

РАКА ЈОВАНОВИЋ, Др

Последња позиција: Senior Scientist

Институција: Математички Институт, САНУ, Београд, Србија

Научно звање: виши научни сарадник

Датум рођења: 10. септембар 1978.

E-mail: rakabog@yahoo.com

ОБРАЗОВАЊЕ

2012.

Универзитет у Београду, Математички факултет

Доктор наука

Наслов: "Побољшање метода мрављих колонија за решавање НП-комплетних оптимизационих задатака на графовима"

Ментор: проф. др Милан Туба

2007.

Универзитет у Београду, Математички факултет

Магистар рачунарства

Наслов: "Софтверска имплементација општег симулатора"

Ментор: проф. др Милан Туба

2002.

Универзитет у Београду, Математички факултет

Основне академске студије рачунарства

РАДНО ИСКУСТВО

2013 – 2026

Senior Scientist (2024-2026), Scientist (2013–2024)

Qatar Environment and Energy Research Institute (QEERI), Hamad Bin Khalifa University, Doha, Qatar

2007 – 2022

Истраживач сарадник → Научни сарадник → Виши научни сарадник

Институт за физику, Универзитет у Београду

2009 – 2011

Истраживач сарадник

Texas A&M University at Qatar, Doha, Qatar

2012

Доцент

Мегатренд универзитет, Београд

ОБЛАСТИ ИСТРАЖИВАЊА

Развој метахеуристичких алгоритама

Аутор методе Fixed Set Search (FSS) и њених варијанти (MFSS) за решавање комплексних NP-тешких проблема.

Примењена комбинаторна оптимизација

Примена оптимизационих техника на проблеме у енергетици, транспорту и логистици (EV пуњење, распореди, управљање ланцима снабдевања).

Математичко моделирање и машинско учење

Хибридни приступи који комбинују метахеуристике, MIP моделе и неуронске мреже за решавање проблема у реалном свету.

МЕТРИКЕ УТИЦАЈА

(Scopus, без самоцитата и цитата коаутора)

Хиршов индекс (h-index): 19

Укупан број цитата: 1,337

i10 индекс: 32 (радова са ≥ 10 цитата)

Радови са ≥ 50 цитата: 9

Број радова који су цитирани бар једном: 82

МЕЂУНАРОДНА САРАДЊА

Дугогодишња сарадња са проф. др Стефаном Восом (University of Hamburg) на развоју FSS методе и другим темама из области операционих истраживања.

Активна сарадња са истраживачима са University of Strathclyde (UK), Delft University of Technology (Netherlands) и другима.

84.1% објављених радова резултат је међународне сарадње.

Редовни члан програмских одбора међународних конференција (ICCL, IEEE SSCI, LOGMS, MDIS).

DAAD аллумни (стипендија за истраживачку посету Универзитету у Хамбургу, 2013).

РУКОВОЂЕЊЕ ПРОЈЕКТИМА

Principal Investigator (PI) на пројекту "Hydroponics and Aquaponics with AIoT in Qatar (HAIAT)" (QRDI, ~500,000 USD, 2021–2025).

PI на пројекту "Sustainable Resource Management for Indoor Farming" (QRDI, ~300,000 USD, 2025–2026).

Руководио подпројектом "Sustainable Supply Management" у оквиру портфолија "Energy Efficiency and Value Added Products" (QEERI, 2016–2017).

НАСТАВА И МЕНТОРСТВО

Постдипломска настава

Hamad Bin Khalifa University, College of Science and Engineering.

Курсеви: Machine Learning for Supply Chain Management (LSCM741) и Data Analytics for Supply Chain Management (LSCM643).

Ментор/коментор на докторским студијама

Михаел Палк (University of Hamburg).

Ментор на мастер студијама

Михаел Палк (University of Hamburg), Момчило Брајић (Мегатренд универзитет), Абдус Самад (HBKU).

Ментор на Летњој истраживачкој пракси

Математички институт САНУ.

ПРИЗНАЊА

Награда за **најбољи рад** на 5th International Conference on Data Engineering and Communication Technology (ICDECT), 2024.

