Jindřiška Deckerová

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EDUCATION —	
2021 - Present	Faculty of Electrical Engineering, Czech Technical University in Prague DOCTORAL STUDIES Informatics Topic: Dynamic robotic routing problems
2018 - 2021	Faculty of Electrical Engineering, Czech Technical University in Prague MASTER'S DEGREE Open Informatics, Artificial Inteligence Thesis: Generalized Routing Problems with Continuous Neighborhoods
2019 - 2020	Escola Politècnica Superior d'Enginyeria de Vilanova i la Geltrú, Universitat Politècnica de Catalunya Erasmus+ program
2015 - 2018	Faculty of Electrical Engineering, Czech Technical University in Prague Bachelor's degree Open Informatics, Software Systems Thesis: Artificial Neural Networks in Solution of the Orienteering Problems
Experience ——	
2021 - Present	RESEARCHER Computational Robotics Laboratory within Artificial Inteligence Center, Faculty of Electrical Engineering, Czech Technical University in Prague
2018 - 2021	INTERN Computational Robotics Laboratory within Artificial Inteligence Center, Faculty of Electrical Engineering, Czech Technical University in Prague

COMMUNITY SERVICE -

- Workshop organizator at Became a scientist for a day within the International Day of Women in Science | 2023
- \bullet Member of organization committee of Student Conference on Planning in Artificial Intelligence and Robotics (PAIR) $\mid 2022$
- Member of organization committee of International Workshop on Self-Organizing Maps and Learning Vector Quantization, Clustering and Data Visualization (WSOM+ 2022) | 2022
- \bullet Speaker and workshop organizator at Became a scientist for a day within the International Day of Women in Science | 2022
- PR Manager of Open Informatics study program | 2021 2023
- Member of Academic Senate of Faculty of Electrical Engineering, Czech Teaching University in Prague
 | 2019 2021

AWARDS AND COMPETITIONS —

- 2021 Winner of the IT SPY- the best master thesis in the field of informatics and information technology in Czechia and Slovakia
- 2021 Dean's award for the best diploma thesis
- 2021 $\,$ Member of the $3^{\rm nd}$ placed team at Aviation ISAC-Collegiate CTF Competition
- 2020 Member of the 2nd placed team at Aviation ISAC-Collegiate CTF Competition

TEACHING ACTIVITIES -

Instructor Programming in C | 2019 - PRESENT

Procedural Programming | 2021 - PRESENT

Artificial Inteligence in Robotics | 2021 - PRESENT

Student supervision Master student | 2022 - 2023

Topic: Lower Bound Estimates for Path Planning in Environment with Obstacles

Publications -

- 1. **Deckerová**, **J.**, Váňa P., & Faigl, J., Combinatorial Lower Bounds for the Generalized Traveling Salesman Problem with Neighborhoods. Expert Systems with Applications, 2023, **In review**.
- 2. **Deckerová**, **J.**, Kučerová K., & Faigl, J., On Improvement Heuristic to Solutions of the Close Enough Traveling Salesman Problem in Environments with Obstacles. European Conference on Motion Robots (ECMR), 2023, **Accepted for publication**.
- 3. **Deckerová**, **J.**, Krátký, V. & Faigl, J., Traveling Salesman Problem with Neighborhoods on a Sphere in Reflectance Transformation Imaging Scenarios. Expert Systems with Applications, 198116814, 2022.
- 4. **Deckerová**, **J.** & Faigl, J., *Hopfield Neural Network in Solution of the Close Enough Orienteering Problem*. In Proceedings of the 20th Conference Information Technologies Applications and Theory (pp. 169-175), 2020.
- 5. Faigl, J., Váňa, P. & **Deckerová**, **J.**, Fast heuristics for the 3-D multi-goal path planning based on the generalized traveling salesman problem with neighborhoods. IEEE Robotics and Automation Letters, 4(3) (pp. 2439-2446), 2019.
- Faigl, J. & Deckerová, J., On Unsupervised Learning based Multi-Goal Path Planning for Visiting 3D Regions. In Proceedings of the 2018 4th International Conference on Robotics and Artificial Intelligence (pp. 45-50), 2018.

Media presence

- Jindřiška Deckerová: Science popularization, robots, and drons, PAiONERRS TALKS podcast, https://open.spotify.com/episode/3iZ96Gss1dPHtc12d80FSe?si=1ac61e1207844292
- To ladies you don't need to explain it, Hospodářské noviny, https://archiv.hn.cz/c1-67114590-damam-to-nemusite-vysvetlovat-vickrat
- Jindřiška Deckerová: She teaches robots to find the best way, has an award for a technical diploma thesis and inspires other girls, *Heroine.cz*, https://www.heroine.cz/zeny-it/8853-uci-roboty-hledat-nejlepsi-cestu-jindriska-deckerova-ma-cenu-za-technickou-diplomovou-praci-a-i
- Jindřiška Deckerová: Cakes and tears are part of programming, Novinky.cz, Právo, https://www.novinky.cz/zena/styl/clanek/jindriska-deckerova-k-programovani-patri-i-dorty-a-slzy-40396
- Jindřiška Deckerová: The best diploma thesis in Informatics, Studio Víkend ČT, https://www.ceskatelevize.cz/porady/10101491767-studio-ct24/221411058250702/

SKILLS -

Programming languages C, C++, Julia, Python, Java, MATLBAB

Languages Czech: Mother Tongue | English: C1 certificate | German: Basic | Spanish: Basic

Soft skills Fast learning | Creative

OTHER -

Podcast host věda bez cenzury - Scientific podcast about PhD, academia, science, and life https://open.spotify.com/show/ORALXyXqLX210WcEzm48EC?si=335127ee61c64dd1