

Fernando Torres

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

1,937
citations

331670

21
h-index

315739

38
g-index

129
all docs

129
docs citations

129
times ranked

1717
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Generation of Tactile Data From 3D Vision and Target Robotic Grasps. IEEE Transactions on Haptics, 2021, 14, 57-67. | 2.7 | 11 |
| 2 | Towards footwear manufacturing 4.0: shoe sole robotic grasping in assembling operations. International Journal of Advanced Manufacturing Technology, 2021, 114, 811-827. | 3.0 | 7 |
| 3 | Deeper in BLUE. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 98, 207-225. | 3.4 | 9 |
| 4 | Robotic workcell for sole grasping in footwear manufacturing. , 2020, , . | | 3 |
| 5 | Targetless Camera-LiDAR Calibration in Unstructured Environments. IEEE Access, 2020, 8, 143692-143705. | 4.2 | 19 |
| 6 | Assistance Robotics and Biosensors 2019. Sensors, 2020, 20, 1335. | 3.8 | 1 |
| 7 | Clasificaci3n de objetos usando percepci3n bimodal de palpaci3n 2nica en acciones de agarre rob3tico. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 17, 44. | 1.0 | 5 |
| 8 | Virtualization of Robotic Hands Using Mobile Devices 2. Robotics, 2019, 8, 81. | 3.5 | 1 |
| 9 | Framework for Fast Experimental Testing of Autonomous Navigation Algorithms. Applied Sciences (Switzerland), 2019, 9, 1997. | 2.5 | 13 |
| 10 | Fast geometry-based computation of grasping points on three-dimensional point clouds. International Journal of Advanced Robotic Systems, 2019, 16, 172988141983184. | 2.1 | 30 |
| 11 | Learning Spatio Temporal Tactile Features with a ConvLSTM for the Direction Of Slip Detection. Sensors, 2019, 19, 523. | 3.8 | 53 |
| 12 | Tactile-Driven Grasp Stability and Slip Prediction. Robotics, 2019, 8, 85. | 3.5 | 12 |
| 13 | Assistance Robotics and Biosensors. Sensors, 2018, 18, 3502. | 3.8 | 5 |
| 14 | A Vision-Driven Collaborative Robotic Grasping System Tele-Operated by Surface Electromyography. Sensors, 2018, 18, 2366. | 3.8 | 7 |
| 15 | Presenting BLUE: A robot for localization in unstructured environments. , 2018, , . | | 2 |
| 16 | Speed Estimation for Control of an Unmanned Ground Vehicle using Extremely Low Resolution Sensors. , 2018, , . | | 1 |
| 17 | Speed Estimation for Control of an Unmanned Ground Vehicle using Extremely Low Resolution Sensors. , 2018, , . | | 0 |
| 18 | Tactile control based on Gaussian images and its application in bi-manual manipulation of deformable objects. Robotics and Autonomous Systems, 2017, 94, 148-161. | 5.1 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | In-hand recognition and manipulation of elastic objects using a servo-tactile control strategy. Robotics and Computer-Integrated Manufacturing, 2017, 48, 102-112. | 9.9 | 21 |
| 20 | e-Health: Biomedical instrumentation with Arduino. IFAC-PapersOnLine, 2017, 50, 9156-9161. | 0.9 | 12 |
| 21 | Adaptive tactile control for in-hand manipulation tasks of deformable objects. International Journal of Advanced Manufacturing Technology, 2017, 91, 4127-4140. | 3.0 | 11 |
| 22 | Electromechanical delay in the tibialis anterior muscle during time-varying ankle dorsiflexion. , 2017, 2017, 68-71. | | 8 |
| 23 | Oil Spill Detection using Segmentation based Approaches. , 2017, , . | | 0 |
| 24 | DM-UAV: Dexterous Manipulation Unmanned Aerial Vehicle. , 2017, , . | | 1 |
| 25 | 3D Visual Data-Driven Spatiotemporal Deformations for Non-Rigid Object Grasping Using Robot Hands. Sensors, 2016, 16, 640. | 3.8 | 9 |
| 26 | FPGA-based visual control system using dynamic perceptibility. Robotics and Computer-Integrated Manufacturing, 2016, 41, 13-22. | 9.9 | 12 |
| 27 | Computation of Curvature Skeleton to Measure Deformations in Surfaces. Lecture Notes in Electrical Engineering, 2016, , 197-207. | 0.4 | 1 |
| 28 | Competition benchmarking to design and program mobile robots. , 2016, , . | | 1 |
| 29 | FPGA-based architecture for direct visual control robotic systems. Mechatronics, 2016, 39, 204-216. | 3.3 | 19 |
| 30 | Control of Robot Fingers with Adaptable Tactile Servoing to Manipulate Deformable Objects. Advances in Intelligent Systems and Computing, 2016, , 81-92. | 0.6 | 1 |
| 31 | Visual perception for the 3D recognition of geometric pieces in robotic manipulation. International Journal of Advanced Manufacturing Technology, 2016, 83, 1999-2013. | 3.0 | 17 |
| 32 | Autonomous Surface Vessel based on a Low Cost Catamaran Design. , 2016, , . | | 0 |
| 33 | Control and Guidance of Low-Cost Robots via Gesture Perception for Monitoring Activities in the Home. Sensors, 2015, 15, 31268-31292. | 3.8 | 8 |
| 34 | FPGA-based visual control of robot manipulators using dynamic perceptibility. , 2015, , . | | 0 |
| 35 | FPGA-based framework for dynamic visual servoing of robot manipulators. , 2015, , . | | 1 |
| 36 | Experiences on using Arduino for laboratory experiments of Automatic Control and Robotics. IFAC-PapersOnLine, 2015, 48, 105-110. | 0.9 | 52 |