Награда **"runner-up"** (друго место) за најбољи рад у категорији Surveys and Tutorials у часопису International Transactions in Operational Research, 2024.

DAAD стипендиста (Немачка служба за академску размену), 2013.

РЕЦЕНЗЕНТСКА АКТИВНОСТ

Рецензент у водећим међународним часописима из области операционих истраживања и вештачке интелигенције, укључујући:

European Journal of Operational Research, Computers & Industrial Engineering, Computers & Operations Research, Applied Soft Computing, Information Sciences, Engineering Applications of Artificial Intelligence, Expert Systems with Applications и други.

Рецензент докторске дисертације на Universidad Politécnica de Madrid.

СПИСАК НАУЧНИХ РАДОВА ПОСЛЕ ИЗБОРА У ЗВАЊЕ ВИШИ НАУЧНИ САРАДНИК РАЗВРСТАНИХ ПРЕМА КАТЕГОРИЈАМА НАУЧНОГ РАДА (М КОЕФИЦИЈЕНТИМА)

Монографске студије / поглавље у књизи М12 или рад у тематском зборнику међународног значаја (М14) [укупно 3]

1. Safak Bayram, I., **Jovanovic, R.** (2023)
Energy-efficient architectures for 6G networks.
In: The Role of 6G and Beyond on the Road to Net-Zero Carbon, pp. 113–136. IET
Telecommunications Series.
DOI: [10.1049/PBTE108E_ch6](https://doi.org/10.1049/PBTE108E_ch6)
2. **Jovanovic, R.**, Voß, S. (2022)
Solving the quadratic knapsack problem using GRASP.
In: Metaheuristics for Machine Learning: New Advances and Tools, pp. 157–178. Springer Nature
Singapore.
DOI: [10.1007/978-981-19-3888-7_6](https://doi.org/10.1007/978-981-19-3888-7_6)
3. Bayram, I.S., Ismail, M., **Jovanovic, R.** (2021)
The role of smart metasurfaces in smart grid energy management.
In: Backscattering and RF Sensing for Future Wireless Communication, pp. 119–132. Willey.
DOI: [10.1002/9781119695721.ch6](https://doi.org/10.1002/9781119695721.ch6)

Радови у врхунским међународним часописима (М21а+) [укупно 2]

1. **Jovanovic, R.**, Bayhan, S., Bayram, I.S. (2026)
Optimizing electric vehicle charging infrastructure on highways: a MILP model for balanced demand allocation.
International Journal of Energy Research, 2026(1), 9945830.
Nuclear Science & Technology | IF2022: 5.281
IF2024: 4.3 | DOI: [10.1155/er/994583](https://doi.org/10.1155/er/994583)
2. Bayram, I.S., Devetsikiotis, M., **Jovanovic, R.** (2022)
Optimal design of electric vehicle charging stations for commercial premises.
International Journal of Energy Research, 46(8), 10040–10051.
Nuclear Science & Technology | IF2022: 5.281
DOI: [10.1002/er.6523](https://doi.org/10.1002/er.6523)

Радови у врхунским међународним часописима (M21a) [укупно 3]

1. Shannak, S., **Jovanovic, R.**, Sanfilippo, A., Namany, S., Kafi, A., Al-Ansari, T. (2025)
Evaluating the energy-water-food nexus in Qatar: Balancing crop imports and local production.
Energy Nexus, 100568.
Environmental Sciences | IF2024: 12.73
DOI: [10.1016/j.nexus.2025.100568](https://doi.org/10.1016/j.nexus.2025.100568)
2. Radanović, L., Mijović, A., Urošević, D., Davidović, T., **Jovanovic, R.** (2025)
General variable neighborhood search for maximum diversity problem with capacity and budget constraints.
Expert Systems with Applications, 267:126188.
Operations Research & Management Science | IF2025: 7.5
DOI: [10.1016/j.eswa.2024.126188](https://doi.org/10.1016/j.eswa.2024.126188)
3. **Jovanovic, R.**, Sanfilippo, A.P., Voß, S. (2023)
Fixed set search applied to the clique partitioning problem.
European Journal of Operational Research, 309(1), 65–81.
Operations Research & Management Science | IF2023: 6.363
DOI: [10.1016/j.ejor.2023.01.044](https://doi.org/10.1016/j.ejor.2023.01.044)
4. **Jovanovic, R.**, Voß, S. (2021)
Fixed set search application for minimizing the makespan on unrelated parallel machines with sequence-dependent setup times.
Applied Soft Computing, 110, 107521.
Computer Science, Interdisciplinary Applications | IF2021: 8.78
DOI: [10.1016/j.asoc.2021.107521](https://doi.org/10.1016/j.asoc.2021.107521)

