INDEX TO AUTHORS OF PAPERS TO VOLUME 12

Allgeuer, H. Control strategy for a redundant PUMA manipulator, 361–369

Ananthanarayanan, S. P., Goldenberg, A. A. and Mylopoulos, J. A qualitative theoretical framework for 'common-sense' based multiple contact robotic manipulation, 175–186

Arimoto, S. and Naniwa, T. Learning control for robot motion under geometric end-point constraint, 101–108

Backes, P. G., Beahan, J., Long, M. K., Steele, R. D., Bon, B. and Zimmerman, W. A prototype ground-remote telerobot control system, 481–490

Badcock, J. M. and Jarvis, R. A. Wire-frame modelling of polyhedral objects from rangefinder data, 65–75

Basu, A. See Elnagar and Basu

Basu, A. See Korayem and Basu

Beahan, J. See Backes, Beahan, Long, Steele, Bon and Zimmerman

Bidaud, P. See Fontaine and Bidaud

Bidaud, P. See Mavroidis, Ouezdou and Bidaud

Bien, Z. See Lee and Bien

Bon, B. See Backes, Beahan, Long, Steele, Bon and Zimmerman

Boudihir, M. E., Dufaut, M. and Husson, R. A vision system for mobile robot navigation, 77–89

Chan, R. H. T., Tam, P. K. S. and Leung, D. N. K. Solving the motion planning problem by using neural networks, 323–333

Chen, Z. and Huang, C-M. Terrain Exploration of a Sensor-Based Robot Moving Among Unknown Obstacles of Polygonal Shape, 33–44

Cheng, R. M. H. See Hemami, Mehrabi and Cheng

Cho, H. S. See Cho and Cho

Cho, H. S. See Koh, Kim and Cho

Cho, H. S. See Shin and Cho

Cho, Y. C. and Cho, H. S. A stereo vision-based obstacle detecting method for mobile robot navigation, 203–216

Clark, E. See Lee and Clark

Curk, B. See Jezernik, Curk and Harnik

Daneshmend, L. See Hayward, Daneshmend and Nilakantan

DeSantis, R. M. and Krau, S. Bang bang motion control of a Cartesian crane, 449–454

Dufaut, M. See Boudihir, Dufaut and Husson

Ellis, R. E., Ganeshan, S. R. and Lederman, S. J. A tactile sensor based on thin-plate deformation, 343–351

ElMaraghy, H. A. See Jankowski and ElMaraghy

Elnagar, A. and Basu, A. Piecewise smooth and safe trajectory planning, 299–307

Fant, E. W. and Tran, S. L. Robotic arm self-taught path planning using transportation model heuristics, 17–21

Fenton, R. G. See Xi and Fenton

Filaretov, V. F. See Vukobratović, Filaretov and Korzun

Fontaine, D. and Bidaud, P. Design and implementation of an inductive learning control system for a manipulator gripper, 187–192

Fontaine, J. G. See Gorce, Villard and Fontaine

Ganeshan, S. R. See Ellis, Ganeshan and Lederman

https://doi.org/10.1017/S0263574700017173 Published online by Cambridge University Press

Gershon, D. Introduction to the special issue: Intelligent control for manipulation, 97–99

Goldenberg, A. A. See Ananthanarayanan, Goldenberg and Mylopoulos

Gong, S-W. See Red and Gong

Gorce, P., Villard, C. and Fontaine, J. G. Grasping, coordination and optimal force distribution in multifingered mechanisms, 243–251

Grupen, R. A. and Weiss, R. S. Integrated control for interpreting and manipulating the robot environment, 165–174

Harnik, J. See Jezernik, Curk and Harnik

Hayward, V., Daneshmend, L. and Nilakantan, A. Trajectory generation and control for automatic manipulation, 115–125

Hemami, A., Mehrabi, M. G. and Cheng, R. M. H. Optimal kinematic path tracking control of mobile robots with front steering, 563–568

