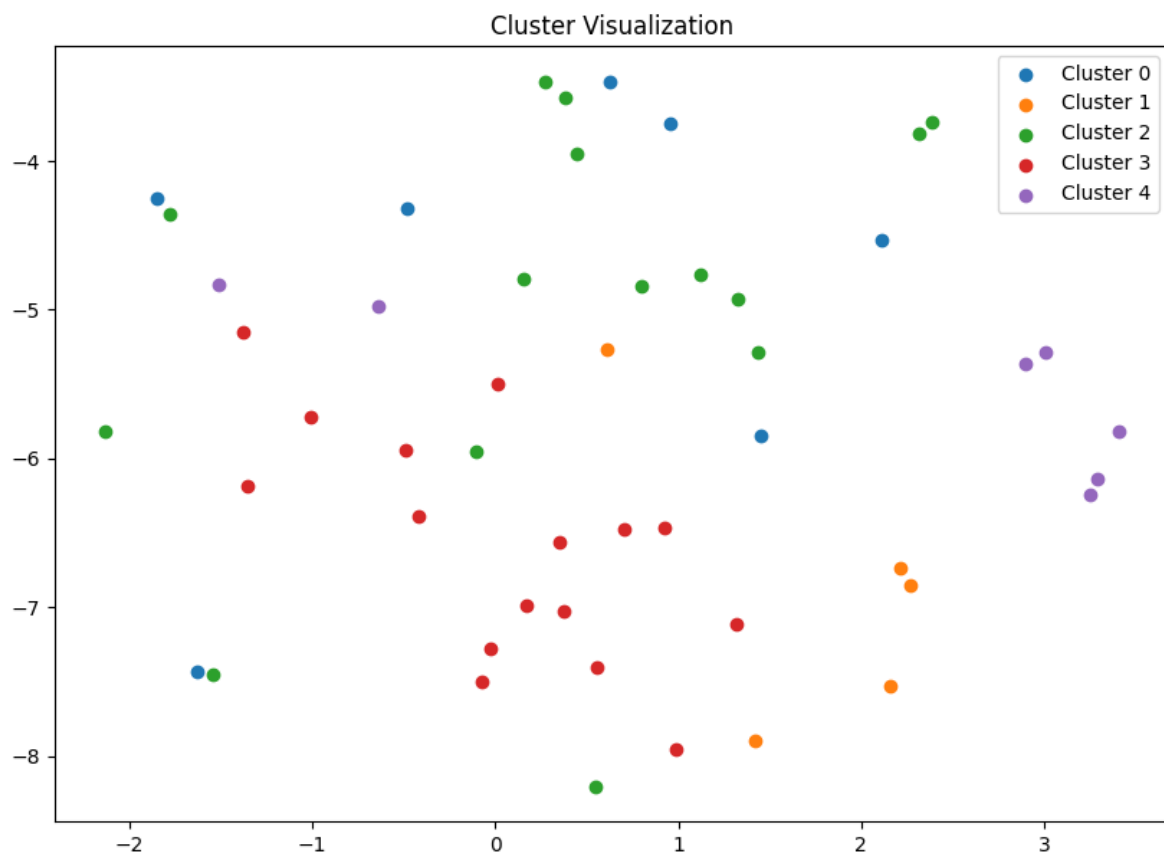


Clustered Papers Report

This report provides clustering results and a visualization of the paper clusters.



Cluster 0

Title: Optimal Dispersion of Silent Robots in a Ring

Authors: Bibhuti Das, Barun Gorain, Kaushik Mondal, Krishnendu Mukhopadhyaya, Supantha Pandit

DOI: <http://arxiv.org/abs/2408.05491v1>

Title: Modular Robots: extending the capabilities of one robot

Authors: Aymen Rachdi, Fedi Zrelli, Amine Kammoun

DOI: <http://arxiv.org/abs/2211.05572v1>

Title: On Robot Revolution and Taxation

Authors: Tshilidzi Marwala

DOI: <http://arxiv.org/abs/1808.01666v1>

Title: A Survey on End-User Robot Programming

Authors: Gopika Ajaykumar, Maureen Steele, Chien-Ming Huang

DOI: <http://arxiv.org/abs/2105.01757v2>

Title: Robot Structure Prior Guided Temporal Attention for Camera-to-Robot Pose Estimation from Image Sequence

Authors: Yang Tian, Jiyao Zhang, Zekai Yin, Hao Dong

DOI: <http://arxiv.org/abs/2307.12106v1>

Title: The Dark Side of Ethical Robots

Authors: Dieter Vanderelst, Alan Winfield

DOI: <http://arxiv.org/abs/1606.02583v1>

Title: Asynchronous Gathering of Robots with Finite Memory on a Circle under Limited Visibility

Authors: Satakshi Ghosh, Avishek Sharma, Pritam Goswami, Buddhadeb Sau

DOI: <http://arxiv.org/abs/2302.07600v1>

Cluster 1

Title: Robot Accident Investigation: a case study in Responsible Robotics

Authors: Alan F. T. Winfield, Katie Winkle, Helena Webb, Ulrik Lyngs, Marina Jirotko, Carl Macrae

