A Summary of Bibliography about MORL

<https://eportfolios.federation.edu.au/view/view.php?id=74593>

**Ant-Q: A Reinforcement Learning approach to the traveling salesman problem, 1995**

Luca M. Gambardella, Marco Dorigo

<http://www.idsia.ch/,> IRIDIA, Université Libre de Bruxelles

**MOAQ an Ant-Q Algorithm for Multiple Objective Optimization Problems, 1999**

Carlos E. Mariano, Eduardo Morales M.

**A New Approach for the Solution of Multiple Objective Optimization Problems Base on Reinforcement Learning, 2000, MICAI2000**

Carlos Mariano1 and Eduardo Morales2

1 Instituto Mexicano de Tecnolog´ıa del Agua

2 ITESM – Campus Morelos, Paseo de la Reforma 182-A

**A New Distributed Reinforcement Learning Algorithm for Multiple Objective Optimization Problems, 2000**

Carlos Mariano1 and Eduardo Morales2

**Multi-criteria Reinforcement Learning, 2004**

Zoltan Gabor, Zsolt Kalmar and Csaba Szcpcsvari

Associative Computing Ltd.

**Dynamic Preferences in Multi-Criteria Reinforcement Learning, 2005**

Sriraam Natarajan, Prasad Tadepalli

School of Electrical Engineering and Computer Science, Oregon State University, USA

**On the Limitation of Scalarisation for Multi-objective Reinforcement Learning of Pareto Fronts, 2008**

Peter Vamplew, John Yearwood, Richard Dazeley, Adam Berry

School of ITMS, University of Ballarat, University Drive, Mt Helen, Ballarat, Victoria, Australia

**Multi-Objective Optimisation by Reinforcement Learning, 2010**

1. L. Liao, Q. H. Wu

University of Liverpool

**Empirical evaluation methods for multiobjective reinforcement learning algorithms, 2010**

Peter Vamplew, Richard Dazeley, Adam Berry, Rustam Issabekov, Evan Dekker

Graduate School of Information Technology and Mathematical Sciences, University of Ballarat

**Online and Offline Learning in Multi-Objective Monte Carlo Tree Search, 2013**

Diego Perez, Spyridon Samothrakis, Simon Lucas

University of Essex

**Dynamic Multi-objective Optimization: A Survey of the State-of-the-Art, 2013**

Carlo Raquel, Xin Yao

Centre of Excellence for Research in Computational Intelligence and Applications (CERCIA), School of Computer Science, University of Birmingham

S. Yang and X. Yao (Eds.): Evolutionary Computation for DOPs, SCI 490, pp. 85–106.

**Hypervolume-Based Multi-Objective Reinforcement Learning, 2013**

Kristof Van Moffaert, Madalina M. Drugan, Ann Nowé

Computational Modeling Lab, Vrije University Brussel

**Multi-Objective Monte Carlo Tree Search for Real-Time Games, 2013**

Diego Perez, Sanaz Mostaghim, Spyridon Samothrakis, Simon M Lucas

University of Essex

Otto-von-Guericke-Universitt Magdeburg, Magdeburg, Germany

**A Survey of Multi-Objective Sequential Decision-Making, 2013**

Diederik M. Roijers

Informatics Institute University of Amsterdam Amsterdam, The Netherlands

Peter Vamplew

School of Science, Information Technology and Engineering University of Ballarat Ballarat, Victoria, Australia

Shimon Whiteson

Informatics Institute University of Amsterdam Amsterdam, The Netherlands

Richard Dazeley

School of Science, Information Technology and Engineering University of Ballarat Ballarat, Victoria, Australia

**Model-Based Multi-Objective Reinforcement Learning, 2014**

Marco A. Wiering, Maikel Withagen, M˘ad˘alina M. Drugan

Institute of Artiﬁcial Intelligence, University of Groningen, The Netherlands

Artiﬁcial Intelligence Lab, Vrije Universiteit Brussel, Belgium

**Learning Sets of Pareto Optimal Policies, 2014**

Kristof Van Moffaert, Madalina M. Drugan, Ann Nowé

**Multi-Objective Reinforcement Learning using Sets of Pareto Dominating Polices, 2014**

Kristof Van Moffaert, Ann Nowé

Vrije Universiteit Brussel

**Policy Gradient Approaches for Multi-Objective Sequential Decision Making, 2014**

Simone Parisi, Matteo Pirotta, Nicola Smacchia, Luca Bascetta, Marcello Restelli

Politecnico di Milano(米兰理工大学， 意大利)

