Roxana RĂDULESCU

Curriculum Vitae

Researcher unique identifier (ORCID): https://orcid.org/0000-0003-1446-5514
Google Scholar: https://scholar.google.com/citations?user=jue1nxAAAAAJ
Website: https://roxanaradulescu.com

Research topics *Reinforcement Learning; Multi-Agent Reinforcement Learning; Multi-Objective Optimisation; Deep Reinforcement Learning; Game Theory*

Current positions

May 2024–present:

Utrecht University, the Netherlands
Assistant professor in AI and Data Science, Intelligent Systems group, Department of Information and Computing Sciences

2024–present:

Hybrid Intelligence Centre, the Netherlands (NWO Gravitation programme)
Co-leader of the Collaboration & Synergy (CoSy) research challenge, jointly with Dr. Erman ACAR

Education

2015–2021 **Doctor of Sciences – Computer Science** (Artificial Intelligence)
Vrije Universiteit Brussel (VUB), Belgium
PhD thesis: "Decision Making in Multi-Objective Multi-Agent Systems: A Utility-Based Perspective"
Promotor: Prof. Dr. Ann NOWÉ & Co-promotors: Dr. Diederik M. ROIJERS, Prof. Dr. Patrick MANNION

2013–2015 **Master of Science in Computer Science** (Artificial Intelligence)
Vrije Universiteit Brussel (VUB), Belgium (summa cum laude)
Master thesis: "Simulating the Shift towards Semantic Gender in Dutch: A Multi-agent Language Game Approach"
Supervisor: Prof. Dr. Katrien BEULS & Advisor: Assoc. Dr. Remi VAN TRIJP

2009–2013 **Bachelor of Science in Computer Science** (Information Engineering)
Faculty of Engineering in Foreign Languages (English Stream), University "Politehnica" of Bucharest, Romania (GPA: 98%)
Bachelor thesis: "Topic Classification in Social Media"
Supervisor: Prof. Dr. Ionel-Bujorel PĂVĂLOIU

Professional history

October 2022–April 2024:

Vrije Universiteit Brussel, Belgium
Postdoctoral researcher at the Artificial Intelligence Lab, Research Foundation – Flanders (FWO) grant.

October 2021–September 2022:

Vrije Universiteit Brussel, Belgium
Postdoctoral researcher (50%) at the Artificial Intelligence Lab, FWO iBOF project DESCARTES (infectious DisEaSe eConomics and Ai with guaRanTEeS)

Guest professor (50%) (Department of Computer Science)

January 2017−September 2021:

Vrije Universiteit Brussel, Belgium
Doctoral researcher at the Artificial Intelligence Lab
Teaching assistant at the Department of Computer Science

October 2015 – December 2016:

Vrije Universiteit Brussel, Belgium
Doctoral researcher for the Stable MultI-agent LEarnIng for neTworks (SMILE-IT) project (Artificial Intelligence Lab)

2012 – 2013:

Junior programmer
AQUASOFT Bucharest, Romania (http://www.aquasoft.ro/)

Teaching experience

Assistant professor at the Department of Information and Computing Sciences, UU:

2024−present	Multi-Agent Systems (MA level, second semester).
2025−present	Methods in AI Research (MA level, first semester).
2026−present	Intelligent Systems (BA level, second semester); course coordinator from 2027.

Guest professor at the Department of Computer Science, VUB:

2021−2022	Machine Learning (BA level, first semester). Bachelor Theses Jury Committee Adaptive Systems Seminar (MA level, second semester).

Teaching assistant at the Department of Computer Science, VUB:

2017−2021	Machine Learning (BA level, first semester), prof. Ann Nowé. Artificial Intelligence (BA level, second semester), prof. Bernard Manderick.
2016−2021	Computational Game Theory (MA level, first semester), prof. Ann Nowé, prof. Tom Lenaerts
2015−2018	Techniques of Artificial Intelligence (MA level, second semester), prof. Ann Nowé, prof. Geraint Wiggins.

