

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, Department of Information and Computing Sciences

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 NOWÈ & 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 eEconomics 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

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.

Awards & honors

- **Best Poster Award** (III) – Decision Making in Multi-Objective Multi-Agent Systems at the AI Flanders Research Day (2021)
- **Top reviewer** certificate of appreciation at ICML 2020 (top 33%), 15/09/2020
- **IBM Demonstration Award** (III) – Smart Grid Demonstration Platform for Renewable Energy Exchange (PAAMS'16)

Grants

- **FWO Junior Post-doctoral fellowship** – grant number 1286223N
- **FWO Grant for participation in a conference abroad** – ID K139320N, International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2020), Auckland, New Zealand, 9 - 13 May, 2020 [accepted, but physical event was cancelled due to the COVID-19 pandemic]
- **VUB Doctoral School NSE** – travel grant NSE-TG-2019-16, International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2019), Montreal, Canada, 13 - 17 May, 2019

Assisted Master Theses

- Sofyan Ajridi, Deconstructing Multi-agent Reinforcement Learning Benchmarks: Revealing The Objectives, promotor: Ann Nowé, 2022-2023
- Daan Symens, Utility Modelling in Multi Objective Games, promotor: Ann Nowé, 2022-2023
- Hicham Azmani, Graph-based Multi-Agent Reinforcement Learning for Adaptive Incentive Design, promotor: Ann Nowé, 2022-2023
- Pierre Vanvolsem, Machine learning for sports injury prevention: Injury prediction & automated training plan generation, promotor: Geraint A. Wiggins, Bruno Tassignon, 2022-2023
- Deniz Alp Atun, Learning in Multi-Objective Repeated Games with Strategy-Based Payoffs, promotor: Bart Bogaerts, Ann Nowé, 2021-2022
- Willem Röpke, Communication in Multi-Objective Multi-Agent Systems, promotor: Ann Nowé, 2020-2021
- Jérôme Simon Botoko Ekila, Neural Networks for Executable Semantic Representations, promotor: Katrien Beuls, Paul Van Eecke, 2019-2020

- Fabian Ramiro Perez Sanjines, Successor Representation for Multi-agent Reinforcement Learning, promotor: Ann Nowé, 2018-2019
- Rui Ding, Multi-agent Reinforcement Learning for Autonomous Vehicle Platoon Formation, promotor: Ann Nowé, Wolfgang De Meuter, 2018-2019
- Andreas Veeckman, Deep Reinforcement Learning for Residential Demand Response, promotor: Ann Nowé, 2017-2018
- Jo de Neve, AMCEF An Ambient Framework for Intelligent Data Dissemination in Smart Environments, promotor: Elisa Gonzalez Boix, 2017-2018
- Manon Legrand, Deep Reinforcement Learning for Autonomous Vehicle Control Among Human Drivers, promotor: Tom Lenaerts, Ann Nowé, ULB, 2016-2017

Assisted Bachelor Theses

- Matteo Postiglione, Extensions of A* for Multi-Agent Pathfinding, promotor: Ann Nowé, 2023-2024 [in progress]
- Arno De Greef, Extensions of Conflict Based Search for Multi-Agent Pathfinding, promotor: Ann Nowé, 2022-2023
- Hendrik Sebastiaan Temmerman, Prioritized planning voor multi-pathfinding, promotor: Ann Nowé, 2022-2023
- Abdulaziz Doukhan, Multi-Agent Planning in Multi-Criteria Pick-up and Delivery Environment, promotor: Ann Nowé, 2021-2022
- Hicham Azmani, A Study of Multi-agent Pickup and Delivery Approaches for Automated Warehouse Environments, promotor: Ann Nowé, 2020-2021
- Elias De Deken, Analysing Conflict-Based Search for Multi-Agent Planning Settings, promotor: Ann Nowé, 2020-2021
- Lars Luk Willems, A* Variants for Multi-Agent Path Finding in Warehouse Environments, promotor: Ann Nowé, 2020-2021
- Dani Aziz, A Multi-Agent Watershed Management Environment, promotor: Ann Nowé, 2019-2020
- Willem Röpke, Building a Speech-to-Text Engine for Dutch, promotor: Ann Nowé, 2018-2019
- Ioana Alexandra Cimpean, Visual Aid Application, promotor: Ann Nowé, 2017-2018
- Steven Denys, Connecting the Smart Grid to a Real Blockchain, promotor: Ann Nowé, 2017-2018
- Emiel Caroes, Face Recognition App for VUB AI Lab Personnel, promotor: Ann Nowé, 2017-2018
- Mohamed Barhdadi, Treasure Hunt Game with Automatic Checkpoint Detection, promotor: Ann Nowé, 2017-2018
- Ruben Peeters, Upgrading the smart grid: Building a demonstration platform using Raspberry Pi, promotor: Ann Nowé, 2016-2017

