Jee-Hwan Ryu

List of Publications by Year in descending order

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361413 189892 3,708 161 20 50 citations h-index g-index papers 164 164 164 1849 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Virtual Inertia as an Energy Dissipation Element for Haptic Interfaces. IEEE Robotics and Automation Letters, 2022, 7, 2708-2715. | 5.1 | 1 |
| 2 | Active-Type Continuously Variable Transmission System Based on a Twisted String Actuator. IEEE Robotics and Automation Letters, 2022, 7, 2605-2612. | 5.1 | 4 |
| 3 | OpenStreetMap-Based LiDAR Global Localization in Urban Environment Without a Prior LiDAR Map. IEEE Robotics and Automation Letters, 2022, 7, 4999-5006. | 5.1 | 10 |
| 4 | Chattering-Free Time Domain Passivity Approach. IEEE Transactions on Haptics, 2022, 15, 572-581. | 2.7 | 2 |
| 5 | Method for generating real-time interactive virtual fixture for shared teleoperation in unknown environments. International Journal of Robotics Research, 2022, 41, 925-951. | 8.5 | 7 |
| 6 | Learning Robotic Rotational Manipulation Skill from Bilateral Teleoperation. , 2022, , . | | 0 |
| 7 | Passivity Controller Based on Load-Side Damping Assignment for High Stiffness Controlled Series Elastic Actuators. IEEE Transactions on Industrial Electronics, 2021, 68, 871-881. | 7.9 | 16 |
| 8 | Ensuring Stable and Transparent High Stiffness Haptic Interaction Using Successive Force Augmention with Time Domain Passivity Approach. Springer Proceedings in Advanced Robotics, 2021, , 263-273. | 1.3 | 1 |
| 9 | Origami-inspired New Material Feeding Mechanism for Soft Growing Robots to Keep the Camera Stay at the Tip by Securing its Path. IEEE Robotics and Automation Letters, 2021, 6, 4592-4599. | 5.1 | 10 |
| 10 | Design of Manipulator End Effectors for Pier Column Construction. The Journal of Korea Robotics Society, 2021, 16, 207-215. | 0.4 | 2 |
| 11 | On Energy-Preserving Motion in Twisted String Actuators. IEEE Robotics and Automation Letters, 2021, 6, 7406-7412. | 5.1 | 0 |
| 12 | On Smooth Time-Optimal Trajectory Planning in Twisted String Actuators. , 2021, , . | | 0 |
| 13 | Enhancing the Rate-Hardness of Haptic Interaction: Successive Force Augmentation Approach. IEEE Transactions on Industrial Electronics, 2020, 67, 809-819. | 7.9 | 11 |
| 14 | Co-Actuation: A Method for Achieving High Stiffness and Low Inertia for Haptic Devices. IEEE Transactions on Haptics, 2020, 13, 312-324. | 2.7 | 8 |
| 15 | Vine Robots. IEEE Robotics and Automation Magazine, 2020, 27, 120-132. | 2.0 | 97 |
| 16 | A Framework for Interactive Virtual Fixture Generation for Shared Teleoperation in Unstructured Environments. , 2020, , . | | 6 |
| 17 | Development of a Twisted String Actuator-based Exoskeleton for Hip Joint Assistance in Lifting Tasks. , 2020, , . | | 12 |
| 18 | Nonlinear Model Predictive Growth Control of a Class of Plant-Inspired Soft Growing Robots. IEEE Access, 2020, 8, 214495-214503. | 4.2 | 8 |

| # | Article | IF | Citations |
|----|---|------|-----------|
| 19 | Multilateral Teleoperation Over Communication Time Delay Using the Time-Domain Passivity Approach. IEEE Transactions on Control Systems Technology, 2020, 28, 2705-2712. | 5.2 | 13 |
| 20 | Accurate Dynamic Modeling of Twisted String Actuators Accounting for String Compliance and Friction. IEEE Robotics and Automation Letters, 2020, 5, 3438-3443. | 5.1 | 15 |
| 21 | A Tip Mount for Transporting Sensors and Tools using Soft Growing Robots. , 2020, , . | | 21 |
| 22 | High-Bandwidth Control of Twisted String Actuators. , 2019, , . | | 4 |