Grants

- **NWO Dutch Research Agenda, ORC 2024 round** – DECIDE: Democratizing AI – Empowering Citizens through Transparent Decision-making, grant number NWA.1766.24.031, December 2025 – December 2031. Co-leader of WP5 (AI Decision Support Systems), Utrecht University. Total budget €6.8M across a consortium of 10 Dutch universities and c. 30 societal partners.
- **Hybrid Intelligence Centre** (NWO Gravitation programme) – PhD project 3.30: Learning Trade-offs in Multi-Stakeholders Multi-Objective Problems, 2025 – present. Supervisor, jointly with Prof. Dr. Davide GROSSI (University of Groningen).
- **Horizon Europe** (call HORIZON-CL4-2022-HUMAN-02-01, "AI for human empowerment") – PEER: The hyPEr ExpeRt collaborative AI assistant, grant agreement 101120406, October 2023 – September 2027. **Coordinated the preparation of the proposal** while a postdoctoral researcher at the Vrije Universiteit Brussel. Awarded €7.74M to a 15-partner consortium coordinated by the VUB.
- **FWO Junior Post-doctoral fellowship** (Research Foundation – Flanders) – "Decision-making in team-reward multi-objective multi-agent domains", grant number 1286223N, Vrije Universiteit Brussel, awarded 2022. Three-year personal fellowship (full salary plus annual bench fee).

Doctoral supervision

Completed

2021–2025	**Willem RÖPKE** – "Thinking in Trade-Offs: Training Agents to Balance Conflicting Objectives under Uncertainty" Co-promotor. Vrije Universiteit Brussel, Belgium. Defended February 2026.
2022–2025	**Nicole ORZAN** – "Cooperation Under Uncertain Incentive Alignment: A Multi-Agent Reinforcement Learning Perspective" Co-promotor. University of Groningen, the Netherlands. Defended March 2025.

Ongoing

2026–present	**Andrei POPOVICIU** – "Adaptive Explanations for Transparent and Contestable Sequential Decision-Making" Co-promotor. Utrecht University, the Netherlands. Part of the DECIDE project.
2025–present	**Panos ARONIS** – "Learning Trade-offs in Multi-Stakeholders Multi-Objective Problems" Co-promotor. Utrecht University, the Netherlands. Part of the Hybrid Intelligence Centre (project 3.30).
2023–present	**Hicham AZMANI** – "From Theory to Practice: Foundations for Scalable and Human-Aligned Multi-Objective Reinforcement Learning" Co-promotor. Vrije Universiteit Brussel, Belgium. FWO PhD fellowship.

Master Theses

Supervised – Utrecht University

- L. Holwerda, Enhancing Graph-Based Multi-Agent Reinforcement Learning for Strategic and Diverse Coordination, 2026
- R. Franquinet, DNA4RL: Towards Self-Evolving Deep Reinforcement Learning Architectures, 2026
- C. Obame Obiang, Opponent modelling in multi-objective multi-agent decision making, 2026
- V. Puşcaru, Understanding AI Agent Intent through Future Actions Visualisation in Hybrid Human-AI Cooperative Games, 2026
- T. dos Santos Silva Peixoto Carriço, MORL in Quantitative Finance, 2025
- G. van de Bunt, RoboSubSim: Robust Reinforcement Learning Policies Trained Using Sim-to-Real Methods and Aquatic, Randomized, Simple Physics, 2025

Assisted – Vrije Universiteit Brussel

- S. Ajridi, Deconstructing Multi-agent Reinforcement Learning Benchmarks: Revealing The Objectives, promotor: Ann Nowé, 2022-2023
- D. Symens, Utility Modelling in Multi Objective Games, promotor: Ann Nowé, 2022-2023
- H. Azmani, Graph-based Multi-Agent Reinforcement Learning for Adaptive Incentive Design, promotor: Ann Nowé, 2022-2023
- P. Vanvolsem, Machine learning for sports injury prevention: Injury prediction & automated training plan generation, promotors: Geraint A. Wiggins, Bruno Tassignon, 2022-2023
- D. A. Atun, Learning in Multi-Objective Repeated Games with Strategy-Based Payoffs, promotors: Bart Bogaerts, Ann Nowé, 2021-2022
- W. Röpke, Communication in Multi-Objective Multi-Agent Systems, promotor: Ann Nowé, 2020-2021
- J. S. Botoko Ekila, Neural Networks for Executable Semantic Representations, promotors: Katrien Beuls, Paul Van Eecke, 2019-2020
- F. R. P. Sanjines, Successor Representation for Multi-agent Reinforcement Learning, promotor: Ann Nowé, 2018-2019
- R. Ding, Multi-agent Reinforcement Learning for Autonomous Vehicle Platoon Formation, promotors: Ann Nowé, Wolfgang De Meuter, 2018-2019
- A. Veeckman, Deep Reinforcement Learning for Residential Demand Response, promotor: Ann Nowé, 2017-2018
- J. de Neve, AMCEF An Ambient Framework for Intelligent Data Dissemination in Smart Environments, promotor: Elisa Gonzalez Boix, 2017-2018
- M. Legrand, Deep Reinforcement Learning for Autonomous Vehicle Control Among Human Drivers, promotors: Tom Lenaerts, Ann Nowé, ULB, 2016-2017