DOI: <http://arxiv.org/abs/2005.07474v1>

Title: Utilising Explanations to Mitigate Robot Conversational Failures

Authors: Dimosthenis Kontogiorgos

DOI: <http://arxiv.org/abs/2307.04462v1>

Title: Human-Robot Creative Interactions (HRCI): Exploring Creativity in
Artificial Agents Using a Story-Telling Game

Authors: Eduardo Benitez Sandoval, Ricardo Sosa, Massimiliano Cappuccio, Tomasz Bednarz

DOI: <http://arxiv.org/abs/2202.03702v1>

Title: A Systematic Literature Review of Experiments in Socially Assistive
Robotics using Humanoid Robots

Authors: Floris Erich, Masakazu Hirokawa, Kenji Suzuki

DOI: <http://arxiv.org/abs/1711.05379v1>

Title: Embodiment in Socially Interactive Robots

Authors: Eric Deng, Bilge Mutlu, Maja Mataric

DOI: <http://arxiv.org/abs/1912.00312v1>

Cluster 2

Title: Pattern Formation for Asynchronous Robots without Agreement in Chirality

Authors: Sruti Gan Chaudhuri, Swapnil Ghike, Shrainik Jain, Krishnendu Mukhopadhyaya

DOI: <http://arxiv.org/abs/1403.2625v1>

Title: Formation of General Position by Asynchronous Mobile Robots

Authors: S. Bhagat, S. Gan Chaudhuri, K. Mukhopadhyaya

DOI: <http://arxiv.org/abs/1408.2072v1>

Title: A review of cuspidal serial and parallel manipulators

Authors: Philippe Wenger, Damien Chablat

DOI: <http://arxiv.org/abs/2210.05204v1>

Title: Artificial Intelligence and Systems Theory: Applied to Cooperative
Robots

Authors: Pedro U. Lima, Luis M. M. Custodio

DOI: <http://arxiv.org/abs/cs/0411018v1>

Title: Cuspidal Robots

Authors: Philippe Wenger

DOI: <http://arxiv.org/abs/1610.04080v2>

Title: Graph Neural Networks for Learning Robot Team Coordination

Authors: Amanda Prorok

DOI: <http://arxiv.org/abs/1805.03737v2>

Title: Physical Simulation of Inarticulate Robots

Authors: Guillaume Claret, Michaël Mathieu, David Naccache, Guillaume Seguin

DOI: <http://arxiv.org/abs/1104.1546v1>

Title: EPANer Team Description Paper for World Robot Challenge 2020

Authors: Zhi Yan, Nathan Crombez, Li Sun

DOI: <http://arxiv.org/abs/1909.02355v1>

Title: Oblivious Robots Performing Different Tasks on Grid Without Knowing
their Team Members

Authors: Satakshi Ghosh, Avisek Sharma, Pritam Goswami, Buddhadeb Sau

DOI: <http://arxiv.org/abs/2210.00567v2>

Title: Robots Have Been Seen and Not Heard: Effects of Consequential Sounds on
Human-Perception of Robots

Authors: Aimee Allen, Tom Drummond, Dana Kulic

DOI: <http://arxiv.org/abs/2406.02938v1>

Title: Swarm Relays: Distributed Self-Healing Ground-and-Air Connectivity
Chains

Authors: Vivek Shankar Varadharajan, David St-Onge, Bram Adams, Giovanni Beltrame

DOI: <http://arxiv.org/abs/1909.10496v2>

Title: Simplifying Robot Programming using Augmented Reality and End-User
Development

Authors: Enes Yigitbas, Ivan Jovanovikj, Gregor Engels

DOI: <http://arxiv.org/abs/2106.07944v1>

Title: Decentralized Probabilistic Multi-Robot Collision Avoidance Using
Buffered Uncertainty-Aware Voronoi Cells

Authors: Hai Zhu, Bruno Brito, Javier Alonso-Mora

DOI: <http://arxiv.org/abs/2201.04012v1>

Title: Omnidirectional robot modeling and simulation

Authors: Sandro Costa Magalhães, António Paulo Moreira, Paulo Costa

DOI: <http://arxiv.org/abs/2211.08532v1>

Title: Web-based Experiment on Human Performance in Dual-Robot Teleoperation

Authors: Yuhui Wan, Chengxu Zhou

DOI: <http://arxiv.org/abs/2212.06462v1>

Cluster 3

Title: Game-Theoretic Modeling of Human Adaptation in Human-Robot Collaboration

Authors: Stefanos Nikolaidis, Swaprava Nath, Ariel D. Procaccia, Siddhartha Srinivasa

DOI: <http://arxiv.org/abs/1701.07790v2>

Title: Animation Techniques in Human-Robot Interaction User Studies: a
Systematic Literature Review

