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Qualitative test and force optimization of 3-D frictional form-closure grasps using linear programming

Yun-Hui Liu

IEEE Transactions on Robotics and Automation

Year: 1999, Volume: 15, Issue: 1

Pages: 163 - 173, DOI: 10.1109/70.744611

Cited by: Papers (135) | Patents (1)

IEEE Journals & Magazines

Abstract

(320 Kb)

☐

Dynamic sliding PID control for tracking of robot manipulators: theory and experiments

V. Parra-Vega; S. Arimoto; Yun-Hui Liu; G. Hirzinger; P. Akella

IEEE Transactions on Robotics and Automation

Year: 2003, Volume: 19, Issue: 6

Pages: 967 - 976, DOI: 10.1109/TRA.2003.819600

Cited by: Papers (134)

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Abstract

(756 Kb)

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Uncalibrated visual servoing of robots using a depth-independent interaction matrix

Yun-Hui Liu; Hesheng Wang; Chengyou Wang; Kin Kwan Lam

IEEE Transactions on Robotics

Year: 2006, Volume: 22, Issue: 4

Pages: 804 - 817, DOI: 10.1109/TRO.2006.878788

Cited by: Papers (120)

IEEE Journals & Magazines

Abstract

(1819 Kb)

☐

Haptic information in Internet-based teleoperation

I. Elhajj; N. Xi; Wai Keung Fung; Yun Hui Liu; W. J. Li; T. Kaga; T. Fukuda

IEEE/ASME Transactions on Mechatronics

Year: 2001, Volume: 6, Issue: 3

Pages: 295 - 304, DOI: 10.1109/3516.951367

Cited by: Papers (77)

IEEE Journals & Magazines

Abstract

(192 Kb)

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A complete and efficient algorithm for searching 3-D form-closure grasps in the discrete domain

Yun-Hui Liu; Miu-Ling Lam; D. Ding

IEEE Transactions on Robotics

Year: 2004, Volume: 20, Issue: 5

Pages: 805 - 816, DOI: 10.1109/TRO.2004.829500

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Abstract

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☐ **Supermedia-enhanced Internet-based telerobotics**

I. Elhajj; Ning Xi; Wai Keung Fung; Yun-Hui Liu; Y. Hasegawa; T. Fukuda
Proceedings of the IEEE
Year: 2003, Volume: 91, Issue: 3
Pages: 396 - 421, DOI: 10.1109/JPROC.2003.809203
Cited by: Papers (64) | Patents (22)

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Abstract

(2047 Kb)

☐ **Adaptive Visual Servoing Using Point and Line Features With an Uncalibrated Eye-in-Hand Camera**

Hesheng Wang; Yun-Hui Liu; Dongxiang Zhou
IEEE Transactions on Robotics
Year: 2008, Volume: 24, Issue: 4
Pages: 843 - 857, DOI: 10.1109/TRO.2008.2001356
Cited by: Papers (61)

IEEE Journals & Magazines

Abstract

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☐ **Dynamic Visual Tracking for Manipulators Using an Uncalibrated Fixed Camera**

Hesheng Wang; Yun-Hui Liu; Dongxiang Zhou
IEEE Transactions on Robotics
Year: 2007, Volume: 23, Issue: 3
Pages: 610 - 617, DOI: 10.1109/TRO.2007.895091
Cited by: Papers (52)

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Abstract

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☐ **Cooperation control of multiple manipulators with passive joints**

Yun-Hui Liu; Yangsheng Xu; M. Bergerman
IEEE Transactions on Robotics and Automation
Year: 1999, Volume: 15, Issue: 2
Pages: 258 - 267, DOI: 10.1109/70.760347
Cited by: Papers (48) | Patents (1)

IEEE Journals & Magazines

Abstract

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☐ **Asymptotic trajectory tracking of manipulators using uncalibrated visual feedback**

Yantao Shen; Dong Sun; Yun-Hui Liu; Kejie Li
IEEE/ASME Transactions on Mechatronics
Year: 2003, Volume: 8, Issue: 1
Pages: 87 - 98, DOI: 10.1109/TMECH.2003.809133
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Abstract

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☐ **Automatic selection of fixturing surfaces and fixturing points for polyhedral workpieces**

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IEEE Transactions on Robotics and Automation
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Abstract

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- ☐ **Real-time control of Internet based teleoperation with force reflection**
I. Elhajj; N. Xi; Yun-Hui Liu
Proceedings 2000 ICRA, Millennium Conference, IEEE International Conference on Robotics and Automation. Symposia Proceedings (Cat. No.00CH37065)
Year: 2000, Volume: 4
Pages: 3284 - 3289 vol.4, DOI: 10.1109/ROBOT.2000.845169
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Abstract (496 Kb)