Tutorials and lectures

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

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|--------------|---|
| October 2025 | 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” |

May 2024	Amsterdam, the Netherlands Agents–Vic Autumn Symposium 2024: Reasoning and Learning for Autonomous Agents Title: “How Risk Attitudes and Uncertainty Impact Cooperation in Public Good Games”
May 2023	Melbourne, Australia Panel Discussion Speaker Title: “Agents, Ethics, and the Future of Research”, Adaptive and Learning Agents Workshop at AAMAS 2023
July 2021	London, UK 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 Commission at the AI Experience Center](#), Ursula von der Leyen, VUB.
- November 2018 - Presenting the NRGcoin smart grid demo at the [INSEAD Innovator Prize 2018](#)

Organizing committees

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:

- ECAI 2024 – <https://modem2024.vub.ac.be>
- ECAI 2023 – <https://modem2023.vub.ac.be>

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 (2-yearly impact factor 2022 5.102) – 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 2022 2.1) – Guest editor for the:

Reviewing activities

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

Journal publications (peer-reviewed)

1. 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. [2-yearly impact factor 2023 7.5]
2. 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. [2-yearly impact factor 2022 2.25]
3. 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 2022 1.9]
4. Röpke, W., Roijers, D. M., Nowé, A., & **Rădulescu, R.** (2022). **Preference Communication in Multi-Objective Normal-Form Games.** Neural Computation and Applications (NCAA) 1-26. <https://doi.org/10.1007/s00521-022-07533-6> [2-yearly impact factor 2022 5.102]
5. 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 2022 1.9]
6. 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 2022 1.9]
7. **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 2022 5.102]
8. **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 2022 2.1]
9. 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 2022 2.1]
10. **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 2022 1.9]

11. 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 2022 8.634]
12. **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> [2-yearly impact factor 2022 0.33]

Conference proceedings (peer-reviewed)

1. 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. (in press)
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. **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.
9. **Rădulescu, R.**, Mannion, P., Roijers, D., & Nowé, A. (2020). **Multi-Objective Multi-Agent Decision Making: A Utility-based Analysis and Survey: JAAMAS Track**. In Proceedings of the 19th International Conference on Autonomous Agents and Multi-Agent Systems, AAMAS 2020 (pp. 2158-2160). IFAAMAS.
10. Zhang, Y., **Rădulescu, R.**, Mannion, P., Roijers, D., & Nowé, A. (2020). **Opponent Modelling for Reinforcement Learning in Multi-Objective Normal Form Games: Extended Abstract**. 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. 2080-2082). AAMAS; Vol. 2020-May. IFAAMAS.
11. De Oliveira Ramos, G., **Rădulescu, R.**, Nowé, A., & Tavares, A. (2020). **Toll-Based Learning for Minimising Congestion under Heterogeneous Preferences**. 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. 1098-1106). AAMAS; Vol. 2020-May. IFAAMAS.
12. **Rădulescu, R.**, Mannion, P., Roijers, D. M., & Nowé, A. (2020). **Recent Advances in Multi-Objective Multi-Agent Decision Making**. In L. Cao, W. Kusters, & J. Lijffijt (Eds.), Proceedings of the 32nd Benelux Conference on Artificial Intelligence (BNAIC 2020) (pp. 392-394). Benelux Association for Artificial Intelligence (BNVKI-AIABN).
13. Röpke, W., **Rădulescu, R.**, Efthymiadis, K., & Nowé, A. (2019). **Training a Speech-to-Text Model for Dutch on the Corpus Gesproken Nederlands**. In K. Beuls, B. Bogaerts, G. Bontempi, P. Geurts, N. Harley, B. Lebichot, T. Lenaerts, G. Louppe, ... P. Van Eecke (Eds.), Proceedings of the 31st Benelux Conference on Artificial Intelligence (BNAIC 2019) (Vol. 2491). (CEUR Workshop Proceedings). CEUR Workshop Proceedings.