Радови у врхунским међународним часописима (M21) [укупно 7]

1. Sanfilippo, A., Kafi, A., **Jovanovic, R.**, Shannak, S., Ahmad, N., Wanik, Z. (2024)
Sustainable energy management for indoor farming in hot desert climates.
Sustainable Energy Technologies and Assessments, 71:103958.
Green & Sustainable Science & Technology | IF2024: 7.0
DOI: [10.1016/j.seta.2024.103958](https://doi.org/10.1016/j.seta.2024.103958)
2. **Jovanovic, R.**, Voß, S. (2024)
Fixed set search matheuristic applied to the knapsack problem with forfeits.
Computers & Operations Research, 168:106685.
Operations Research & Management Science | IF2024: 4.300
DOI: [10.1016/j.cor.2024.106685](https://doi.org/10.1016/j.cor.2024.106685)
3. **Jovanovic, R.**, Bayhan, S., Bayram, I.S. (2021)
A multiobjective analysis of the potential of scheduling electrical vehicle charging for flattening the duck curve.
Journal of Computational Science, 48, 101262.

Computer Science, Theory & Methods | IF2021: 3.817

DOI: [10.1016/j.jocs.2020.101262](https://doi.org/10.1016/j.jocs.2020.101262)

4. **Jovanovic, R.**, Voß, S. (2020)
The fixed set search applied to the power dominating set problem.
Expert Systems, 37(6), e12559.
Computer Science, Theory & Methods | IF2020: 2.831
DOI: [10.1111/exsy.12559](https://doi.org/10.1111/exsy.12559)
5. **Jovanovic, R.**, Voß, S. (2020)
A matheuristic approach for solving the 2-connected dominating set problem.
Applicable Analysis and Discrete Mathematics, 14(3), 775–799.
Mathematics | IF2020: 1.429
DOI: [10.2298/AADM190227052](https://doi.org/10.2298/AADM190227052)
6. **Jovanovic, R.**, Tanaka, S., Nishi, T., Voß, S. (2019)
A GRASP approach for solving the blocks relocation problem with stowage plan.
Flexible Services and Manufacturing Journal, 31, 702–729.
Operations Research & Management Science | IF2019: 2.639
DOI: [10.1007/s10696-018-9320-3](https://doi.org/10.1007/s10696-018-9320-3)
7. **Jovanovic, R.**, Tuba, M., Voß, S. (2019)
An efficient ant colony optimization algorithm for the blocks relocation problem.
European Journal of Operational Research, 274(1), 78–90.
Operations Research & Management Science | IF2019: 4.213
DOI: [10.1016/j.ejor.2018.09.038](https://doi.org/10.1016/j.ejor.2018.09.038)

Радови у истакнутим међународним часописима (M22) [укупно 10]

