

Paolo Rocco

Curriculum vitae



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Short CV

Paolo Rocco was born in Busto Arsizio (Italy) in 1966. He received the 'Laurea' degree cum laude in Electronics Engineering and the Doctorate degree in Computer Science and Automation in 1991 and 1995, respectively, both from Politecnico di Milano, Italy.

After a research stay at Georgia Tech, Atlanta, USA, since 1996 he has been with the Department of Electronics, Information and Bioengineering (DEIB) of Politecnico di Milano, where he is currently Full Professor in Systems and Control. He teaches Automatic Control and Robotics courses. From 2013 to 2018 he served as Chair of the BSc and MSc Programs in Automation and Control Engineering at Politecnico di Milano. At present he sits in the Board of Governors of Politecnico di Milano, for the terms 2022-24 and 2025-2027. Since 2023 he has been serving as Head of the Systems and Control research area at DEIB.

Dr. Rocco served in the executive board of SIDRA, the national society of Italian Professors in Automatic Control, of I-RIM, the association of robotics and intelligent machines in Italy, and of ANIPLA, the Italian National Association for the Automation. He also served in the Board of Directors of MADE, the Industry 4.0 Competence Center based in Milano. At present, he sits in the Board of Directors of euRobotics, the association of all stakeholders in robotics in Europe.

Paolo Rocco was a Founding Senior Editor for the IEEE Robotics and Automation Letters and is currently serving as a Senior Editor of the IEEE Transactions on Automation Science and Engineering, as well as an Associate Editor for the IFAC journal Mechatronics and for the International Journal of Robotics Research. His research interests include industrial robotics, with particular reference to collaborative robotics. He is the author of about 250 papers in international journals, book chapters and both international and national conferences. He has been appointed General Chair of the IEEE International Conference on Robotics and Automation (ICRA) 2029 in Milan.

Paolo Rocco is in charge of the MERLIN mechatronics and industrial robotics laboratory. He is currently, and has been in the past, the holder of research contracts with private companies and of some research projects financed by public bodies. The technology transfer activity led to the filing of some patent applications and the creation of the startup Smart Robots, a spinoff of the Politecnico di Milano, of which he is co-founder.

Extended CV

Bio

Paolo Rocco was born in Busto Arsizio (Italy) in 1966.

He is married and has two children.

Education

- 1985: High school scientific degree (60/60) from Liceo Scientifico Statale "A. Tosi", Busto Arsizio, Italy.
- 1991: 'Laurea' degree (equivalent to a MSc degree) (100/100 *cum laude*) in Electronic Engineering from Politecnico di Milano, Italy.
- 1995: Doctorate degree in Computer Science and Automation from Politecnico di Milano, Italy.

Professional experience

- 1991: Internship (8 months) in Tecnospatio, a company active in space robotics
- 1995: Visiting Scholar at the School of Mechanical Engineering of Georgia Tech, Atlanta, USA
- 1996-1998: Researcher (Assistant Professor) in Systems and Control at Politecnico di Milano, Italy
- 1998-2007: Associate Professor in Systems and Control at Politecnico di Milano, Italy
- 2007-present: Full Professor in Systems and Control at Politecnico di Milano, Italy

Academic roles

- 1999-2002: Member of the administrative board of the Department of Electronics and Information at Politecnico di Milano
- 2000-2010: Member of the Board of Professors of the Doctorate Program in Information Technology at Politecnico di Milano
- 2005-2006: Co-chair of a Master in Design of Mechatronic Systems at Politecnico di Milano
- 2007-2010: Vice-chair of the Board of Professors of the Doctorate Program in Information Technology at Politecnico di Milano
- 2007-2012: Secretary (vice-chair) of the BSc and MSc Programs in Automation and Control Engineering at Politecnico di Milano
- 2013-2018: Chair of the BSc and MSc Programs in Automation and Control Engineering at Politecnico di Milano (approximately 1300 students in the five years of the Programs)
- 2022-present: Member of the Board of Governors of Politecnico di Milano
- 2023-present: Head of Systems and Control research area at the Department of Electronics, Information and Bioengineering of Politecnico di Milano (approximately 50 faculties and 180 PhD students and research assignees)