- ☐ **Distributively controlling two robots handling an object in the task space without any communication**
Yun-Hui Liu; S. Arimoto
IEEE Transactions on Automatic Control
Year: 1996, Volume: 41, Issue: 8
Pages: 1193 - 1198, DOI: 10.1109/9.533683
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Abstract (504 Kb)

- ☐ **Model-based adaptive hybrid control for geometrically constrained robots**
S. Arimoto; Y. H. Liu; T. Naniwa
[1993] Proceedings IEEE International Conference on Robotics and Automation
Year: 1993
Pages: 618 - 623 vol.1, DOI: 10.1109/ROBOT.1993.292047
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Abstract (424 Kb)

- ☐ **Cooperative teleoperation of a multirobot system with force reflection via Internet**
Wang-tai Lo; Yunhui Liu; I. H. Elhajj; Ning Xi; Yuechao Wang; T. Fukuda
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Pages: 661 - 670, DOI: 10.1109/TMECH.2004.839040
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- ☐ **Uncalibrated Visual Tracking Control Without Visual Velocity**
Hesheng Wang; Yun-Hui Liu; Weidong Chen
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Year: 2010, Volume: 18, Issue: 6
Pages: 1359 - 1370, DOI: 10.1109/TCST.2010.2041457
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Abstract (878 Kb)

- ☐ **A New Approach to Dynamic Eye-in-Hand Visual Tracking Using Nonlinear Observers**
Hesheng Wang; Yun-Hui Liu; Weidong Chen; Zhongli Wang
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Year: 2011, Volume: 16, Issue: 2
Pages: 387 - 394, DOI: 10.1109/TMECH.2009.2039941
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Abstract (256 Kb)

- ☐ **A practical algorithm for planning collision-free coordinated motion of multiple mobile robots**
Y. H. Liu; S. Kuroda; T. Naniwa; H. Nohara; S. Arimoto

T. -H. Liu, S. Kuroda, T. Naito, H. Nishino, S. Arimoto
Proceedings, 1989 International Conference on Robotics and Automation
Year: 1989
Pages: 1427 - 1432 vol.3, DOI: 10.1109/ROBOT.1989.100179
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Abstract (500 Kb)

☐ **Development and application of ultrasonic surgical instruments**

Dong Sun; Z. Y. Zhou; Y. H. Liu; W. Z. Shen
IEEE Transactions on Biomedical Engineering
Year: 1997, Volume: 44, Issue: 6
Pages: 462 - 467, DOI: 10.1109/10.581934
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Abstract (109 Kb)

☐ **Proposal of tangent graph and extended tangent graph for path planning of mobile robots**

Y. -H. Liu; S. Arimoto
Proceedings. 1991 IEEE International Conference on Robotics and Automation
Year: 1991
Pages: 312 - 317 vol.1, DOI: 10.1109/ROBOT.1991.131594
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Abstract (520 Kb)

☐ **Delay-dependent/delay-independent stability of linear systems with multiple time-varying delays**

Bugong Xu; Yun-Hui Liu
IEEE Transactions on Automatic Control
Year: 2003, Volume: 48, Issue: 4
Pages: 697 - 701, DOI: 10.1109/TAC.2003.809762
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Abstract (368 Kb)

☐ **An algorithm for extrinsic parameters calibration of a camera and a laser range finder using line features**

Ganhua Li; Yunhui Liu; Li Dong; Xuanping Cai; Dongxiang Zhou
2007 IEEE/RSJ International Conference on Intelligent Robots and Systems
Year: 2007
Pages: 3854 - 3859, DOI: 10.1109/IROS.2007.4399041
Cited by: Papers (21)

IEEE Conference Publications

Abstract (952 Kb)

☐ **Modeling and control of Internet based cooperative teleoperation**

I. Elhajj; N. Xi; W. K. Fung; Y. H. Liu; Y. Hasegawa; T. Fukuda
Proceedings 2001 ICRA. IEEE International Conference on Robotics and Automation (Cat. No.01CH37164)
Year: 2001, Volume: 1
Pages: 662 - 667 vol.1, DOI: 10.1109/ROBOT.2001.932626
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Abstract (483 Kb)

☐ **Model-based adaptive hybrid control for manipulators under multiple geometric constraints**

Yun-Hui Liu; K. Kitagaki; T. Ogasawara; S. Arimoto
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Year: 1999, Volume: 7, Issue: 1
Pages: 97 - 109, DOI: 10.1109/87.736761
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Abstract (692 Kb)

☐ **Finding the shortest path of a disc among polygonal obstacles using a radius-independent graph**