14. Röpke, W., Rădulescu, R., Efthymiadis, K., & Nowé, A. (2019). **DuStt – a Speech-to-Text Engine for Dutch: Demo Abstract**. In K. Beuls, B. Bogaerts, G. Bontempi, P. Geurts, N. Harley, B. Lebichot, T. Lenaerts, G. Louppe, ... P. Van Eecke (Eds.), Proceedings of the 31st Benelux Conference on Artificial Intelligence (BNAIC 2019) (Vol. 2491). (CEUR Workshop Proceedings). CEUR Workshop Proceedings.
15. Rădulescu, R., Legrand, M., Efthymiadis, K., Roijers, D., & Nowé, A. (2018). **Deep Multi-Agent Reinforcement Learning in a Homogeneous Open Population**. In M. Atzmueller, & W. Duivesteijn (Eds.), Artificial Intelligence: 30th Benelux Conference, BNAIC 2018, 's-Hertogenbosch, The Netherlands, November 8–9, 2018, Revised Selected Papers (pp. 177-191). (Belgian/Netherlands Artificial Intelligence Conference). Springer International Publishing. https://doi.org/10.1007/978-3-030-31978-6_8
16. Rădulescu, R., Vrancx, P., & Nowé, A. (2017). **Analysing Congestion Problems in Multi-agent Reinforcement Learning**. In E. Durfee, M. Winikoff, K. Larson, & S. Das (Eds.), 16th International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2017 (Vol. 3, pp. 1705-1707)
17. Mihaylov, M. E., Razo-Zapata, I., Rădulescu, R., & Nowé, A. (2016). **Boosting the Renewable Energy Economy with NRGcoin**. In P. Grosso, P. Lago, & A. Osseyran (Eds.), Proceedings of ICT for Sustainability 2016 (Advances in Computer Science Research; Vol. 46). Atlantis Press.
18. Mihaylov, M. E., Razo Zapata, I., Rădulescu, R., Jurado, S., Avellana, N., & Nowé, A. (2016). **Smart Grid Demonstration Platform for Renewable Energy Exchange**. In Y. Demazeau, T. Ito, J. Bajo, & M-J. Escalona (Eds.), Proceedings of the 14th International Conference on Practical Applications of Agents and multi-agents systems (PAAMS'16) (Vol. 9662, pp. 277-280). Springer. https://doi.org/10.1007/978-3-319-39324-7_30
19. Vasile A., Rădulescu R. and Păvăloiu I. (2014), **Topic classification in Romanian blogosphere**, 12th Symposium on Neural Network Applications in Electrical Engineering (NEUREL), pp. 131-134, [doi:10.1109/NEUREL.2014.7011480](https://doi.org/10.1109/NEUREL.2014.7011480).

International Workshop Proceedings (peer-reviewed)