Editorial duties

- 2001-2010: Member of the International Program Committee for the IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM)
- 2004: Co-editor of a special issue on Mechatronics of the IFAC journal "Annual reviews in control"
- 2004-2008: Associate Editor for the IEEE Transactions on Robotics
- 2007-2013: Member of the Conference Editorial Board of the Robotics and Automation Society of the IEEE, serving as Associate Editor for ICRA (IEEE International Conference on Robotics and Automation), the flagship conference of the society
- 2007-2013: Chair of the ANIPLA National Congress on Motion Control (editions 2007, 2010, and 2013) and organizer of several workshop in the same area
- 2009-2011: Associate Editor for IROS (IEEE/RSJ International Conference on Intelligent Robots and Systems)
- 2010-present: Member of the EURON (later EuRobotics) Education and Training Board, in charge of the evaluation of candidates for the PhD Thesis award in Robotics at European level
- 2015-2020: Senior Editor for the journal IEEE Robotics and Automation Letters
- 2016-present: Associate Editor of the IFAC journal Mechatronics
- 2022-present: Senior Editor of the journal IEEE Transactions on Automation Science and Engineering
- 2023-present: Associate Editor of the International Journal of Robotics Research

Organizational duties

- 2003-2017: Member of the executive board of ANIPLA, the Italian National Association for the Automation
- 2011-2016: Member of the executive board of SIDRA, the National Society of Italian Professors in Automatic Control
- 2017-2020 and 2021-present: Member of the Board of Directors of euRobotics, the association of all stakeholders in robotics in Europe
- 2019-2025: Member of the Board of Directors of I-RIM, the Italian Institute of Robotics and Intelligent Machines
- 2019-2021: Member of the Board of Directors of MADE, the Industry 4.0 National Competence Center in Milano
- 2019-2023: Scientific Responsible for the area of projects in MADE, the Industry 4.0 National Competence Center in Milano
- 2020-2023: Member of the Advisory Board of the CLC-South of EIT Manufacturing
- 2020: nominated by the Ministry of University and Research in the panel of five experts for the preparation of the National Research Program in the area of robotics
- 2024-present: Strategic advisor for MADE, the Industry 4.0 National Competence Center in Milano

Projects

- 2002-2009: in charge of several research projects with industrial partners and public bodies (the Lombardy Region, the Italian Ministry for Research and University, the European Commission), for an overall grant of approximately 500 k€
- 2009-2013: person in charge for Politecnico di Milano in the FP7 four years long European Integrating Project ROSETTA (ICT - 230902) on robotics (grant approximately 1 M€)
- 2015: in charge for Politecnico di Milano of a national project on robotics and of an industrial project with a major robotics company, for an overall grant of approximately 260 k€
- 2016-2018: in charge for Politecnico di Milano of several industrial projects with companies, for an overall grant of approximately 750 k€
- 2018-2021: in charge for Politecnico di Milano of a regional project on the cyber physical production systems (grant approximately 170 k€)
- 2019-today: in charge for Politecnico di Milano of industrial projects with companies, for an overall grant of approximately 750 k€, including two projects with Camozzi Automation for 400 k€ overall funding
- 2022-2025: in charge for Politecnico di Milano of the PRIN national project on robotics funded by MUR Co-Mir "Extending Robotic Manipulation Capabilities by Cooperative Mobile and Flexible Multi-Robot", funding of approx. 200 k€
- 2023-2026: in charge for DEIB of Politecnico di Milano of the PNRR extended partnership funded by MUR MICS "Made in Italy Circolare e Sostenibile", funding of approx. 2,300 k€
- 2023-2026: in charge for Politecnico di Milano of the national project funded by MIMIT ARTO "Automatic Robotic for Testing Optimisation", funding of approx. 500 k€

Technology transfer

- Paolo Rocco is co-inventor of the following international patents, filed as extensions of already granted national patents:
 - "Method and device for controlling the motion of one or more collaborative robots" PCT/IB2017/052932
 - "A predictive control method of a robot and related control system" PCT/IB2019/054763

and of the following national patent:

- "Metodo per generare un segnale di consapevolezza di un robot collaborativo e relativo sistema hardware", Italian patent 102018000007934
- Paolo Rocco is co-founder of Smart Robots, a spin-off company of Politecnico di Milano

Scientific qualification

Dr. Rocco's research interests include industrial robotics, physical human-robot interaction, redundant manipulators, use of computer vision in robotics, control of servomechanisms, and mechatronics in general. He is the author of about 250 papers in international journals, book chapters and both international and national conferences. He serves as an expert for

the European Commission and for the Italian Ministry of University and Research for the evaluation of proposals and ongoing projects.