Yun-Hui Liu; S. Arimoto
IEEE Transactions on Robotics and Automation
Year: 1995, Volume: 11, Issue: 5
Pages: 682 - 691, DOI: 10.1109/70.466615
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Abstract (896 Kb)

☐ **Computation of fingertip positions for a form-closure grasp**

Dan Ding; Yun-Hui Liu; J. Zhang; A. Knoll
Proceedings 2001 ICRA. IEEE International Conference on Robotics and Automation (Cat. No.01CH37164)
Year: 2001, Volume: 3
Pages: 2217 - 2222 vol.3, DOI: 10.1109/ROBOT.2001.932952
Cited by: Papers (16) | Patents (2)

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Abstract (404 Kb)

☐ **A Simple and Parallel Algorithm for Real-Time Robot Localization by Fusing Monocular Vision and Odometry/AHRS Sensors**

Kai Wang; Yun-Hui Liu; Luyang Li
IEEE/ASME Transactions on Mechatronics
Year: 2014, Volume: 19, Issue: 4
Pages: 1447 - 1457, DOI: 10.1109/TMECH.2014.2298247
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☐ **Multi-site Internet-based cooperative control of robotic operations**

I. Elhaji; J. Tan; N. Xi; W. K. Fung; Y. H. Liu; T. Kaga; Y. Hasegawa; T. Fukuda
Proceedings. 2000 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2000) (Cat. No.00CH37113)
Year: 2000, Volume: 2
Pages: 826 - 831 vol.2, DOI: 10.1109/IROS.2000.893121
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Abstract (484 Kb)

☐ **Computing n-finger force-closure grasps on polygonal objects**

Yun-Hui Liu
Proceedings. 1998 IEEE International Conference on Robotics and Automation (Cat. No.98CH36146)
Year: 1998, Volume: 3
Pages: 2734 - 2739 vol.3, DOI: 10.1109/ROBOT.1998.680759
Cited by: Papers (13)

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Abstract (472 Kb)

☐ **An Efficient Face Normalization Algorithm Based on Eyes Detection**

Ganhua Li; Xuanping Cai; Xianshuai Li; Yunhui Liu
2006 IEEE/RSJ International Conference on Intelligent Robots and Systems
Year: 2006

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Abstract

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☐ **Computation of the tangent graph of polygonal obstacles by moving-line processing**

Yun-Hui Liu; S. Arimoto

IEEE Transactions on Robotics and Automation

Year: 1994, Volume: 10, Issue: 6

Pages: 823 - 830, DOI: 10.1109/70.338536

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Abstract

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☐ **Adaptive control for holonomically constrained robots: time-invariant and time-variant cases**

Yun-Hui Liu; S. Arimoto; K. Kitagaki

Proceedings of 1995 IEEE International Conference on Robotics and Automation

Year: 1995, Volume: 1

Pages: 905 - 912 vol.1, DOI: 10.1109/ROBOT.1995.525398

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Abstract

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☐ **Model-Free Visually Servoed Deformation Control of Elastic Objects by Robot Manipulators**

David Navarro-Alarcón; Yun-Hui Liu; José Guadalupe Romero; Peng Li

IEEE Transactions on Robotics

Year: 2013, Volume: 29, Issue: 6

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Abstract

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☐ **An efficient algorithm for computing a 3D form-closure grasp**

Dan Ding; Yun-Hui Liu; Yan-Tao Shen; Guo-Liang Xiang

Proceedings. 2000 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2000) (Cat. No.00CH37113)

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Pages: 1223 - 1228 vol.2, DOI: 10.1109/IROS.2000.893186

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Abstract

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☐ **Tele-coordinated control of multi-robot systems via the Internet**

I. Elhajj; Chow Man Kit; Yun Hui Liu; Ning Xi; A. Goradia; T. Fukuda

2003 IEEE International Conference on Robotics and Automation (Cat. No.03CH37422)

Year: 2003, Volume: 2

Pages: 1646 - 1652 vol.2, DOI: 10.1109/ROBOT.2003.1241830

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Abstract

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☐ **Modeling and cooperation of two-arm robotic system manipulating a deformable object**

Dong Sun; Xiaolun Shi; Yunhui Liu

Proceedings of IEEE International Conference on Robotics and Automation

Year: 1996, Volume: 3

Pages: 2346 - 2351 vol.3, DOI: 10.1109/ROBOT.1996.506514

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Abstract (408 Kb)

☐ **A force control based cell injection approach in a bio-robotics system**

Yu Xie; Dong Sun; Chong Liu; Shuk H. Cheng; Yun H. Liu
2009 IEEE International Conference on Robotics and Automation
Year: 2009
Pages: 3443 - 3448, DOI: 10.1109/ROBOT.2009.5152519
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Abstract (408 Kb)