Bachelor Theses

Supervised – Utrecht University

- W. C. Rodrigues, Incorporating Moral Choices in Social Dilemmas with Multi-Objective Reinforcement Learning, June 2026
- C. Boateng, A Multimodal Approach to Automating Product Listings with Machine Learning, June 2025

Assisted – Vrije Universiteit Brussel

- M. Postiglione, Extensions of A* for Multi-Agent Pathfinding, promotor: Ann Nowé, 2023-2024
- A. De Greef, Extensions of Conflict Based Search for Multi-Agent Pathfinding, promotor: Ann Nowé, 2022-2023
- H. S. Temmerman, Prioritized planning voor multi-pathfinding, promotor: Ann Nowé, 2022-2023
- A. Doukhan, Multi-Agent Planning in Multi-Criteria Pick-up and Delivery Environment, promotor: Ann Nowé, 2021-2022
- H. Azmani, A Study of Multi-agent Pickup and Delivery Approaches for Automated Warehouse Environments, promotor: Ann Nowé, 2020-2021
- E. De Deken, Analysing Conflict-Based Search for Multi-Agent Planning Settings, promotor: Ann Nowé, 2020-2021
- L. L. Willems, A* Variants for Multi-Agent Path Finding in Warehouse Environments, promotor: Ann Nowé, 2020-2021
- D. Aziz, A Multi-Agent Watershed Management Environment, promotor: Ann Nowé, 2019-2020
- W. Röpke, Building a Speech-to-Text Engine for Dutch, promotor: Ann Nowé, 2018-2019
- I. A. Cimpean, Visual Aid Application, promotor: Ann Nowé, 2017-2018
- S. Denys, Connecting the Smart Grid to a Real Blockchain, promotor: Ann Nowé, 2017-2018
- E. Caroes, Face Recognition App for VUB AI Lab Personnel, promotor: Ann Nowé, 2017-2018
- M. Barhdadi, Treasure Hunt Game with Automatic Checkpoint Detection, promotor: Ann Nowé, 2017-218
- R. Peeters, Upgrading the smart grid: Building a demonstration platform using Raspberry Pi, promotor: Ann Nowé, 2016-2017

Tutorials and lectures

SIKS course: Foundations of Data Science – Data Mining (February 2026):

- Lecture: Multi-objective reinforcement learning for complex decision support

SIKS course: Reinforcement Learning for Adaptive Hybrid Intelligence (October 2025):

- Lecture: Multi-objective learning and preference elicitation

The 27th European Conference on Artificial Intelligence (ECAI 2024):

- Tutorial: Multi-Objective Multi-Agent Learning: Evolutionary and Reinforcement Learning Perspectives

The 3rd TAILOR Summer School on Artificial Intelligence:

- Course: Multi-Objective Reinforcement Learning (5-day course at the 1st European Summer School on Artificial Intelligence (ESSAI) sub-event)

The 22nd International Conference on Autonomous Agents and Multiagent Systems (AAMAS-23):

- Tutorial: Decision Making with Multiple Agents that Care about More than One Objective

The 31st International Joint Conference on Artificial Intelligence (IJCAI-22):

- Tutorial: When Multiple Agents Care About More than One Objective

Invited talks

May 2026	**C-MAS 2026 – 4th Workshop on Citizen-Centric Multiagent Systems (AAMAS 2026)** **Keynote speaker.** Title: "From Friction to Synergy: Building Human-Aligned Agents with Multi-Objective Reinforcement Learning" Paphos, Cyprus
September 2025	**CCAIS Seminar 2025 – Seminar Series on Citizen-Centric AI Systems** Title: "A Multi-Objective Perspective on Building Human-AI Collectives"
June 2025	**CWI – Workshop on Theory of Control and Reinforcement Learning**