| 23 | Single-Motor-Based Bidirectional Twisted String Actuation With Variable Radius Pulleys. IEEE Robotics and Automation Letters, 2019, 4, 3735-3741. | 5.1 | 8 |
| 24 | Enhancing the Force Transparency of Time Domain Passivity Approach: Observer-Based Gradient Controller., 2019,,. | | 14 |
| 25 | Interactive Virtual Fixture Generation for Shared Teleoperation in Unstructured Environments. Lecture Notes in Electrical Engineering, 2019, , 88-91. | 0.4 | 0 |
| 26 | Robotic Artificial Muscles: Current Progress and Future Perspectives. IEEE Transactions on Robotics, 2019, 35, 761-781. | 10.3 | 225 |
| 27 | Human-Agent Shared Teleoperation: A Case Study Utilizing Haptic Feedback. Lecture Notes in Electrical Engineering, 2019, , 247-251. | 0.4 | 1 |
| 28 | Motion encoding with asynchronous trajectories of repetitive teleoperation tasks and its extension to human-agent shared teleoperation. Autonomous Robots, 2019, 43, 2055-2069. | 4.8 | 13 |
| 29 | Reducing the conservatism of the time domain passivity approach through consideration of energy reflection in delayed coupled network systems. Mechatronics, 2019, 58, 58-69. | 3.3 | 31 |
| 30 | Relaxing the Conservatism of Passivity Condition for Impedance Controlled Series Elastic Actuators. , 2019, , . | | 10 |
| 31 | Effect of Vibration on Twisted String Actuation Through Conduit at High Bending Angles. , 2019, , . | | 6 |
| 32 | Preserving the Physical Coupling in Teleoperation despite Time Delay through Observer-Based Gradient Control. IFAC-PapersOnLine, 2019, 52, 25-30. | 0.9 | 7 |
| 33 | Inverse discounted-based LQR algorithm for learning human movement behaviors. Applied Intelligence, 2019, 49, 1489-1501. | 5.3 | 12 |
| 34 | Configuration of Haptic Feedback Based Relief Robot System. Lecture Notes in Electrical Engineering, 2019, , 294-299. | 0.4 | 0 |
| 35 | A Novel Fingertip Tactile Display for Concurrently Displaying Texture and Orientation. Lecture Notes in Electrical Engineering, 2019, , 216-218. | 0.4 | 0 |
| 36 | Effect of Vibration on Twisted String Actuation Inside Conduit at High Curvature Angles. The Journal of Korea Robotics Society, 2019, 14, 221-227. | 0.4 | 0 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Development and Evaluation of an Intuitive Flexible Interface for Teleoperating Soft Growing Robots. , $2018, \ldots$ | | 29 |
| 38 | Design of Robotic Gripper with Constant Transmission Ratio Based on Twisted String Actuator: Concept and Evaluation. , 2018, , . | | 4 |
| 39 | Enhancing the Command-Following Bandwidth for Transparent Bilateral Teleoperation. , 2018, , . | | 3 |
| 40 | Lyapunov Observer/Controller for Stable Haptic Interaction. , 2018, , . | | 3 |
| 41 | Preliminary Study of Twisted String Actuation Through a Conduit Toward Soft and Wearable Actuation. , 2018, , . | | 12 |
| 42 | Ferro-fluid based portable fingertip haptic display and its preliminary experimental evaluation. , 2018, , . | | 6 |
| 43 | SoTCM: a scene-oriented task complexity metric for gaze-supported teleoperation tasks. Intelligent Service Robotics, 2018, 11, 279-288. | 2.6 | 0 |
| 44 | Shared Teleoperation for Nuclear Plant Robotics Using Interactive Virtual Guidance Generation and Shared Autonomy Approaches. , 2018, , . | | 6 |
| 45 | Preliminary Study on Real-Time Interactive Virtual Fixture Generation Method for Shared Teleoperation in Unstructured Environments. Lecture Notes in Computer Science, 2018, , 648-659. | 1.3 | 5 |
| 46 | Ferro-Fluid Based Lightweight and Portable Tactile Display for Persuasive Tactile Cues Including Orientation and Texture. Lecture Notes in Electrical Engineering, 2018, , 87-93. | 0.4 | 0 |