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|----|---|-----|-----------|
| 37 | Study of dexterous robotic grasping for deformable objects manipulation. , 2015, , . | | 6 |
| 38 | Direct visual servoing framework based on optimal control for redundant joint structures. International Journal of Precision Engineering and Manufacturing, 2015, 16, 267-274. | 2.2 | 7 |
| 39 | Optimal control for robot-hand manipulation of an object using dynamic visual servoing. , 2014, , . | | 5 |
| 40 | Control Framework for Dexterous Manipulation Using Dynamic Visual Servoing and Tactile Sensorsâ€™ Feedback. Sensors, 2014, 14, 1787-1804. | 3.8 | 45 |
| 41 | A Survey on FPGA-Based Sensor Systems: Towards Intelligent and Reconfigurable Low-Power Sensors for Computer Vision, Control and Signal Processing. Sensors, 2014, 14, 6247-6278. | 3.8 | 71 |
| 42 | An improvement of a SLAM RGB-D method with movement prediction derived from a study of visual features. Advanced Robotics, 2014, 28, 1231-1242. | 1.8 | 1 |
| 43 | Dynamic Visual Servoing With Chaos Control for Redundant Robots. IEEE/ASME Transactions on Mechatronics, 2014, 19, 423-431. | 5.8 | 15 |
| 44 | A Performance Evaluation of Surface Normals-based Descriptors for Recognition of Objects Using CAD-Models. , 2014, , . | | 6 |
| 45 | 3D Visual Sensing of the Human Hand for the Remote Operation of a Robotic Hand. International Journal of Advanced Robotic Systems, 2014, 11, 26. | 2.1 | 7 |
| 46 | Java software platform for the development of advanced robotic virtual laboratories. Computer Applications in Engineering Education, 2013, 21, E14. | 3.4 | 19 |
| 47 | Direct visual servoing of a redundant robot with chaos compensation. , 2013, , . | | 0 |
| 48 | Providing collaborative support to virtual and remote laboratories. IEEE Transactions on Learning Technologies, 2013, 6, 312-323. | 3.2 | 71 |
| 49 | Dynamic visual servo control of a 4-axis joint tool to track image trajectories during machining complex shapes. Robotics and Computer-Integrated Manufacturing, 2013, 29, 261-270. | 9.9 | 6 |
| 50 | Finger Readjustment Algorithm for Object Manipulation Based on Tactile Information. International Journal of Advanced Robotic Systems, 2013, 10, 9. | 2.1 | 8 |
| 51 | Practical experiences on a real pumping system emulated by a hardware model and used as a remote laboratory. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 339-344. | 0.4 | 0 |
| 52 | Event-based Visual Servoing. , 2013, , . | | 1 |
| 53 | Guidance of Robot Arms using Depth Data from RGB-D Camera. , 2013, , . | | 3 |
| 54 | Synchronous collaboration between auto-generated WebGL applications and 3D virtual laboratories created with Easy Java Simulations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 160-165. | 0.4 | 3 |