	Title: "Multi-Objective Learning Agents" Amsterdam, The Netherlands
May 2025	**ALA 2025 – Adaptive and Learning Agents Workshop (AAMAS 2025)** **Keynote speaker.** Title: "Dissecting multi-objective learning agents" Detroit, USA
October 2024	**Frontiers in AI – The 27th European Conference on Artificial Intelligence (ECAI 2024)** Title: "The World is a Multi-Objective Multi-Agent System: Now What?" Santiago de Compostela, Spain
June 2024	**Belgium-Netherlands workshop on Reinforcement Learning (BeNeRL) 2024** Title: "Building Human-AI Collectives: a Multi-Objective Perspective" Amsterdam, the Netherlands
May 2024	**Agents–Vic Autumn Symposium 2024: Reasoning and Learning for Autonomous Agents** Title: "How Risk Attitudes and Uncertainty Impact Cooperation in Public Good Games" Melbourne, Australia
May 2023	**Panel Discussion Speaker** Title: "Agents, Ethics, and the Future of Research", Adaptive and Learning Agents Workshop at AAMAS 2023 London, UK
July 2021	**Panel Discussion Chair**, online Title: "Challenges and Opportunities for Real-World Applications of Multi-Objective Decision Making", MODeM 2021 Workshop (virtual event)
June 2021	**COMARL Virtual Seminar Series**, online Title: "Decision Making in Multi-Objective Multi-Agent Settings"
November 2020	**Mexico Autonomous Institute of Technology**, online Title: "Introduction to Reinforcement Learning and Current Developments"
October 2017	**ACAI Summer School on Reinforcement Learning** Title: "Multi-Agent Reinforcement Learning" Nieuwpoort, Belgium

Impact and engagement

- October 2020 - Presenting the NRGcoin smart grid demo, during the visit of the European Commissioner for Justice, Didier Reynders and Bruno Liebhaberg, Director General of the Centre on Regulation in Europe (CERRE) at the AI Experience Centre, VUB.
- February 2020 - Presenting the NRGcoin smart grid demo, during the visit of the president of the EU Comission at the AI Experience Center, Ursula von der Leyen, VUB.
- November 2018 - Presenting the NRGcoin smart grid demo at the INSEAD Innovator Prize 2018

Professional service and memberships

- **Member of the Board of Directors**, International Foundation for Autonomous Agents and Multiagent Systems (IFAAMAS), 2026 – 2032
- **Member**, European Laboratory for Learning and Intelligent Systems (ELLIS) – research area: Reinforcement Learning & Control, 2025 – present

Organizing committees

The 26th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2027):

- Publicity chair – https://warwick.ac.uk/fac/sci/dcs/aamas2027/organisation/

Alice & Eve 2026 – The 7th Workshop Celebrating Women in Computing:

- Poster chair – https://alice-and-eve.github.io/2026/

The 7th Distributed AI conference (DAI 2025):

- Workshop and Tutorial chair – https://www.adai.ai/dai/2025

The 24th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2025):

  - Doctoral consortium chair – https://aamas2025.org

The 33rd International Joint Conference on Artificial Intelligence (IJCAI 2024):

  - Challenges and competitions chair – https://ijcai24.org

The 26th European Conference on Artificial Intelligence (ECAI 2023):

  - Workflow chair – https://ecai2023.eu/

Multi-Objective Decision Making (MODeM) Workshop at:

  - IJCAI-ECAI 2026 – https://modem2026.vub.ac.be
  - ECAI 2025 – https://modem2025.vub.ac.be
  - ECAI 2024 – https://modem2024.vub.ac.be
  - ECAI 2023 – https://modem2023.vub.ac.be

International Workshop on AI Systems for the Environment (AISE) at:

  - IJCAI-ECAI 2026 – https://sites.google.com/view/aise2026
  - ECAI 2025 – https://sites.google.com/view/aise25

Adaptive and Learning Agents (ALA) Workshop at:

  - AAMAS 2021 (virtual event) – https://ala2021.vub.ac.be
  - AAMAS 2020 (virtual event) – https://ala2020.vub.ac.be
  - AAMAS 2019 (Montreal, Canada) – https://ala2019.vub.ac.be

Editorial activity

Neural Computing and Applications Springer Journal (2023 impact factor 4.5; journal since delisted from JCR) – Guest editor for the:

  - Topical Collection on Multi-Objective Decision Making 2024 (MODeM 2024) – lead guest editor
  - Topical Collection on Multi-Objective Decision Making 2023 (MODeM 2023)
  - Adaptive and Learning Agents 2021 Workshop Special Issue
  - Adaptive and Learning Agents 2020 Workshop Special Issue