| 47 | Multi Degree-of-Freedom Successive Stiffness Increment Approach for High Stiffness Haptic Interaction. Lecture Notes in Electrical Engineering, 2018, , 287-293. | 0.4 | 0 |
| 48 | Auxilio: A portable cable-driven exosuit for upper extremity assistance. International Journal of Control, Automation and Systems, 2017, 15, 73-84. | 2.7 | 67 |
| 49 | The Input-to-State Stable (ISS) Approach for Stabilizing Haptic Interaction With Virtual Environments. IEEE Transactions on Robotics, 2017, 33, 948-963. | 10.3 | 18 |
| 50 | Portable Exoskeleton Glove With Soft Structure for Hand Assistance in Activities of Daily Living. IEEE/ASME Transactions on Mechatronics, 2017, 22, 865-875. | 5.8 | 120 |
| 51 | Passive returning mechanism for twisted string actuators. , 2017, , . | | 5 |
| 52 | Passivity-based stability in explicit force control of robots., 2017,,. | | 25 |
| 53 | Novel learning from demonstration approach for repetitive teleoperation tasks. , 2017, , . | | 31 |
| 54 | Realizing low-impedance rendering in admittance-type haptic interfaces using the input-to-state stable approach. , 2017, , . | | 3 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | New passivity observers for improved robot force control., 2017,,. | | 6 |
| 56 | Increasing the rate-hardness of haptic interaction: Successive force augmentation approach., 2017,,. | | 6 |
| 57 | A study on life cycle of twisted string actuators: Preliminary results. , 2017, , . | | 14 |
| 58 | Development of shared autonomy and virtual guidance generation system for human interactive teleoperation. , 2017 , , . | | 3 |
| 59 | Circumventing the fundamental tradeoff between stability and performance in haptic rendering $\hat{a}\in$ " successive force augment approach. , 2016, , . | | 4 |
| 60 | Performance comparison of Wave Variable Transformation and Time Domain Passivity Approaches for time-delayed teleoperation: Preliminary results. , 2016, , . | | 21 |
| 61 | Development of the human interactive autonomy for the shared teleoperation of mobile robots. , 2016, , \cdot | | 11 |
| 62 | Stable and transparent teleoperation over communication time-delay: Observer-based input-to-state stable approach. , 2016 , , . | | 8 |
| 63 | KONTUR-2: Force-feedback teleoperation from the international space station. , 2016, , . | | 72 |
| 64 | Twisted string-based passively variable transmission: Concept, model, and evaluation. Mechanism and Machine Theory, 2016, 100, 205-221. | 4.5 | 20 |
| 65 | Independent force and position control for cooperating manipulators handling an unknown object and interacting with an unknown environment. Journal of the Franklin Institute, 2016, 353, 857-875. | 3.4 | 22 |
| 66 | Stable bilateral teleoperation with input-to-state stable approach., 2015,,. | | 4 |
| 67 | Estimation of human arm impedance in accordance with the master device types and gripping posture. , $2015, \ldots$ | | 2 |
| 68 | Dynamic authority distribution for cooperative teleoperation. , 2015, , . | | 6 |
| 69 | Network formulation and stability improvement of a bilateral teleoperation system with admittance-type master interfaces. , 2015 , , . | | 2 |
| 70 | Increasing the impedance range of admittance-type haptic interfaces by using Time Domain Passivity Approach. , 2015 , , . | | 2 |
| 71 | A preliminary study on development of haptic interface for underwater vehicles. , 2015, , . | | 2 |
| 72 | Effect of kinesthetic coupling in cooperative teleoperation. , 2015, , . | | 0 |

| # | Article | IF | CITATIONS |
|----|---|--------------|-----------|
| 73 | Multi Degree-of-Freedom Input-to-State Stable approach for stable haptic interaction. , 2015, , . | | 3 |