☐ **MIDS: micro input devices system using MEMS sensors**

A. H. F. Lam; W. J. Li; Yunhui Liu; Ning Xi
IEEE/RSJ International Conference on Intelligent Robots and Systems
Year: 2002, Volume: 2
Pages: 1184 - 1189 vol.2, DOI: 10.1109/IRDS.2002.1043893
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☐ **Cooperative control of a two-manipulator system handling a general flexible object**

Dong Sun; Yunhui Liu; J. K. Mills
Intelligent Robots and Systems, 1997. IROS '97., Proceedings of the 1997 IEEE/RSJ International Conference on
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Abstract (492 Kb)

☐ **Variable structure robot control undergoing chattering attenuation: adaptive and nonadaptive cases**

V. Parra-Vega; Yun-Hui Liu; S. Arimoto
Proceedings of the 1994 IEEE International Conference on Robotics and Automation
Year: 1994
Pages: 1824 - 1829 vol.3, DOI: 10.1109/ROBOT.1994.351195
Cited by: Papers (10)

IEEE Conference Publications

Abstract (400 Kb)

☐ **3D reconstruction based on SIFT and Harris feature points**

Keju Peng; Xin Chen; Dongxiang Zhou; Yunhui Liu
2009 IEEE International Conference on Robotics and Biomimetics (ROBIO)
Year: 2009
Pages: 960 - 964, DOI: 10.1109/ROBIO.2009.5420735
Cited by: Papers (9) | Patents (1)

IEEE Conference Publications

Abstract (859 Kb)

☐ **ISOGRID: an Efficient Algorithm for Coverage Enhancement in Mobile Sensor Networks**

Miu-ling Lam; Yun-hui Liu
2006 IEEE/RSJ International Conference on Intelligent Robots and Systems
Year: 2006
Pages: 1458 - 1463, DOI: 10.1109/IROS.2006.281971
Cited by: Papers (9)

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Abstract

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☐ **Task driven dynamic QoS based bandwidth allocation for real-time teleoperation via the Internet**

Wai-keung Fung; Ning Xi; Wang-tai Lo; BooHeon Song; Yu Sun; Yun-hui Liu; I. H. Elhajj

Proceedings 2003 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2003) (Cat. No.03CH37453)

Year: 2003, Volume: 2

Pages: 1094 - 1099 vol.2, DOI: 10.1109/IROS.2003.1248790

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Abstract

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☐ **Development of a hospital service robot for transporting task**

W. K. Fung; Y. Y. Leung; M. K. Chow; Y. H. Liu; Y. Xu; W. Chan; T. W. Law; S. K. Tso; C. Y. Wang

IEEE International Conference on Robotics, Intelligent Systems and Signal Processing, 2003. Proceedings, 2003

Year: 2003, Volume: 1

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Abstract

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☐ **Constructing 3D frictional form-closure grasps of polyhedral objects**

Yun-Hui Liu; D. Ding; Shuguo Wang

Proceedings 1999 IEEE International Conference on Robotics and Automation (Cat. No.99CH36288C)

Year: 1999, Volume: 3

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Abstract

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☐ **Transparency and synchronization in supermedia enhanced Internet-based teleoperation**

I. Elhajj; Ning Xi; BooHeon Song; Meng-Meng Yu; Wang Tai Lo; Yun Hui Liu

Proceedings 2002 IEEE International Conference on Robotics and Automation (Cat. No.02CH37292)

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☐ **A flexible algorithm for planning local shortest path of mobile robots based on reachability graph**

Yun-Hui Liu; Suguru Arimoto

EEE International Workshop on Intelligent Robots and Systems, Towards a New Frontier of Applications

Year: 1990

Pages: 749 - 756 vol.2, DOI: 10.1109/IROS.1990.262492

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☐ **Detection of moving targets with a moving camera**

Dongxiang Zhou; Liangfen Wang; Xuanping Cai; Yunhui Liu

2000 IEEE International Conference on Robotics and Biomimetics (ROBIO)

Year: 2009

Pages: 677 - 681, DOI: 10.1109/ROBIO.2009.5420591

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☐ **Uncalibrated visual servoing of planar robots**

Yantao Shen; Guoliang Xiang; Yun-Hui Liu; Kejie Li

Proceedings 2002 IEEE International Conference on Robotics and Automation

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Year: 2002, Volume: 1

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☐ **Qualitative test and force optimization of 3D frictional force-closure grasps using linear programming**

Yun-Hui Liu; Mei Wang

Proceedings. 1998 IEEE International Conference on Robotics and Automation

(Cat. No.98CH36146)

Year: 1998, Volume: 4

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Abstract

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