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| 55 | Cooperative Tasks between Humans and Robots in Industrial Environments. International Journal of Advanced Robotic Systems, 2012, 9, 94. | 2.1 | 31 |
| 56 | A new 3D visualization Java framework based on physics principles. Computer Physics Communications, 2012, 183, 231-244. | 7.5 | 2 |
| 57 | Synchronous collaboration of virtual and remote laboratories. Computer Applications in Engineering Education, 2012, 20, 124-136. | 3.4 | 39 |
| 58 | Disassembly Planning using Visual Servoing. , 2012, , . | | 0 |
| 59 | Visual control of a multi-robot coupled system: Application to collision avoidance in human-robot interaction. , 2011, , . | | 1 |
| 60 | Hands-on experiences of undergraduate students in Automatics and Robotics using a virtual and remote laboratory. Computers and Education, 2011, 57, 2451-2461. | 8.3 | 161 |
| 61 | Direct Visual Servoing to Track Trajectories in Human-Robot Cooperation. International Journal of Advanced Robotic Systems, 2011, 8, 44. | 2.1 | 7 |
| 62 | A Network of Automatic Control Web-Based Laboratories. IEEE Transactions on Learning Technologies, 2011, 4, 197-208. | 3.2 | 90 |
| 63 | Safe human-robot interaction based on dynamic sphere-swept line bounding volumes. Robotics and Computer-Integrated Manufacturing, 2011, 27, 177-185. | 9.9 | 64 |
| 64 | EJS+EjsRL: An interactive tool for industrial robots simulation, Computer Vision and remote operation. Robotics and Autonomous Systems, 2011, 59, 389-401. | 5.1 | 23 |
| 65 | A Multi-Sensorial Hybrid Control for Robotic Manipulation in Human-Robot Workspaces. Sensors, 2011, 11, 9839-9862. | 3.8 | 9 |
| 66 | VISUAL SERVOING OF A MULTI-ROBOTIC SYSTEM FOR MANIPULATION TASKS. , 2011, , . | | 0 |
| 67 | REAL TIME UNILATERAL TELEOPERATION SYSTEM FOR ARM MOVEMENT PERFORMANCE. , 2011, , . | | 0 |
| 68 | Practical experiences using RobUJALab.ejs: a virtual and remote laboratory for Robotics e-learning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 42, 1-6. | 0.4 | 3 |
| 69 | New features of Easy Java Simulations for 3D Modeling. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 42, 250-255. | 0.4 | 1 |
| 70 | Disassembly planning strategies for automatic material removal. International Journal of Advanced Manufacturing Technology, 2010, 46, 339-350. | 3.0 | 5 |
| 71 | Sensor data integration for indoor human tracking. Robotics and Autonomous Systems, 2010, 58, 931-939. | 5.1 | 17 |
| 72 | Visual Control of Robots Using Range Images. Sensors, 2010, 10, 7303-7322. | 3.8 | 8 |