| 74 | 6-DOF extension of memory-based passivation approach for stable haptic interaction. Intelligent Service Robotics, 2015, 8, 23-34. | 2.6 | 3 |
| 75 | Palpation simulator with stable haptic feedback. Minimally Invasive Therapy and Allied Technologies, 2015, 24, 211-217. | 1.2 | 6 |
| 76 | Input-to-state stable approach to release the conservatism of passivity-based stable haptic interaction. , $2015, \ldots$ | | 15 |
| 77 | Passively adjustable gear based on twisted string actuator: Concept, model and evaluation. , 2015, , . | | 6 |
| 78 | Rotational twisted string actuator with linearized output: Mathematical model and experimental evaluation. , $2015, , .$ | | 8 |
| 79 | Hybrid force-motion control of coordinated robots interacting with unknown environments. , 2014, , . | | 7 |
| 80 | Memory-based passivation approach for 6-DOF haptic rendering of high stiffness virtual environment. , 2014, , . | | 0 |
| 81 | Transmission of operator intention impedance using phantom haptic device. , 2014, , . | | 1 |
| 82 | Towards variable stiffness control of antagonistic twisted string actuators. , 2014, , . | | 30 |
| 83 | Memory-Based Passivation Approach for Stable Haptic Interaction. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1424-1435. | 5 . 8 | 28 |
| 84 | Twisted String Actuation Systems: A Study of the Mathematical Model and a Comparison of Twisted Strings. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1331-1342. | 5 . 8 | 107 |
| 85 | Compensating position drift in Time Domain Passivity Approach based teleoperation. , 2014, , . | | 17 |
| 86 | Sliding mode hybrid impedance control of robot manipulators interacting with unknown environments using VSMRC method. , 2013, , . | | 3 |
| 87 | Implementation of semi-virtual Multiple-Master/Multiple-Slave system. , 2013, , . | | 0 |
| 88 | Independent force and position control for cooperating manipulators handling an unknown object interacting with an unknown environment. , 2013 , , . | | 0 |
| 89 | Connected Components for a Fast and Robust 2D Lidar Data Segmentation. , 2013, , . | | 5 |
| 90 | Multilateral control for delayed teleoperation. , 2013, , . | | 16 |

| # | Article | IF | Citations |
|-----|--|-----|-----------|
| 91 | A Multiresolution Approach for Real-Time Motion Planning under Differential Constraints. Advances in Intelligent Systems and Computing, 2013, , 745-754. | 0.6 | 0 |
| 92 | Shared teleoperation of a vehicle with a virtual driving interface., 2013,,. | | 8 |
| 93 | Bidirectional elbow exoskeleton based on twisted-string actuators. , 2013, , . | | 27 |
| 94 | Measurement of human arm impedance using the human arm posture. , 2013, , . | | 0 |
| 95 | A preliminary study on a twisted strings-based elbow exoskeleton. , 2013, , . | | 19 |
| 96 | Stable multilateral teleoperation with Time Domain Passivity Approach., 2013,,. | | 16 |
| 97 | Polar Histogram Based Sampling Method for Autonomous Vehicle Motion Planning. Advances in Intelligent Systems and Computing, 2013, , 737-744. | 0.6 | 0 |
| 98 | Passivity of delayed bilateral teleoperation of mobile robots with ambiguous causalities: Time Domain Passivity Approach. , 2012 , , . | | 17 |
| 99 | A study on twisted string actuation systems: Mathematical model and its experimental evaluation. , 2012, , . | | 14 |
| 100 | Stable haptic interaction with admittance type virtual environments based on time-domain passivity approach. , 2012, , . | | 1 |
| 101 | A study on unconstrained tactile-kinesthetic feedback. , 2012, , . | | 0 |
| 102 | Implementation of Time Domain Passivity Approach on Rate-Mode bilateral teleoperation., 2012,,. | | 3 |
| 103 | Supervisory model-mediated teleoperation for multiple-master/multiple-slave system., 2012, , . | | 2 |