1. Röpke, W., Reymond, M., Mannion, P., Roijers, D. M., Nowé, A., & Rădulescu, R. (2024) **Divide and Conquer: Provably Unveiling the Pareto Front with Multi-Objective Reinforcement Learning** In Proceedings of the 17th European Workshop on Reinforcement Learning (EWRL 2024), Toulouse, France. (in press)
2. Orzan, N., Acar, E., Grossi, D., & Rădulescu, R. (2024) **Learning in Public Goods Games with Non-Linear Utilities: a Multi-Objective Approach**. In Proceedings of the Adaptive and Learning Agents (ALA 2024) Workshop at AAMAS 2024, Auckland, New Zealand.
3. Azmani, H., Rosseau, A., Nowé, A., & Rădulescu, R. (2023). **Cooperative Foraging Behaviour Through Multi-Agent Reinforcement Learning with Graph-Based Communication**. In Proceedings of the 16th European Workshop on Reinforcement Learning (EWRL 2023), Brussels, Belgium.
4. Mannion, P.*, & Rădulescu, R.* (2023). **Comparing utility-based and Pareto-based solution sets in multi-objective normal form games**. In Proceedings of the Multi-Objective Decision Making (MODeM 2023) Workshop at ECAI 2023, Kraków, Poland.
5. Ajridi, S., Röpke, W., Nowé, A., & Rădulescu, R. (2023). **Deconstructing Reinforcement Learning Benchmarks: Revealing The Objectives**. In Proceedings of the Multi-Objective Decision Making (MODeM 2023) Workshop at ECAI 2023, Kraków, Poland.
6. Orzan, N., Acar, E., Grossi, D., & Rădulescu, R. (2023). **Emergent Cooperation and Deception in Public Good Games**. In Proceedings of the Adaptive and Learning Agents (ALA 2023) Workshop at AAMAS 2023, London, United Kingdom.
7. Rodriguez-Soto, M., Rădulescu, R., Rodriguez-Aguilar, J. A., Lopez-Sanchez, M., & Nowé, A. **Multi-objective reinforcement learning for guaranteeing alignment with multiple values**. In Proceedings of the Adaptive and Learning Agents Workshop (ALA 2023) at AAMAS 2023, London, United Kingdom.
8. Röpke, W., Rădulescu, R., Nowé, A., & Roijers, D.M. (2022). **Commitment and Cyclic Strategies in Multi-Objective Games**. In Proceedings of the Adaptive and Learning Agents Workshop (ALA2022) at AAMAS 2022.
9. Roijers, D. M., Röpke, W., Nowé, A., & Rădulescu, R. (2021). **On Following Pareto-Optimal Policies in Multi-Objective Planning and Reinforcement Learning**. In Proceedings of the Multi-Objective Decision Making (MODeM 2021) Workshop 2021.
10. Röpke, W., Roijers, D. M., Nowé, A., & Rădulescu, R. (2021). **On Nash Equilibria for Multi-Objective Normal-Form Games under Scalarised Expected Returns versus Expected Scalarised Returns**. In Proceedings of the Multi-Objective Decision Making (MODeM 2021) Workshop 2021.
11. Röpke, W., Rădulescu, R., Roijers, D.M., & Nowé, A. (2021). **Communication Strategies in Multi-Objective Normal-Form Games**. In Proceedings of the Adaptive and Learning Agents Workshop (ALA2021) at AAMAS 2021.

12. Zhang, Y., **Rădulescu, R.**, Mannion, P., Roijers, D.M., & Nowé, A. (2020). **Opponent Modelling using Policy Reconstruction for Multi-Objective Normal Form Games**. In Proceedings of the Adaptive and Learning Agents Workshop (ALA2020) at AAMAS 2020.
13. De Oliveira Ramos, G., **Rădulescu, R.**, & Nowé, A. (2019). **A Budget-Balanced Tolling Scheme for Efficient Equilibria under Heterogeneous Preferences**. In Proceedings of the Adaptive and Learning Agents Workshop (ALA2019) at AAMAS 2019.
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Journal special issues (as editor)

1. da Silva, F.L., MacAlpine, P., **Rădulescu, R.**, Santos, F.P., & Mannion, P. (2022). **Special issue on adaptive and learning agents 2020**. Neural Computation and Applications (NCAA), 34, 1649–1651 (2022). <https://doi.org/10.1007/s00521-021-06593-4> [2-yearly impact factor 2021 5.102]
2. Mannion, P., MacAlpine, P., Peng, B., & **Rădulescu, R.** (2020). **Special issue on adaptive and learning agents 2019**. The Knowledge Engineering Review, 35, [e18]. <https://doi.org/10.1017/S0269888920000272> [2-yearly impact factor 2021 2.39]

Manuscripts under review

1. 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.** (2024). **MOMAland: A Set of Benchmarks for Multi-Objective Multi-Agent Reinforcement Learning**.