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| 73 | Analysis and Adaptation of Integration Time in PMD Camera for Visual Servoing. , 2010, , . | | 8 |
| 74 | Direct visual servo control of a robot to track trajectories in supervision tasks. , 2010, , . | | 4 |
| 75 | Modelling and simulation of a multi-fingered robotic hand for grasping tasks. , 2010, , . | | 9 |
| 76 | EJS+EJSRL: A FREE JAVA TOOL FOR ADVANCED ROBOTICS SIMULATION AND COMPUTER VISION PROCESSING. , 2010, , . | | 0 |
| 77 | Survey of Visual and Force/Tactile Control of Robots for Physical Interaction in Spain. Sensors, 2009, 9, 9689-9733. | 3.8 | 18 |
| 78 | A cooperative robotic system based on multiple sensors to construct metallic structures. International Journal of Advanced Manufacturing Technology, 2009, 45, 616-630. | 3.0 | 6 |
| 79 | Automatic cooperative disassembly robotic system: Task planner to distribute tasks among robots. Control Engineering Practice, 2009, 17, 112-121. | 5.5 | 45 |
| 80 | Automatic robotic tasks in unstructured environments using an image path tracker. Control Engineering Practice, 2009, 17, 597-608. | 5.5 | 15 |
| 81 | Real-time collaboration of virtual laboratories through the Internet. Computers and Education, 2009, 52, 126-140. | 8.3 | 96 |
| 82 | Visual servoing path tracking for safe human-robot interaction. , 2009, , . | | 4 |
| 83 | Improving detection of surface discontinuities in visualâ€“force control systems. Image and Vision Computing, 2008, 26, 1435-1447. | 4.5 | 6 |
| 84 | Virtual and remote laboratory for robotics e-learning. Computer Aided Chemical Engineering, 2008, 25, 1193-1198. | 0.5 | 20 |
| 85 | Hybrid tracking of human operators using IMU/UWB data fusion by a Kalman filter. , 2008, , . | | 82 |
| 86 | An advanced interactive interface for robotics elearning. International Journal of Online Engineering, 2008, 4, . | 0.5 | 1 |
| 87 | A new time-independent image path tracker to guide robots using visual servoing. , 2007, , . | | 4 |
| 88 | Flexible multi-sensorial system for automatic disassembly using cooperative robots. International Journal of Computer Integrated Manufacturing, 2007, 20, 757-772. | 4.6 | 58 |
| 89 | Adaptive Visual Servoing by Simultaneous Camera Calibration. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , . | 0.0 | 14 |
| 90 | A Robust Approach to Control Robot Manipulators by Fusing Visual and Force Information. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 48, 437-456. | 3.4 | 14 |

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| 91 | ESTIMATION OF CAMERA 3D-POSITION TO MINIMIZE OCCLUSIONS. , 2007, , . | | 1 |
| 92 | TASK PLANNER FOR HUMAN-ROBOT INTERACTION INSIDE A COOPERATIVE DISASSEMBLY ROBOTIC SYSTEM. , 2007, , . | | 0 |
| 93 | An Uncalibrated Approach to Track Trajectories using Visual Force Control. , 2007, , 103-108. | | 0 |
| 94 | Automatic detection and elimination of specular reflectance in color images by means of MS diagram and vector connected filters. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2006, 36, 681-687. | 2.9 | 15 |
| 95 | Multi-Sensorial System for the Generation of Disassembly Trajectories. , 2006, , . | | 1 |
| 96 | Intelligent disassembly in the demanufacturing process. International Journal of Advanced Manufacturing Technology, 2006, 30, 479-480. | 3.0 | 9 |
| 97 | Detection of partial occlusions of assembled components to simplify the disassembly tasks. International Journal of Advanced Manufacturing Technology, 2006, 30, 530-539. | 3.0 | 11 |
| 98 | Visual - Force Control and Structured Light Fusion to Improve Recognition of Discontinuities in Surfaces. , 2006, , . | | 2 |
| 99 | IMPROVING TRACKING TRAJECTORIES WITH MOTION ESTIMATION. , 2006, , . | | 0 |
| 100 | A DETECTION METHOD OF INTERSECTIONS FOR DETERMINING OVERLAPPING USING ACTIVE VISION. , 2006, , . | | 1 |
| 101 | CALCULATION OF OPTIMAL TRAJECTORY IN 3-D STRUCTURED ENVIRONMENT BY USING GEODESY AND MATHEMATICAL MORPHOLOGY. , 2006, , . | | 0 |
| 102 | A Comparative Study of Highlights Detection and Elimination by Color Morphology and Polar Color Models. Lecture Notes in Computer Science, 2005, , 295-302. | 1.3 | 3 |
| 103 | Flexible system for simulating and tele-operating robots through the internet. Journal of Field Robotics, 2005, 22, 157-166. | 0.7 | 11 |
| 104 | Movement-Flow-Based Visual Servoing and Force Control Fusion for Manipulation Tasks in Unstructured Environments. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2005, 35, 4-15. | 2.9 | 27 |
| 105 | A New Inpainting Method for Highlights Elimination by Colour Morphology. Lecture Notes in Computer Science, 2005, , 368-376. | 1.3 | 6 |
| 106 | Mathematical Morphology and Binary Geodesy for Robot Navigation Planning. Lecture Notes in Computer Science, 2005, , 118-126. | 1.3 | 2 |
| 107 | Gaussian noise elimination in colour images by vector-connected filters. , 2004, , . | | 7 |
| 108 | Virtual disassembly of products based on geometric models. Computers in Industry, 2004, 55, 1-14. | 9.9 | 57 |