1. Cürebal, A., Voß, S., **Jovanovic, R.** (2026)
Fixed set search matheuristic applied to the min-Knapsack problem with compactness constraints and an extension incorporating penalty values.
Journal of Heuristics, 32(2), p.16.
Computer Science, Theory & Methods | IF2024: 1.400
DOI: [10.1007/s10732-026-09589-2](https://doi.org/10.1007/s10732-026-09589-2)
2. **Jovanovic, R.**, Voß, S. (2026)
Extending GRASP towards an improved Fixed Set Search for solving the maximum disjoint dominating sets problem.
Journal of Heuristics, 32(2), p.15.
Computer Science, Theory & Methods | IF2024: 1.400
DOI: [10.1007/s10732-026-09587-4](https://doi.org/10.1007/s10732-026-09587-4)
3. Alicic, D., Sezer, N., Maric, M., **Jovanovic, R.** (2025)
Matheuristic fixed set search applied to the two-stage capacitated facility location problem.
IEEE Access, 13, 171093–171115.
Computer Science, Information Systems | IF2024: 3.600
DOI: [10.1109/ACCESS.2025.3616111](https://doi.org/10.1109/ACCESS.2025.3616111)

4. Palk, M., Knappmann, K., Voss, S., **Jovanovic, R.** (2025)
Robust Prediction of Wildfire Spread in Australia.
 IEEE Access, 13, 132703–132723.
 Computer Science, Information Systems | IF2024: 3.600
 DOI: [10.1109/ACCESS.2025.3592124](https://doi.org/10.1109/ACCESS.2025.3592124)

5. **Jovanovic, R.**, Bayram, I.S., Bayhan, S., Voss, S. (2024)
Exploring the potential of placing charging stations at relief stands for EV fleets in ride-hailing and taxi services.
 IEEE Access, 12, 122249–122261.
 Computer Science, Information Systems | IF2024: 3.600
 DOI: [10.1109/ACCESS.2024.3451490](https://doi.org/10.1109/ACCESS.2024.3451490)

6. **Jovanovic, R.**, Voß, S. (2024)
Matheuristic fixed set search applied to the multidimensional knapsack problem and the knapsack problem with forfeit sets.
 OR Spectrum, 46(4), 1329–1365.
 Operations Research & Management Science | IF2024: 1.900
 DOI: [10.1007/s00291-024-00746-2](https://doi.org/10.1007/s00291-024-00746-2)

7. **Jovanovic, R.**, Palk, M., Bayhan, S., Voss, S. (2023)
Applying graph neural networks to the decision version of graph combinatorial optimization problems.
 IEEE Access, 11, 38534–38547.
 Computer Science, Information Systems | IF2023: 3.476
 DOI: [10.1109/ACCESS.2023.3268212](https://doi.org/10.1109/ACCESS.2023.3268212)

8. **Jovanovic, R.**, Sanfilippo, A.P., Voß, S. (2022)
Fixed set search applied to the multi-objective minimum weighted vertex cover problem.
 Journal of Heuristics, 28(4), 481–508.
 Computer Science, Theory & Methods | IF2023: 2.247
 DOI: [10.1007/s10732-022-09499-z](https://doi.org/10.1007/s10732-022-09499-z)

9. **Jovanovic, R.**, Bayram, I.S., Bayhan, S., Voß, S. (2021)
A GRASP approach for solving large-scale electric bus scheduling problems.
 Energies, 14(20), 6610.
 Energy & Fuels | IF2021: 3.251
 DOI: [10.3390/en14206610](https://doi.org/10.3390/en14206610)
Није урачунат у поене за избор у звање

10. Hrosik, R.C., Tuba, E., Dolicanin, E., **Jovanovic, R.**, Tuba, M. (2019)
Brain image segmentation based on firefly algorithm combined with k-means clustering.
 Studies in Informatics and Control, 28(2), 167–176.
 Operations Research & Management Science | IF2019: 2.833
 DOI: [10.24846/v28i2y201905](https://doi.org/10.24846/v28i2y201905)

Радови у међународним часописима (M23) [укупно 1]

1. Palk, M., Voß, S., **Jovanovic, R.** (2026)
Robustness Assessment of Public Transport Networks in Various Graph Representations:

Systematic Review, Decision Support, and Case Study.
Networks, 1–29.
Operations Research & Management Science | IF2024: 1.300
DOI: [10.1002/net.70021](https://doi.org/10.1002/net.70021)

Саопштења са међународних скупова штампана у целини (M33) [укупно 34]