Scientific metrics (updated April 14, 2026):

Scopus: citations 5195, h-index 40

Google Scholar: citations 7597, h-index 48

Awards

- KUKA Innovation Award 2014 (finalist)
- Co-author of a paper, winner of the 2014 Young Author Best Paper Award of the Italian Chapter of the IEEE Robotics and Automation Society, 2014
- Co-author of a paper finalist at IROS 2015 Best Student Paper Award, 2015
- Co-author of a paper finalist at ICRA 2017 Best Student Paper Award, 2017
- euRobotics Technology Transfer Award 2018 (ranked third) with Smart Robots
- Innovation Award MEC SPE 2019 (finalist) with Smart Robots, ABB, and Vodafone
- CES 2020 Innovation Awards Honoree with Smart Robots
- Co-author of a paper winner of the Best Paper Award at IEEE CASE 2024
- Co-author of a paper finalist at the Best Conference Paper Award at the IFAC Symposium on Robotics, July 2025
- Co-author of a paper winner of the Best Conference Paper Award at I-RIM 3D Conference, October 2025
- Co-Author of a paper awarded with the Young Author Award at the IFAC Joint Conference on Computers, Cognition and Communication (J3C 2025), September 2025
- Appointed General Chair of the IEEE International Conference on Robotics and Automation (ICRA) 2029 in Milan

Publications

Papers in International Journals

[IJ88] C. CELLA, M. RISTIC, M. FARONI, A. M. ZANCHETTIN, P. ROCCO
Adaptive Human-Robot Collaborative Painting Combining Preference-Based Optimization and Dynamic Motion Primitives
IEEE Robotics and Automation Letters, 2026,
DOI: 10.1109/LRA.2026.3683596.

[IJ87] M. PELOSI, M. COSENZA, A. M. ZANCHETTIN, P. ROCCO
Graph-based Reinforcement Learning for Robot Decision Making in Collaborative Robotics
IEEE Robotics and Automation Letters, 2026,
DOI: 10.1109/LRA.2026.3682530.

[IJ86] I. ZAPPA, S. VIGNALI, A.M. ZANCHETTIN, P. ROCCO
Symbolic representation of objects relative poses for robotic manipulation tasks

Engineering Applications of Artificial Intelligence, Vol.163, Article number 112882, 2026.

[IJ85] M. FARONI, A. SPANO, A.M. ZANCHETTIN, P. ROCCO
Learning-based safety-aware task scheduling for efficient human-robot collaboration
IEEE Robotics and Automation Letters, Vol.11, pp. 2226-2233, 2026.

[IJ84] M. COLOMBO, L. BERETTA, A.M. ZANCHETTIN, P. ROCCO
Robotic manipulation of objects through dual-arm handover planning
IEEE Transactions on Automation Science and Engineering, Vol.23, pp. 3156-3168, 2026.

[IJ83] L. FRATINI, N. LUCCI, M. MALAVENDA, E. MONTINI, I. ZAPPA, A.M. ZANCHETTIN, P. ROCCO
A robot-agnostic framework to learn position-force controlled robotic applications
IEEE Transactions on Automation Science and Engineering, Vol.23, pp. 3038-3050, 2026.

[IJ82] A. TAFURO, M. MOLINARO, A.M. ZANCHETTIN, P. ROCCO
Self-supervised vision-driven trajectory planning for intelligent robotic deburring
Machine Intelligence Research, Vol.22, pp. 655-676, 2025.

[IJ81] M. FABREGAT-JAEN, A. PEIDRO, M. COLOMBO, P. ROCCO, O. REINOSO
Topological and spatial analysis of self-motion manifolds for global redundancy resolution in kinematically redundant robots
Mechanism and Machine Theory, 2025,
DOI: 10.1016/j.mechmachtheory.2025.106020.

[IJ80] M. PELOSI, A. M. ZANCHETTIN, P. ROCCO
Combined hidden-Markov model and Siamese network approach for assembly operation recognition and error detection
International Journal of Production Research, 2025,
DOI: 10.1080/00207543.2025.2556484.

[IJ79] A. MONGUZZI, T. DOTTI, L. FATTORELLI, A. M. ZANCHETTIN, P. ROCCO
Optimal model-based path planning for the robotic manipulation of deformable linear objects
Robotics and Computer-Integrated Manufacturing, Vol. 92, Article number 102891, April 2025.