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| 109 | Automatic PC disassembly for component recovery. International Journal of Advanced Manufacturing Technology, 2004, 23, 39-46. | 3.0 | 84 |
| 110 | Vectorial morphological reconstruction for brightness elimination in colour images. Real Time Imaging, 2004, 10, 379-387. | 1.6 | 28 |
| 111 | Disassembly Planning Based on Precedence Relations among Assemblies. International Journal of Advanced Manufacturing Technology, 2003, 21, 317-327. | 3.0 | 46 |
| 112 | Automatic Detection of Specular Reflectance in Colour Images Using the MS Diagram. Lecture Notes in Computer Science, 2003, , 132-139. | 1.3 | 13 |
| 113 | Static Scheduling with Interruption Costs for Computer Vision Applications. Lecture Notes in Computer Science, 2003, , 509-522. | 1.3 | 0 |
| 114 | <title>Web teleoperation of robots with simulation feedback</title>. , 2002, , . | | 2 |
| 115 | <title>Disassembly movements for geometrical objects through heuristic methods</title>. , 2002, 4569, 71. | | 6 |
| 116 | <title>Product disassembly scheduling using graph models</title>. , 2002, , . | | 7 |
| 117 | Colour Mathematical Morphology For Neural Image Analysis. Real Time Imaging, 2002, 8, 455-465. | 1.6 | 27 |
| 118 | Automatic inspection for phase-shift reflection defects in aluminum web production. Journal of Intelligent Manufacturing, 2002, 13, 151-156. | 7.3 | 8 |
| 119 | SASEPA: Simultaneous Allocation and Scheduling with Exclusion and Precedence Relations Algorithm. Lecture Notes in Computer Science, 2002, , 65-70. | 1.3 | 1 |
| 120 | <title>Comparative study of vectorial morphological operations in different color spaces</title>. , 2001, , . | | 20 |
| 121 | Graph models applied to specification, simulation, allocation, and scheduling of real-time computer vision applications. International Journal of Imaging Systems and Technology, 2000, 11, 287-291. | 4.1 | 0 |
| 122 | <title>Vergence control system for stereo depth recovery</title>. , 1999, , . | | 1 |
| 123 | Simulation and Scheduling of Real-Time Computer Vision Algorithms. Lecture Notes in Computer Science, 1999, , 98-114. | 1.3 | 4 |
| 124 | Automated real-time visual inspection system for high-resolution superimposed printings. Image and Vision Computing, 1998, 16, 947-958. | 4.5 | 16 |
| 125 | Parallel processing and scheduling techniques applied to the quality control of bill sheets. , 0, , . | | 1 |
| 126 | Remote robot execution through WWW simulation. , 0, , . | | 6 |

| # | ARTICLE | IF | CITATIONS |
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| 127 | Time Independent Tracking Using 2-D Movement Flow-Based Visual Servoing. , 0, , . | | 1 |