Huang, C.-M. See Chen and Huang

Husson, R. See Boudihir, Dufaut and Husson

Jagannathan, S., Zhu, S. Q. and Lewis, F. L. Path planning and control of a mobile base with nonholonomic constraints, 529–539

Jamshidi, M. Introduction to the special issue: telerobotics & mobile robots for space applications, 479

Jamshidi, M. See Martinez, Tunstel and Jamshidi

Jankowski, K. P. and ElMaraghy, H. A. Inverse dynamics and feedforward controllers for high precision position/force tracking of flexible joint robots, 227–241

Jarvis, R. A. See Badcock and Jarvis

Jee, W-S. See Suh, Kang, Jee, Jung and Kim

Jezernik, K., Curk, B. and Harnik, J. Observer-based sliding mode control of a robotic manipulator, 443–448

Jung, M-Y. See Suh, Kang, Jee, Jung and Kim

Kang, J-K. See Suh, Kang, Jee, Jung and Kim

Kim, J. S. See Kyoung, Kim and Cho

Kim, K-S. See Suh, Kang, Jee, Jung and Kim

Koditschek, D. E. An approach to autonomous robot assembly, 137–155

Koh, K. C., Kim, J. S. and Cho, H. S. A position estimation system for mobile robots using a monocular image of a 3-D landmark, 431–441

Korayem, M. H. and Basu, A. Formulation and numerical solution of elastic robot dynamic motion with maximum load carrying capacities, 253–261

Korzun, A. I. See Vukobratović, Filaretov and Korzun

Krau, S. See DeSantis and Krau

Kyriakopoulos, K. J. and Saridis, G. N. Minimum jerk for trajectory planning and control, 109–113

Last, M. See Maimon and Last

Lederman, S. J. See Ellis, Ganeshan and Lederman

Lee, B. R. and Ro, P. I. Path finding and grasp planning for robotic assembly, 353–360

Lee, G. K. F. and Clark, E. A discrete-time virtual passive control algorithm for large space systems, 513–519

Lee, J-J. See Shin and Lee

Lee, Y. J. and Bien, Z. A hierarchical strategy for planning crab gaits of a quadruped walking robot, 23–31

Leung, D. N. K. See Chan, Tam and Leung

Lewis, F. L. See Jagannathan, Zhu and Lewis

Li, Y. F. Characteristics and signal processing of a proximity sensor, 335–341

Linnett, J. A. See Wang, Linnett and Roberts

Long, M. K. See Backes, Beahan, Long, Steele, Bon and Zimmerman

https://doi.org/10.1017/S0263574700017173 Published online by Cambridge University Press

Lumia, R. Using NASREM for real-time sensory interactive robot control, 127–135

Lumia, R. Using NASREM for telerobot control system development, 505–512

Maimon, O. and Last, M. Information-efficient robotic control, 157–163

Martinez, A., Tunstel, E. and Jamshidi, M. Fuzzy logic based collision avoidance for a mobile robot, 521–527

Mavroidis, C., Ouezdou, F. B. and Bidaud, P. Inverse kinematics of six-degree of freedom "general" and "special" manipulators using symbolic computation, 421–430

Medved, V. Towards a virtual reality-assisted movement diagnostics—an outline, 55–57

Mehdian, M. and Rahnejat, H. A dexterous anthropomorphic hand for robotic and prosthetic applications, 455–463

Mehrabi, M. G. See Hemami, Mehrabi and Cheng

Mylopoulos, J. See Ananthanarayanan, Goldenberg and Mylopoulos

Naniwa, T. See Arimoto and Naniwa

Nilakantan, A. See Hayward, Daneshmend and Nilakantan

Odeberg, H. Fusing sensor information using fuzzy measures, 465–472

Oh, S. J. See Pham and Oh

Ouezdou, F. B. See Mavroidis, Ouezdou and Bidaud

Petrović, T. See Potkonjak and Petrović

Pham, D. T. and Oh, S. J. Adaptive control of a robot using neural networks, 553–561