| 104 | The Effect of Asynchronous Haptic and Video Feedback on Teleoperation and a Comment for Improving the Performance. Journal of Institute of Control, Robotics and Systems, 2012, 18, 156-160. | 0.2 | 4 |
| 105 | Development of an Exoskeleton System for Elderly and Disabled People. , 2011, , . | | 9 |
| 106 | Memory based passivation method for stable haptic interaction. , 2011, , . | | 3 |
| 107 | Haptic interface for intuitive teleoperation of wheeled and tracked vehicles. , 2011, , . | | 2 |
| 108 | Network representation and passivity of delayed teleoperation systems., 2011,,. | | 30 |

| # | Article | IF | Citations |
|-----|--|-----|-----------|
| 109 | Design of a master device for the teleoperation of wheeled and tracked vehicles. , 2010, , . | | 7 |
| 110 | A passive bilateral control scheme for a teleoperator with time-varying communication delay. Mechatronics, 2010, 20, 812-823. | 3.3 | 182 |
| 111 | Time Domain Passivity Control for Position-Position Teleoperation Architectures. Presence: Teleoperators and Virtual Environments, 2010, 19, 482-497. | 0.6 | 48 |
| 112 | Position drift compensation in time domain passivity based teleoperation., 2010,,. | | 27 |
| 113 | Plugfest 2009: Global interoperability in Telerobotics and telemedicine. , 2010, 2010, 1733-1738. | | 26 |
| 114 | Improving mobile robot bilateral teleoperation by introducing variable force feedback gain. , 2010, , . | | 20 |
| 115 | A preliminary experimental study on haptic teleoperation of mobile robot with variable force feedback gain. , 2010, , . | | 43 |
| 116 | A Study on Teleoperation Systems with Different Haptic and Video time-delay. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2010, 2010.5, 621-625. | 0.0 | 0 |
| 117 | Stability Analysis of Mobile Robot Teleoperation with Variable Force Feedback Gain. Lecture Notes in Computer Science, 2010, , 177-182. | 1.3 | 0 |
| 118 | Performance Analysis of Telerobotic Systems with Different Haptic and Video Time-delay. Journal of Institute of Control, Robotics and Systems, 2010, 16, 286-292. | 0.2 | 1 |
| 119 | A user study of command strategies for mobile robot teleoperation. Intelligent Service Robotics, 2009, 2, 95-104. | 2.6 | 40 |
| 120 | Direct current measurement based steer-by-wire systems for realistic driving feeling., 2009,,. | | 17 |
| 121 | Rendering of environmental force feedback in mobile robot teleoperation based on fuzzy logic. , 2009, | | 4 |
| 122 | FPGA based time domain Passivity Observer and Passivity Controller., 2009,,. | | 7 |
| 123 | Telerobotic System for Cell Manipulation. , 2008, , . | | 8 |
| 124 | An injecting method of physical damping to haptic interfaces based on FPGA. , 2008, , . | | 5 |
| 125 | Switching of control signals in teleoperation systems: Formalization and application. , 2008, , . | | 16 |
| 126 | Teleoperation of multi-robot and multi-property systems. , 2008, , . | | 15 |

| # | Article | IF | Citations |
|-----|---|------|-----------|
| 127 | A feasibility study of time-domain passivity approach for bilateral teleoperation of mobile manipulator. , 2008, , . | | 12 |
| 128 | Development of a Observe-By-Wire System for Forklifts Using Haptic Interfaces. , 2008, , . | | 0 |
| 129 | Stable Teleoperation with Time Domain Passivity Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 15654-15659. | 0.4 | 1 |
| 130 | A Study on the Role of Force Feedback for Teleoperation of Industrial Overhead Crane. Lecture Notes in Computer Science, 2008, , 796-805. | 1.3 | 6 |
| 131 | Stable Bilateral Control of Teleoperators Under Time-varying Communication Delay: Time Domain Passivity Approach. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , . | 0.0 | 44 |
