, Transition, or a Hybrid. *Procedia Computer Science*, 217, 102-113. Elsevier. <https://doi.org/10.1016/j.procs.2022.12.206>](#).

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Terziyan, V., Malyk, D., Golovianko, M., & Branytskyi, V. (2022). [Hyper-Flexible Convolutional Neural Networks Based on Generalized Lehmer and Power Means. *Neural Networks*, 155, 177-203. Elsevier. <https://doi.org/10.1016/j.neunet.2022.08.017>](#)

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Golovianko, M., Gryshko, S., Terziyan, V., & Tuunanen, T. (2022). [Responsible Cognitive Digital Clones as Decision Makers: A Design Science Research Study. *European Journal of Information Systems*. <https://doi.org/10.1080/0960085X.2022.2073278>](#)

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