Authors: Trenton Schulz, Jim Torresen, Jo Herstad

DOI: <http://arxiv.org/abs/1812.06784v4>

Title: Robots that Take Advantage of Human Trust

Authors: Dylan P. Losey, Dorsa Sadigh

DOI: <http://arxiv.org/abs/1909.05777v1>

Title: Loosely Coupled Payload Transport System with Robot Replacement

Authors: Pulkit Verma, Rahul Tallamraju, Abhay Rawat, Subhasis Chand, Kamalakar Karlapalem

DOI: <http://arxiv.org/abs/1904.03049v2>

Title: Robot Vitals and Robot Health: Towards Systematically Quantifying
Runtime Performance Degradation in Robots Under Adverse Conditions

Authors: Aniketh Ramesh, Rustam Stolkin, Manolis Chiou

DOI: <http://arxiv.org/abs/2207.01684v1>

Title: Come Closer: The Effects of Robot Personality on Human Proxemics
Behaviours

Authors: Meriam Moujahid, David A. Robb, Christian Dondrup, Helen Hastie

DOI: <http://arxiv.org/abs/2309.02979v1>

Title: Effects of Interruptibility-Aware Robot Behavior

Authors: Siddhartha Banerjee, Andrew Silva, Karen Feigh, Sonia Chernova

DOI: <http://arxiv.org/abs/1804.06383v1>

Title: Recent Advances in Human-Robot Collaboration Towards Joint Action

Authors: Yeshasvi Tirupachuri, Gabriele Nava, Lorenzo Rapetti, Claudia Latella, Kourosh Darvish, Daniele Pucci

DOI: <http://arxiv.org/abs/2001.00411v1>

Title: SENSAR: A Visual Tool for Intelligent Robots for Collaborative
Human-Robot Interaction

Authors: Andre Cleaver, Faizan Muhammad, Amel Hassan, Elaine Short, Jivko Sinapov

DOI: <http://arxiv.org/abs/2011.04515v1>

Title: Know Thyself: Transferable Visual Control Policies Through
Robot-Awareness

Authors: Edward S. Hu, Kun Huang, Oleh Rybkin, Dinesh Jayaraman

DOI: <http://arxiv.org/abs/2107.09047v3>

Title: ARROCH: Augmented Reality for Robots Collaborating with a Human

Authors: Kishan Chandan, Vidisha Kudalkar, Xiang Li, Shiqi Zhang

DOI: <http://arxiv.org/abs/2109.10400v2>

Title: Optimization of Humanoid Robot Designs for Human-Robot Ergonomic Payload
Lifting

Authors: Carlotta Sartore, Lorenzo Rapetti, Daniele Pucci

DOI: <http://arxiv.org/abs/2211.13503v1>

Title: A C++ Implementation of a Cartesian Impedance Controller for Robotic
Manipulators

Authors: Matthias Mayr, Julian M. Salt-Ducaju

DOI: <http://arxiv.org/abs/2212.11215v1>

Title: Safe Spot: Perceived safety of dominant and submissive appearances of quadruped robots in human-robot interactions

Authors: Nanami Hashimoto, Emma Hagens, Arkady Zgonnikov, Maria Luce Lupetti

DOI: <http://arxiv.org/abs/2403.05400v1>

Title: Should Collaborative Robots be Transparent?

Authors: Shahabedin Sagheb, Soham Gandhi, Dylan P. Losey

DOI: <http://arxiv.org/abs/2304.11753v2>

Title: Discretization and fitting of nominal data for autonomous robots

Authors: Nuno Mendes, Pedro Neto, Norberto Pires, Altino Loureiro

DOI: <http://arxiv.org/abs/1309.2081v1>

Cluster 4

Title: The Use of Agricultural Robots in Orchard Management

Authors: Qin Zhang, Manoj Karkee, Amy Tabb

DOI: <http://arxiv.org/abs/1907.13114v1>

Title: Robotics in Snow and Ice

Authors: François Pomerleau

DOI: <http://arxiv.org/abs/2208.05095v1>

Title: Medical robotics: where we come from, where we are and where we could go

Authors: Jocelyne Troccaz

DOI: <http://arxiv.org/abs/0808.1661v1>

Title: High-level robot programming based on CAD: dealing with unpredictable environments

Authors: Pedro Neto, Nuno Mendes, Ricardo Araújo, J. Norberto Pires, A. Paulo Moreira

DOI: <http://arxiv.org/abs/1309.2086v1>

Title: Fog Robotics: A Summary, Challenges and Future Scope

Authors: Siva Leela Krishna Chand Gudi, Benjamin Johnston, Mary-Anne Williams

DOI: <http://arxiv.org/abs/1908.04935v1>

Title: Particle robots A new specie of hybrid bio-inspired robotics

Authors: Luis A. Mateos

DOI: <http://arxiv.org/abs/2003.08289v1>

Title: HeRo 2.0: A Low-Cost Robot for Swarm Robotics Research

Authors: Paulo Rezeck, Hector Azpurua, Mauricio FS Correa, Luiz Chaimowicz

DOI: <http://arxiv.org/abs/2202.12391v2>