[IJ78] P. FRANCESCHI, D. CASSINELLI, N. PEDROCCHI, M. BESCHI, P. ROCCO
Design of an assistive controller for physical human-robot interaction based on cooperative game theory and human intention estimation
IEEE Transactions on Automation Science and Engineering, Vol.22, pp. 5741-5756, 2025

[IJ77] E. MONTINI, F. DANIELE, L. AGBOMEMEWA, M. CONFALONIERI, V. CUTRONA, A. BETTONI, P. ROCCO, A. FERRARIO
Collaborative robotics: a survey from literature and practitioners perspectives
Journal of Intelligent and Robotic Systems: Theory and Applications, Vol. 110, Article number 117, September 2024.

[IJ76] A. MONGUZZI, A. M. ZANCHETTIN, P. ROCCO
A systematic strategy for the architecture design of collaborative and reconfigurable assembly lines
International Journal of Production Research, Vol. 62, pp. 8880-8903, 2024.

[IJ75] B. LIU, P. ROCCO, A. M. ZANCHETTIN, F. ZHAO, G. JIANG, X. MEI
A real-time hierarchical control method for safe human-robot coexistence
Robotics and Computer-Integrated Manufacturing, Vol. 86, Article number 102666,
April 2024.

[IJ74] A. MONGUZZI, A. M. ZANCHETTIN, P. ROCCO
Sensorless robotized cable contour following and connector detection
Mechatronics, Vol. 97, Article number 103096, February 2024.

[IJ73] H. SHEHAWY, D. PAREYSON, V. CARUSO, S. DE BERNARDI, A. M. ZANCHETTIN, P. ROCCO
Flattening and folding towels with a single-arm robot based on reinforcement learning
Robotics and Autonomous Systems, Vol. 169, Article number 104506, November 2023.

[IJ72] C. MESSERI, A. M. ZANCHETTIN, P. ROCCO, E. GIANOTTI, A. CHIRICO, S. MAGONI, A. GAGGIOLI
On the effects of leader-follower roles in dyadic human-robot synchronisation
IEEE Transactions on Cognitive and Developmental Systems, Vol. 15, pp. 434-443,
June 2023.

[IJ71] B. LACEVIC, A. M. ZANCHETTIN, P. ROCCO
Safe human-robot collaboration via collision checking and explicit representation of danger zones
IEEE Transactions on Automation Science and Engineering, Volume 20, Issue 2, pp. 846-861, April 2023

[IJ70] N. LUCCI, A. MONGUZZI, A. M. ZANCHETTIN, P. ROCCO
Workflow modelling for human-robot collaborative assembly operations
Robotics and Computer-Integrated Manufacturing, Volume 78, December 2022
Article number 102384

[IJ69] A. M. ZANCHETTIN, C. MESSERI, D. CRISTIANTELLI, P. ROCCO
Trajectory optimisation in collaborative robotics based on simulations and genetic algorithms
International Journal of Intelligent Robotics and Applications, Volume 6, Issue 4,
Pages 707-723, December 2022

[IJ68] C. MESSERI, A. BICCHI, A. M. ZANCHETTIN, P. ROCCO
A dynamic task allocation strategy to mitigate the human physical fatigue in collaborative robotics
IEEE Robotics and Automation Letters, Vol. 7, pp. 2178-2185, April 2022
(also presented at ICRA 2022)

[IJ67] D. BAZZI, G. PRIORA, A. M. ZANCHETTIN, P. ROCCO
RRT* and goal-driven variable admittance control for obstacle avoidance in manual guidance applications
IEEE Robotics and Automation Letters, Vol. 7, pp. 1920-1927, April 2022
(also presented at ICRA 2022)

[IJ66] R. MADERNA, M. POZZI, A. M. ZANCHETTIN, P. ROCCO, D. PRATTICCHIZZO
Flexible scheduling and tactile communication for human-robot collaboration
Robotics and Computer Integrated Manufacturing, Vol. 73, Article 102233, February 2022

[IJ65] A. SCIUTTI, F. BATTAGLIA, M. R. FOSSATI, V. CALDERAI, M. G. CATALANO, G. ANTONELLI,
G. M. DI NUNZIO, N. DUBBINI, L. GIARRE, E. MENEGATTI, F. NEGRELLO, F. PASCUCCI,
M. PIVETTI, A. M. ZANCHETTIN, A. BARONCELLI, S. MAJORANA, C. MARCHISIO, B. SICILIANO,
P. ROCCO, G. METTA, C. MELCHIORRI, C. LASCHI, E. GUGLIEMELLI, A. DE LUCA, P. DARIO,