The Knowledge Engineering Review (2-yearly impact factor 2025 1.3) – Guest editor for the:

  - Adaptive and Learning Agents 2019 Workshop Special Issue

Reviewing activities

- AAMAS 2027, 2026, 2025, 2024 (conference)
- ICML 2023, 2022, 2021, 2020, 2019 (conference)
- ICLR 2023 (conference)
- TMLR (journal)
- ALA Workshop at AAMAS 2026, 2025, 2024, 2023, 2022, 2019, 2018, 2017 (workshop)
- JAIR (journal)
- EWRL 2024, 2023, 2022 (workshop)
- NeurIPS 2021, 2019 (conference)
- MODeM Workshop 2021 (workshop)
- IJCAI 2020 (conference)
- ECAI 2025, 2024, 2020 (conference)
- JAAMAS (journal)
- The Knowledge Engineering Review (journal)
- DCAI' 18 (SS01 – ADRESS, Special Session on Advances on Demand Response and Renewable Energy Sources in Smart Grids) (conference)

Journal publications (peer-reviewed)

1. Rodriguez-Soto, M., **Rădulescu, R.**, Bistaffa, F., Ricart, O., Mayoral-Macau, A., López-Sánchez, M., Rodríguez-Aguilar, J. A., & Nowé, A. (2026). **Multi-objective reinforcement learning for provably incentivising alignment with value systems**. Artificial Intelligence, 351, 104460. https://doi.org/10.1016/j.artint.2025.104460 [2-yearly impact factor 2025 4.7]

2. Felten, F., Ucak, U., Azmani, H., Peng, G., Röpke, W., Baier, H., Mannion, P., Roijers, D. M., Terry, J. K., Talbi, E. G., Danoy, G., Nowé, A., & **Rădulescu, R.** (2026). **MOMAland: A Set of Benchmarks for Multi-Objective Multi-Agent Reinforcement Learning**. Journal of Data-centric Machine Learning Research, 3(15), 1-49. https://openreview.net/forum?id=vzHLRK0sSp

3. Orzan, N., Acar, E., Grossi, D., & **Rădulescu, R.** (2025). **Learning in public goods games: the effects of uncertainty and communication on cooperation**. Neural Computing and Applications, 37(23), 18899-18932. https://doi.org/10.1007/s00521-024-10530-6 [2-yearly impact factor 2023 4.5; journal since delisted from JCR]

4. Röpke, W., Roijers, D. M., Nowé, A., & **Rădulescu, R.** (2025). **Preference Communication in Multi-Objective Normal-Form Games.** Neural Computing and Applications, 37(19), 13119-13144. https://doi.org/10.1007/s00521-022-07533-6 [2-yearly impact factor 2023 4.5; journal since delisted from JCR]

5. Reymond, M., Hayes, C. F., Willem, L., **Rădulescu, R.**, Abrams, S., Roijers, D. M., Howley, E., Mannion, P., Hens, N., Nowé, A., & Libin P. (2024). **Exploring the Pareto front of multi-objective COVID-19 mitigation policies using reinforcement learning.** Expert Systems with Applications, 249, 123686. https://doi.org/10.1016/j.eswa.2024.123686 [2-yearly impact factor 2025 9.4]

6. Van Eecke, P., Beuls, K., Ekila, J. B., & **Rădulescu, R.** (2023). **Language games meet multi-agent reinforcement learning: A case study for the naming game.** Journal of Language Evolution, 7(2), 213-223. https://doi.org/10.1093/jole/lzad001 [2-yearly impact factor 2025 1.1]

7. Vamplew, P., Smith, B. J., Källström, J., Ramos, G., **Rădulescu, R.**, Roijers, D. M., Hayes, C. F., Heintz, F., Mannion, P., Libin, P.J., Dazeley, R. & Foale, C. (2022). **Scalar reward is not enough: A response to Silver, Singh, Precup and Sutton (2021)**. Journal of Autonomous Agents and Multi-Agent Systems (JAAMAS), 36(2), 41. https://doi.org/10.1007/s10458-022-09575-5 [2-yearly impact factor 2025 2.4]

8. Röpke, W., Roijers, D. M., Nowé, A., & **Rădulescu, R.** (2022). **On nash equilibria in normal-form games with vectorial payoffs.** Journal of Autonomous Agents and Multi-Agent Systems (JAAMAS), 36(2), 53. https://doi.org/10.1007/s10458-022-09582-6 [2-yearly impact factor 2025 2.4]

