

## Списък на научните трудове по конкурса за "доцент"

### Списък с научните трудове, попадащи в Показател №3

**Показател 3:** Хабилитационен труд – монография, основаваща се на не по-малко от 5 публикации в реферирани издания, с които кандидатът не е участвал в предходни процедури

**Монография:** Димитър Борисов, „Ефективни методи за оптимизация и рационално вземане на оптимални решения, Академично издателство на ИИИТ – Пловдив, 2025 г., стр. 225. ISBN номер: 978-619-91382-8-1

Цитирани източници в монографията (11):

1. Borisov, D., An accelerated algorithm for finding the optimum of complex ridge type objective functions, Journal Of Informatics And Innovative Technologies (JIIT), ISSN 2682 – 9517 № 2-3 (1), 2019, 91 – 96.
2. Borisov, D., Investigation of Heuristic Algorithms for One Dimensional Optimization with Accelerated Convergence, Journal “Information Technologies and Control”, Print ISSN: 1312-2622; Online ISSN: 2367-5357, 2018.
3. Borisov, D., Investigation of heuristic algorithms for multidimensional optimization with accelerated convergence, Journal Of Informatics And Innovative Technologies (JIIT), ISSN 2682 – 9517 № 1 (1), 2019, 42-47.
4. D. Borisov, Mathematical modeling and multicriteria optimization of the ceramic indicators of the refractory linings of steel foundry ladles, Journal of Chemical Technology and Metallurgy, 58, 1, 2022, 208-216.
5. D. Borisov, Multi-criteria study of the quality indicators of quartz driving masses by fractional-rational generalized functions, Journal of Chemical Technology and Metallurgy, Vol. 58, Issue 5, 2023, pp 945-954.
6. Borisov, D., Stoyanov, S., Optimal decision making by different generalized desirability functions, journal of informatics and innovative technologies (JIIT), ISSN: 2682 – 9517 (print) ISSN: 2683 – 0930 (online), № 4 (2), 2020, 11 – 17, ISSN: 2682 – 9517.
7. Borisov, D., Stoyanov, S., Multi-criteria optimal rational decision-making taking into account the priorities of objective indicators, Journal of informatics and innovative technologies (JIIT), ISSN: 2682 – 9517 (print) ISSN: 2683 – 0930 (online), № 4 (4), 2020, 7 – 19.
8. Borisov, D., Comparative analysis of generalized objective functions used in multicriteria optimization, Journal Of Informatics And Innovative Technologies (JIIT), ISSN 2682 – 9517 № 2 (3), 2021, 35-42.
9. Borisov, D., Multicriteria decision making through fractional rational generalized functions, Journal Of Informatics And Innovative Technologies (JIIT), ISSN 2682 – 9517 № 3 (3), 2021, 37-46.
10. Borisov, D., An heuristic algorithm for searching a global optimum, based on group analysis, Journal Of Informatics And Innovative Technologies (JIIT), ISSN 2682 – 9517 № 2 (4), 2022, 11-20.
11. S. Stoyanov, D. Borisov, Strategy for optimal decision making by generalized fractional rational function, Journal Of Informatics And Innovative Technologies (JIIT), ISSN: 2682 – 9517 (print) ISSN: 2683 – 0930 (online), № 2-3 (2), 2020, 1 – 6.

**Списък с научните трудове, попадащи в Показател №7 и  
Показател №8**

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D. Borisov, Investigation of Heuristic Algorithms for One Dimensional Optimization with Accelerated Convergence, Information technologies and control, Print ISSN: 1312-2622; Online ISSN: 2367-5357, DOI: 10.1515/itc-2018-0001, 1, 2018, 2-7

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Ngoc Dung Bui, Quang Tuyen Vu, Long Ngo, Thanh Binh Ngo, D. Borisov, Objects detection in autonomous vehicles using YOLOV5, , Journal of informatics and innovative technologies (JIIT), ISSN: 2682 – 9517 (print) ISSN: 2683 – 0930 (online), № 2 – 3 (5), 2023, 29 – 34.

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