A. BICCHI

Making an opportunity out of a crisis: the inclusive approach of the Italian robotics community

IEEE Robotics and Automation Magazine, Vol. 28, pp. 79-91, December 2021

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LPV-based offline model predictive control for free-floating space robots

IEEE Transactions on Aerospace and Electronic Systems, Vol. 57, pp. 3896-3904, December 2021

[IJ63] C. MESSERI, G. MASOTTI, A. M. ZANCHETTIN, P. ROCCO

Human-robot collaboration: optimizing stress and productivity based on game theory

IEEE Robotics and Automation Letters, Vol. 6, pp. 8061-8068, October 2021
(also presented at IROS 2021)

[IJ62] D. BAZZI, F. ROVEDA, A. M. ZANCHETTIN, P. ROCCO

A unified approach for virtual fixtures and goal-driven variable admittance control in manual guidance applications

IEEE Robotics and Automation Letters, Vol. 6, pp. 6378-6385, October 2021
(also presented at IROS 2021)

[IJ61] R. JIN, P. ROCCO, Y. GENG

Observer-based fixed-time tracking control for space robots in task space

Acta astronautica, Volume 184, July 2021, pp. 35-45

[IJ60] R. JIN, P. ROCCO, Y. GENG

Cartesian trajectory planning of space robots using a multi-objective optimization

Aerospace Science and Technology, Volume 108, January 2021, Article number 106360

[IJ59] A. CASALINO, A. M. ZANCHETTIN, L. PIRODDI, P. ROCCO

Optimal scheduling of human-robot collaborative assembly operations with time Petri nets

IEEE Transactions on Automation Science and Engineering, Vol. 18, pp. 70-84, January 2021

[IJ58] N. LUCCI, B. LACEVIC, A. M. ZANCHETTIN, P. ROCCO

Combining speed and separation monitoring with power and force limiting for safe collaborative robotics applications

IEEE Robotics and Automation Letters, Vol. 5, pp. 6121-6128, October 2020
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[IJ57] D. NICOLIS, F. ALLEVI, P. ROCCO

Operational space model predictive sliding mode control for redundant manipulators

IEEE Transactions on Robotics, Vol. 36, pp. 1348-1355, August 2020

[IJ56] M. PARIGI POLVERINI, S. FORMENTIN, L. MERZAGORA, P. ROCCO

Mixed data-driven and model-based robot implicit force control: a hierarchical approach

IEEE Transactions on Control Systems Technology, Vol. 28, pp. 1258-1271, July 2020

[IJ55] F. FERRAGUTI, R. VILLA, C. TALIGNANI LANDI, A. M. ZANCHETTIN, P. ROCCO, C. SECCHI

A unified architecture for physical and ergonomic human-robot collaboration

Robotica, Vol. 38, pp. 669-683, April 2020

[IJ54] M. PARIGI POLVERINI, A. M. ZANCHETTIN, P. ROCCO

A constraint-based programming approach for robotic assembly skills implementation

Robotics and Computer Integrated Manufacturing, Vol. 59, pp. 69-81, October 2019.