9. Hayes, C. F.*, **Rădulescu, R.***, Bargiacchi, E., Källström, J., Macfarlane, M., Reymond, M., Verstraeten, T., Zintgraf, L., Dazeley, R., Heintz, F., Howley, E., Irissappane, A. A., Mannion, P., Nowé, A., De Oliveira Ramos, G., Restelli, M., Vamplew, P. & Roijers, D. M. (2021). **A practical guide to multi-objective reinforcement learning and planning.** Journal of Autonomous Agents and Multi-Agent Systems (JAAMAS) 36, 26. https://doi.org/10.1007/s10458-022-09552-y [2-yearly impact factor 2025 2.4]

10. **Rădulescu, R.**, Verstraeten, T., Zhang, Y., Mannion, P., Roijers, D. M., & Nowé, A. (2020). **Opponent Learning Awareness and Modelling in Multi-Objective Normal Form Games**. Neural Computation and Applications (NCAA), https://doi.org/10.1007/s00521-021-06184-3. [2-yearly impact factor 2023 4.5; journal since delisted from JCR]

11. **Rădulescu, R.**, Mannion, P., Zhang, Y., Roijers, D., & Nowé, A. (2020). **A Utility-Based Analysis of Equilibria in Multi-Objective Normal Form Games**. The Knowledge Engineering Review, 35, [e32]. https://doi.org/10.1017/S0269888920000351 [2-yearly impact factor 2025 1.3]

12. De Oliveira Ramos, G., Castro da Silva, B., **Rădulescu, R.**, Bazzan, A., & Nowé, A. (2020). **Toll-based reinforcement learning for efficient equilibria in route choice.** The Knowledge Engineering Review, 35, [e8]. https://doi.org/10.1017/S0269888920000119 [2-yearly impact factor 2025 1.3]

13. **Rădulescu, R.**, Mannion, P., Roijers, D., & Nowé, A. (2019). **Multi-Objective Multi-Agent Decision Making: A Utility-based Analysis and Survey**. Journal of Autonomous Agents and Multi-Agent Systems (JAAMAS), 34(1), [10]. https://doi.org/10.1007/s10458-019-09433-x [2-yearly impact factor 2025 2.4]

14. Mihaylov, M. E., **Rădulescu, R.**, Razo-Zapata, I., Jurado Gomez, S., Arco Garcia, L., Avellana, N., & Nowé, A. (2019). **Comparing stakeholder incentives across state-of-the-art renewable support mechanisms**. Renewable Energy, 131, 689-699. https://doi.org/10.1016/j.renene.2018.07.069 [2-yearly impact factor 2025 9.1]

15. **Rădulescu, R.**, & Beuls, K. (2016). **Modelling pronominal gender agreement in Dutch: From a syntactic to a semantic strategy**. Belgian Journal of Linguistics, 30, 219-250. [10]. https://doi.org/10.1075/bjl.30.10rad

Conference proceedings (peer-reviewed)