1. Bayram, I.S., Senol, M., **Jovanovic, R.**, Shi, X. (2025)
Harmonics-aware smart charging of electric vehicles.
In: 2025 IEEE Transportation Electrification Conference & Expo+ Electric Aircraft Technologies Symposium, pp. 1–5. IEEE.
DOI: [10.1109/ITEC63604.2025.11098041](https://doi.org/10.1109/ITEC63604.2025.11098041)
<https://ieeexplore.ieee.org/xpl/conhome/11097905/proceeding>
2. **Jovanovic, R.**, Bayhan, S., Bayram, I.S. (2025)
Exploring the Potential of Machine Learning Methods for Predicting Charging Power Curves.
In: 2025 10th IEEE Workshop on the Electronic Grid (eGRID), Glasgow, United Kingdom, pp. 1–6. IEEE.
DOI: [10.1109/eGRID63452.2025.11255577](https://doi.org/10.1109/eGRID63452.2025.11255577)
<https://ieeexplore.ieee.org/xpl/conhome/11251513/proceeding>
3. **Jovanovic, R.**, Abdel-Halim Shannak, S., Sanfilippo, A.P. (2025)
Balancing local production and imports using mixed-integer programming: A case study of Qatar.
In: International Congress on Information and Communication Technology, pp. 301–310. Springer Nature Singapore.
DOI: [10.1007/978-981-96-6438-2_20](https://doi.org/10.1007/978-981-96-6438-2_20)
<https://link.springer.com/book/10.1007/978-981-96-6438-2>
4. Kafi, A.I., Sanfilippo, A.P., **Jovanovic, R.**, Shannak, S.A.-H. (2025)
Drone-based tomato fruit detection through hardware-accelerated YOLO deployment.
In: International Congress on Information and Communication Technology, pp. 507–519. Springer Nature Singapore.
DOI: [10.1007/978-981-96-6438-2_35](https://doi.org/10.1007/978-981-96-6438-2_35)
<https://link.springer.com/book/10.1007/978-981-96-6438-2>
5. Samad, A., Baldacci, R., **Jovanovic, R.** (2025)
Matheuristic Fixed Set Search Applied to the K-Dominating Set Problem.
In: IEEE 19th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Antalya, Turkiye, pp. 1–6. IEEE.
DOI: [10.1109/CPE-POWERENG63314.2025.11027291](https://doi.org/10.1109/CPE-POWERENG63314.2025.11027291)
<https://ieeexplore.ieee.org/xpl/conhome/11027100/proceeding>
6. Cürebal, A., Voß, S., **Jovanovic, R.** (2024)
Fixed set search matheuristic applied to the min-knapsack problem with compactness constraints and penalty values.
In: Metaheuristics International Conference, pp. 264–278. Springer Nature Switzerland.

DOI: [10.1007/978-3-031-62922-8_18](https://doi.org/10.1007/978-3-031-62922-8_18)
<https://link.springer.com/book/10.1007/978-3-031-62912-9>