- [IJ53] A. M. ZANCHETTIN, P. ROCCO, R. ROSSI, S. CHIAPPA
Towards an optimal avoidance strategy for collaborative robots
Robotics and Computer Integrated Manufacturing, Vol. 59, pp. 47-55, October 2019.
- [IJ52] A. M. ZANCHETTIN, A. CASALINO, L. PIRODDI, P. ROCCO
Prediction of human activity patterns for human-robot collaborative assembly tasks
IEEE Transactions on Industrial Informatics, Vol. 15, No. 7, pp. 3934-3942, July 2019
- [IJ51] A. CASALINO, C. MESSERI, M. POZZI, A. M. ZANCHETTIN, P. ROCCO, D. PRATTICIZZO
Operator awareness in human-robot collaboration through wearable vibrotactile feedback
IEEE Robotics and Automation Letters, Vol. 3, No. 4, pp. 4289-4296, October 2018
(also presented at IROS 2018)
- [IJ50] M. RAGAGLIA, A.M. ZANCHETTIN, P. ROCCO
Trajectory generation algorithm for safe human-robot collaboration based on multiple depth sensor measurements
Mechatronics, Vol. 55, pp. 267-281, November 2018
- [IJ49] D. NICOLIS, M. PALUMBO, A. M. ZANCHETTIN, P. ROCCO
Occlusion-free visual servoing for the shared autonomy teleoperation of dual-arm robots
IEEE Robotics and Automation Letters, Vol. 3, No. 2, pp. 796-803, April 2018
(also presented at ICRA 2018)
- [IJ48] M. BUIZZA AVANZINI, A.M. ZANCHETTIN, P. ROCCO
Constrained model predictive control for mobile robotic manipulators
Robotica, Vol. 36, No.1, pp. 19-38, January 2018
- [IJ47] M. PARIGI POLVERINI, A.M. ZANCHETTIN, P. ROCCO
A computationally efficient safety assessment for collaborative robotics applications
Robotics and Computer Integrated Manufacturing, Vol. 46, pp. 25-37, August 2017
- [IJ46] M. PARIGI POLVERINI, D. NICOLIS, A.M. ZANCHETTIN, P. ROCCO
Implicit robot force control based on set invariance
IEEE Robotics and Automation Letters, Vol. 2, No.3, pp. 1288-1295, July 2017
(also presented at ICRA 2017)
- [IJ45] R. ROSSI, A. SANTAMARIA-NAVARRO, J. ANDRADE-CETTO, P. ROCCO
Trajectory generation for unmanned aerial manipulators through quadratic programming
IEEE Robotics and Automation Letters, Vol. 2, No.2, pp. 389-396, April 2017
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Motion planning for robotic manipulators using robust constrained control
Control Engineering Practice, Vol. 59, pp. 127-136, February 2017
- [IJ43] M. RAGAGLIA, A.M. ZANCHETTIN, L. BASCETTA, P. ROCCO
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Robotics and Computer Integrated Manufacturing, Vol. 39, pp. 9-21, June 2016
- [IJ42] A.M. ZANCHETTIN, N.M. CERIANI, P. ROCCO, H. DING, B. MATTHIAS
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IEEE Robotics and Automation Letters, Vol. 1, No. 1, pp. 340-347, January 2016.
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Reactive task adaptation based on hierarchical constraints classification for safe industrial robots
IEEE/ASME Transactions on Mechatronics, Vol. 20, No. 6, pp. 2935-2949, December 2015
- [IJ39] A.M. ZANCHETTIN, B. LACEVIC, P. ROCCO
Passivity-based control of robotic manipulators for safe cooperation with humans
International Journal of Control, Vol. 28, No. 2, pp. 429-439, February 2015.
- [IJ38] G. BUIZZA AVANZINI, N.M. CERIANI, A.M. ZANCHETTIN, P. ROCCO, L. BASCETTA
Safety control of industrial robots based on a distributed distance sensor
IEEE Transactions on Control Systems Technology, Vol. 22, No. 6, pp. 2127-2140, November 2014.
- [IJ37] A.M. ZANCHETTIN, L. BASCETTA, P. ROCCO
Achieving humanlike motion: resolving redundancy for anthropomorphic industrial manipulators
IEEE Robotics and Automation Magazine, Vol. 20, No. 4, pp. 131-138, December 2013.
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Safety assessment and control of robotic manipulators using danger field
IEEE Transactions on Robotics, Vol. 29, No. 5, pp. 1257-1270, October 2013.
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Robotica, Vol. 31, No. 7, pp. 1143-1153, October 2013
- [IJ33] B. LACEVIC, P. ROCCO
Safety-Oriented Path Planning for Articulated Robots
Robotica, Vol. 31, No. 6, pp. 861-874, September 2013.
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Velocity control of a washing machine: a mechatronic approach
Mechatronics, Vol. 22, No. 6, pp. 778-787, September 2012.
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IEEE Transactions on Robotics , Vol. 28, No. 2, pp. 514-521, April 2012.
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IEEE Transactions on Robotics , Vol. 26, No. 1, pp. 180-187, February 2010.

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Mechatronics, Vol. 20, No. 1, pp. 85-101, February 2010

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IEEE Transactions on Control Systems Technology , Vol. 18, No. 3, pp. 559-573, May 2010.

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IEEE Transactions on Robotics , Vol. 22, No. 4, pp. 818-830, August 2006.

[IJ23] L. BASCETTA, P. ROCCO.

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