1. Rodrigues, W. C., & **Rădulescu, R.** (2026). **Incorporating Moral Choices in Social Dilemmas with Multi-Objective Reinforcement Learning**. In Proceedings of the 38th Benelux Conference on Artificial Intelligence and the 35th Belgian Dutch Conference on Machine Learning (BNAIC/BeNeLearn 2026). https://openreview.net/forum?id=mpr09ghvb1
2. Aronis, P., Dastani, M., **Rădulescu, R.**, & Varricchione, G. (2026). **Leveraging Reward Machines for Efficient Multi-Objective Reinforcement Learning**. In Proceedings of the Reinforcement Learning Conference 2026, Montréal, Canada.
3. Osika, Z., **Rădulescu, R.**, Zatarain-Salazar, J., Oliehoek, F. A., & Murukannaiah, P. K. (2026). **MORL4Water: A Modular Multi-Objective Reinforcement Learning Toolkit for Water Resource Management**. In Proceedings of the 25th International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2026 (pp. 1211-1220). ACM.
4. Asadi, M., **Rădulescu, R.**, & Nowé, A. (2025). **Explainable AI Based Diagnosis of Poisoning Attacks in Evolutionary Swarms**. In Proceedings of the Companion Conference on Genetic and Evolutionary Computation, GECCO Companion 2025 (pp. 251-254). ACM.
5. Röpke, W., Reymond, M., Mannion, P., Roijers, D. M., Nowé, A., & **Rădulescu, R.** (2025). **Divide and Conquer: Provably Unveiling the Pareto Front with Multi-Objective Reinforcement Learning**. In Proceedings of the 24th International Conference on Autonomous Agents and Multi-Agent Systems, AAMAS 2025 (pp. 1774-1783). IFAAMAS.
6. Osika, Z., **Rădulescu, R.**, Zatarain Salazar, J., Oliehoek, F. A., & Murukannaiah, P. K. (2025). **Multi-Objective Reinforcement Learning for Water Management**. In Proceedings of the 24th International Conference on Autonomous Agents and Multi-Agent Systems, AAMAS 2025 (pp. 2702-2704). IFAAMAS.
7. **Rădulescu, R.** (2024). **The World is a Multi-Objective Multi-Agent System: Now What?**. In Proceedings of the 27th European Conference on Artificial Intelligences, ECAI 2024 (pp. 32-38). IOS Press.
8. Orzan, N., Acar, E., Grossi, D., Mannion, P., & **Rădulescu, R.** (2024). **Learning in Multi-Objective Public Goods Games with Non-Linear Utilities**. In Proceedings of the 27th European Conference on Artificial Intelligences, ECAI 2024 (pp. 2749-2756). IOS Press.
9. Orzan, N., Acar, E., Grossi, D., & **Rădulescu, R.** (2024). **Emergent Cooperation under Uncertain Incentive Alignment**. In Proceedings of the 23rd International Conference on Autonomous Agents and Multi-Agent Systems, AAMAS 2024 (pp. 1521-1530). IFAAMAS.
10. Vamplew, P., Foale, C., Hayes, C. F., Mannion, P., Howley, E., Dazeley, R., Johnson, S., Källström, J., Ramos, G., **Rădulescu, R.**, Röpke, W., & Roijers, D. M. (2024). **Utility-Based Reinforcement Learning: Unifying Single-objective and Multi-objective Reinforcement Learning – Blue Sky track**. In Proceedings of the 23rd International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2024 (pp. 2717-2721). IFAAMAS.
11. Röpke, W., Groenland, C., **Rădulescu, R.**, Nowé, A., & Roijers, D. M. (2023). **Bridging the Gap Between Single and Multi Objective Games**. In Proceedings of the 22nd International Conference on Autonomous Agents and Multi-Agent Systems, AAMAS 2023 (pp. 224-232). IFAAMAS.
12. Vamplew, P., Smith, B. J., Källström, J., Ramos, G., **Rădulescu, R.**, Roijers, D. M., Hayes, C. F., Heintz, F., Mannion, P., Libin, P.J., Dazeley, R. & Foale, C. (2023). **Scalar reward is not enough: JAAMAS track**. In Proceedings of the 22nd International Conference on Autonomous Agents and Multi-Agent Systems, AAMAS 2023 (pp. 839-841). IFAAMAS.
13. Röpke, W., Roijers, D. M., Nowé, A., & **Rădulescu, R.** (2023). **A Study of Nash Equilibria in Multi-Objective Normal-Form Games: JAAMAS track**. In Proceedings of the 22nd International Conference on Autonomous Agents and Multi-Agent Systems, AAMAS 2023 (pp. 269-271). IFAAMAS.
14. Hayes, C. F.*, **Rădulescu, R.***, Bargiacchi, E., Källström, J., Macfarlane, M., Reymond, M., Verstraeten, T., Zintgraf, L., Dazeley, R., Heintz, F., Howley, E., Irissappane, A. A., Mannion, P., Nowé, A., De Oliveira Ramos, G., Restelli, M., Vamplew, P. & Roijers, D. M. (2023). **A Brief Guide to Multi-Objective Reinforcement Learning and Planning: JAAMAS Track**. In Proceedings of the 22nd International Conference on Autonomous Agents and Multi-Agent Systems, AAMAS 2023 (pp. 1988-1990) . IFAAMAS.
15. **Rădulescu, R.** (2020). **A Utility-Based Perspective on Multi-Objective Multi-Agent Decision Making: Doctoral Consortium**. In B. An, A. El Fallah Seghrouchni, & G. Sukthankar (Eds.), Proceedings of the 19th International Conference on Autonomous Agents and Multi-Agent Systems, AAMAS 2020 (pp. 2209-2210). AAMAS; Vol. 2020-May. IFAAMAS.
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