7. **Jovanovic, R.**, Voß, S. (2024a)
Fixed set search applied to the maximum disjoint dominating sets problem.
In: Metaheuristics International Conference, pp. 347–353. Springer Nature Switzerland.
DOI: [10.1007/978-3-031-62922-8_26](https://doi.org/10.1007/978-3-031-62922-8_26)
<https://link.springer.com/book/10.1007/978-3-031-62912-9>
8. **Jovanovic, R.**, Urošević, D. (2024)
Efficient mixed integer programming formulation for the uncapacitated r -allocation p -hub center problem.
In: International Conference on Data Engineering and Communication Technology, pp. 277–289. Springer Nature Singapore.
DOI: [10.1007/978-981-96-5223-5_23](https://doi.org/10.1007/978-981-96-5223-5_23)
<https://link.springer.com/book/10.1007/978-981-96-5223-5>
9. **Jovanovic, R.**, Kafi, A.I., Shannak, S.A.-H., Sanfilippo, A.P. (2024)
Evaluating the relation between energy use and tomato yield of greenhouses in Qatar.
In: 2024 4th International Conference on Smart Grid and Renewable Energy (SGRE), pp. 1–5. IEEE.
DOI: [10.1109/SGRE59715.2024.10428687](https://doi.org/10.1109/SGRE59715.2024.10428687)
<https://ieeexplore.ieee.org/xpl/conhome/10428118/proceeding>
10. **Jovanovic, R.**, Shannak, S., Sanfilippo, A. (2024)
A neural network approach for predicting crop import prices: A case study of Qatar.
In: International Conference on Data Mining and Big Data, pp. 115–125. Springer Nature Singapore.
DOI: [10.1007/978-981-96-7175-5_10](https://doi.org/10.1007/978-981-96-7175-5_10)
<https://link.springer.com/book/10.1007/978-981-96-7175-5>
11. Mijović, A., Radanović, L., Urošević, D., Davidović, T., **Jovanovic, R.** (2024)
Bee colony optimization for maximum diversity problem with capacity and budget constraints.
In: 2024 4th International Conference on Smart Grid and Renewable Energy (SGRE), pp. 1–6. IEEE.
DOI: [10.1109/SGRE59715.2024.10428871](https://doi.org/10.1109/SGRE59715.2024.10428871)
<https://ieeexplore.ieee.org/xpl/conhome/10428118/proceeding>
12. Šević, I., **Jovanovic, R.**, Urošević, D., Davidović, T. (2024)
Fixed Set Search Applied to the Max-Cut Problem.
In: IEEE 8th Energy Conference (ENERGYCON), Doha, Qatar, pp. 1–6. IEEE.
DOI: [10.1109/ENERGYCON58629.2024.10488777](https://doi.org/10.1109/ENERGYCON58629.2024.10488777)
<https://ieeexplore.ieee.org/xpl/conhome/10488753/proceeding>
13. **Jovanovic, R.** (2023)
Fixed set search applied to the maximum set k -covering problem.
In: 2023 IEEE Symposium Series on Computational Intelligence (SSCI), pp. 1245–1250. IEEE.
DOI: [10.1109/SSCI52147.2023.10371961](https://doi.org/10.1109/SSCI52147.2023.10371961)
<https://ieeexplore.ieee.org/xpl/conhome/10371778/proceeding>

14. Wenzel, P., **Jovanovic, R.**, Schulte, F. (2023)
A Neural Network Approach for ETA Prediction in Inland Waterway Transport.
In: Computational Logistics (ICCL 2023), Lecture Notes in Computer Science, vol. 14239, pp. 140–154. Springer, Cham.
DOI: [10.1007/978-3-031-43612-3_13](https://doi.org/10.1007/978-3-031-43612-3_13)
<https://link.springer.com/book/10.1007/978-3-031-43612-3>
15. Cors, T., Vlcek, T., Voß, S., **Jovanovic, R.** (2022)
Fixed set search applied to the territory design problem.
In: 14th International Conference, MIC 2022, Syracuse, Italy, Proceedings, pp. 322–334. Springer International Publishing.
DOI: [10.1007/978-3-031-26504-4_23](https://doi.org/10.1007/978-3-031-26504-4_23)
<https://link.springer.com/book/10.1007/978-3-031-26504-4>
16. **Jovanovic, R.**, Bayhan, S., Bayram, I.S. (2022)
Capacity optimization of ev charging networks: a greedy algorithmic approach.
In: 2022 3rd International Conference on Smart Grid and Renewable Energy (SGRE), pp. 1–6. IEEE.
DOI: [10.1109/SGRE53517.2022.9774066](https://doi.org/10.1109/SGRE53517.2022.9774066)
<https://ieeexplore.ieee.org/xpl/conhome/9774031/proceeding>
17. **Jovanovic, R.**, Bayhan, S., Bayram, I.S. (2022)
Optimization of electric vehicle charge scheduling with consideration of battery degradation.
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Није урачунат у поене за избор у звање

Списак научних радова до избора у звање виши научни сарадник разврстаних према категоријама научног рада (М коефицијентима)

Монографске студије / поглавље у књизи М11 или рад у тематском зборнику водећег међународног значаја (М13) [укупно 1]

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