**Point-Based Planning for Multi-Objective POMDPs, 2015**

Diederik M. Roijers, Shimon Whiteson, Frans A. Oliehoek

University of Amsterdam, The Netherlands

University of Liverpool, UK

**Multiobjective Reinforcement Learning: A Comprehensive Overview, 2015**

Chunming Liu, Xin Xu, Dewen Hu

National University of Defense Technology

**Multi-Objective Reinforcement Learning with Continuous Pareto Frontier Approximation, 2015**

Matteo Pirotta, Simone Parisi, Marcello Restelli

Department of Electronics, Information and Bioengineering, Politecnico di Milano

**Evolutionary multi-objective optimisation: a survey, 2015**

Nadia Nedjah, Luiza de Macedo Mourelle

State University of Rio de Janeiro University

**Refined ranking relations for selection of solutions in multiobjective metaheuristics, 2015**

Ruby L. V. Moritz, Enrico Reich, Maik Schwarz, Matthias Bernt, Martin Middendorf

University of Leipzig

**Tracking global optima in dynamic environments with efficient global optimization, 2015**

Sergio Morales-Enciso, Juergen Branke

The University of Warwick

**Abstract: Multi-Objective Decision-Theoretic Planning, 2016**

Diederik M. Roijers

University of Oxford

**Multi-Objective Deep Reinforcement Learning, 2016**

Hossam Mossalam, Yannis M. Assael, Diederik M. Roijers, Shimon Whiteson

University of Oxford

**A temporal difference method for multi-objective reinforcement learning, 2017**

Manuela Ruiz-Montiel, Lawrence Mandow, osé-Luis Pérez-de-la-Cruz

Andalucía Tech, Departamento de Lenguajes y Ciencias de la Computación,

Universidad de Málaga, Málaga, España

**Many-objective stochastic path finding using reinforcement learning, 2017**

Bentz Tozer, Thomas Mazzuchi, Shahram Sarkani

The George Washington University

**Steering approaches to Pareto-optimal multiobjective reinforcement learning, 2017**

Peter Vamplew, Rustam Issabekov, Richard Dazeley, Cameron Foale, Adam Berry, Tim Moore, Douglas Creighton

Federation University Australia

Energy Technology Division

Deakin University

**Modular Multi-Objective Deep Reinforcement Learning with Decision Values, 2018**

Tomasz Tajmajer

University of Warsaw, Poland

**A Multi-Objective Deep Reinforcement Learning Framework, 2019+**

Thanh Thi Nguyen1, Ngoc Duy Nguyen2, Peter Vamplew3, Saeid Nahavandi2, Richard Dazeley1, Chee Peng Lim2

1School of Information Technology, Deakin University, Victoria, Australia

2Institute for Intelligent Systems Research and Innovation, Deakin University, Victoria, Australia

3School of Science, Engineering and Information Technology, Federation University, Australia

**A Generalized Algorithm for Multi-Objective Reinforcement Learning and Policy Adaptation, 2019, NeurIPS 2019**

Runzhe Yang, Xingyuan Sun, KarthikNarasimhan

Department of Computer Science Princeton University

**Meta-Learning for Multi-objective Reinforcement Learning, 2019**

Xi Chen1, Ali Ghadirzadeh1,2, M˚arten Bj¨orkman1 and Patric Jensfelt1

1RPL, KTH Royal Institute of Technology, Sweden 2Intelligent Robotics research group, Aalto University, Finland

**Reinforcement Learning for Multi-Objective Optimization of Online Decisions in High-Dimensional Systems, 2019**

Hardik Meisheri, Vinita Baniwal, Nazneen N Sultana, Balaraman Ravindran, Harshad Khadilkar

TCS Research

IIT(印度理工学院)

**An Intelligent Decision-making Scheme in a Dynamic Multi-objective Environment using Deep Reinforcement Learning, 2020**

Md Mahmudul Hasan

Anglia Ruskin University, PhD thesis

**Multi-Objective Reinforcement Learning for Infectious Disease Control with Application to COVID-19 Spread, 2020**

Runzhe Wan, Xinyu Zhang, Rui Song

Department of Statistics, North Carolina State University