Pin, F. G. and Watanabe, Y. Navigation of mobile robots using a fuzzy behaviorist approach and custom-designed fuzzy inferencing boards, 491–503

Potkonjak, V. and Petrović, T. Contribution to robots control with parallel degrees of freedom, 569–573

Rahnejat, H. See Mehdian and Rahnejat

Red, W. E. and Gong, S-W. Automated inverse-kinematics for robot off-line programming, 45–53

Ro, P. I. See Lee and Ro

Roberts, J. W. See Wang, Linnett and Roberts

Rogalinski, P. An approach to automatic robots programming in the flexible manufacturing cell, 263–279

Saridis, G. N. See Kyriakopoulos and Saridis

Sasaki, S. On numerical techniques for kinematics problems of general serial-link robot manipulators, 309–322

Shin, C. K. and Cho, H. S. On the generation of robotic assembly sequences based on separability and assembly motion stability, 7–15

Shin, J-H. and Lee, J-J. Dynamic control with adaptive identification for free-flying space robots in joint space, 541–551

Steele, R. D. See Backes, Beahan, Long, Steele, Bon and Zimmerman

Suh, S-H., Kang, J-K., Jee, W-S., Jung, M-Y. and Kim, K-S. CAD-MAP and estimation of ALV positions in mountainous areas, 287–297

Tam, P. K. S. See Chan, Tam and Leung

Tran, S. L. See Fant and Tran

Tunstel, E. See Martinez, Tunstel and Jamshidi

Uzmay, I. and Yildirim, S. Geometric and algebraic approach to the inverse kinematics of four-link manipulators, 59–64

Villard, C. See Gorce, Villard and Fontaine

Vukobratović, M. K., Filaretov, V. F. and Korzun, A. I. A unified approach to mathematical modelling of robotic manipulator dynamics, 411–420

Wang, Y., Linnett, J. A. and Roberts, J. Kinematics, kinematic constraints and path planning for wheeled mobile robots, 391–400

Wang, Y., Linnett, J. A. and Roberts, J. W. Motion feasibility of a wheeled vehicle with a steering angle limit, 217–226

https://doi.org/10.1017/S0263574700017173 Published online by Cambridge University Press

Watanabe, Y. See Pin and Watanabe

Weiss, R. S. See Grupen and Weiss

Wu, C-J. A numerical approach for time-optimal path-planning of kinematically redundant manipulators, 401–410

Xi, F. and Fenton, R. G. On flexible link manipulators: modeling analysis using the algebra of rotations, 371–381

Yildirim, S. See Uzmay and Yildirim

Zhu, S. Q. See Jagannathan, Zhu and Lewis

Zimmerman, W. See Backes, Beahan, Long, Steele, Bon and Zimmerman

https://doi.org/10.1017/S0263574700017173 Published online by Cambridge University Press

INDEX TO BOOKS REVIEWED IN VOLUME 12

The name of the reviewer of the book is given in parentheses

Beerel, A. *Expert Systems in Business: Real World Applications,* (A. M. Andrew), 93

Chester, M. *Neural Networks—A Tutorial,* (R. Mitchell), 281

Faugeras, O. *Three-Dimensional Computer Vision: A Geometric Viewpoint,* (T. Owen), 475

Gonzalez, A. J. and Dankel, D. D. *The Engineering of Knowledge-Based Systems: Theory and Practice,* (T. Owen), 282

Harri-Augstein, S. and Thomas, L. *Learning Conversations,* (M. Elstob), 475

Hirose, S. *Biologically Inspired Robots: Snake-Like Locomotors and Manipulators,* (T. Owen), 282

Ito, Y. *Human-Intelligence-Based Manufacturing,* (T. Owen), 282

Pack Kaelbling, L. *Learning in Embedded Systems,* (A. M. Andrew), 93–94

Van de Velde, W. *Towards Learning Robots,* (T. Owen), 475

https://doi.org/10.1017/S0263574700017173 Published online by Cambridge University Press