| 132 | Landing Force Control for Humanoid Robot by Time-Domain Passivity Approach. IEEE Transactions on Robotics, 2007, 23, 1294-1301. | 10.3 | 42 |
| 133 | Bilateral Control with Time Domain Passivity Approach Under Time-varying Communication Delay. , 2007, , . | | 7 |
| 134 | Hybrid position-position and position-speed command strategy for the bilateral teleoperation of a mobile robot. , 2007, , . | | 26 |
| 135 | Intelligent Filtering in Telerobotic System. , 2007, , 313-321. | | 0 |
| 136 | Landing Force Controller for a Humanoid Robot: Time-Domain Passivity Approach., 2006,,. | | 6 |
| 137 | A simulation/experimental study of the noisy behavior of the time-domain passivity controller. , 2005, 21, 733-741. | | 19 |
| 138 | Time domain passivity control with reference energy following. IEEE Transactions on Control Systems Technology, 2005, 13, 737-742. | 5.2 | 132 |
| 139 | Stability Guaranteed Control: Time Domain Passivity Approach. IEEE Transactions on Control Systems Technology, 2004, 12, 860-868. | 5.2 | 86 |
| 140 | Sampled- and Continuous-Time Passivity and Stability of Virtual Environments. Journal of the American College of Radiology, 2004, 20, 772-776. | 1.8 | 76 |
| 141 | Control of a Flexible Manipulator With Noncollocated Feedback: Time-Domain Passivity Approach. Journal of the American College of Radiology, 2004, 20, 776-780. | 1.8 | 55 |
| 142 | Stable Teleoperation With Time-Domain Passivity Control. IEEE Transactions on Automation Science and Engineering, 2004, 20, 365-373. | 2.3 | 310 |
| 143 | Control of a Flexible Manipulator with Noncollocated Feedback: Time Domain Passivity Approach. , 2003, , 121-134. | | 8 |
| 144 | Time-domain passivity control of haptic interfaces. IEEE Transactions on Automation Science and Engineering, 2002, 18, 1-10. | 2.3 | 610 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | A novel adaptive bilateral control scheme using similar closed-loop dynamic characteristics of master/slave manipulators. Journal of Field Robotics, 2001, 18, 533-543. | 0.7 | 47 |
| 146 | Title is missing!. Journal of Intelligent and Robotic Systems: Theory and Applications, 2000, 27, 345-361. | 3.4 | 10 |
| 147 | Stable teleoperation with time domain passivity control. , 0, , . | | 3 |
| 148 | A robust controller design method for a flexible manipulator with a time varying payload and parameter uncertainties. , 0 , , . | | 7 |
| 149 | Design of a teleoperation controller for an underwater manipulator. , 0, , . | | 12 |
| 150 | Control of underwater manipulators mounted on an ROV using base force information. , 0, , . | | 20 |
| 151 | Time domain passivity control of haptic interfaces. , 0, , . | | 45 |
| 152 | Stability guaranteed control: Time domain passivity approach. , 0, , . | | 2 |
| 153 | Time domain passivity control with reference energy behavior. , 0, , . | | 18 |
| 154 | Time domain passivity control for 6 degrees of freedom haptic displays. , 0, , . | | 24 |
| 155 | Sampled and continuous time passivity and stability of virtual environments., 0,,. | | 66 |
| 156 | A Simulation/Experimental Study of the Noisy Behavior of the Time Domain Passivity Controller for Haptic Interfaces. , 0 , , . | | 2 |
| 157 | Stable and high performance teleoperation with time domain passivity control: reference energy following scheme., 0,,. | | 1 |
| 158 | Compensation for the landing impact force of a humanoid robot by time domain passivity approach. , 0, , . | | 12 |
| 159 | Control of a Flexible Manipulator with Noncollocated Feedback: Time Domain Passivity Approach. , 0, , | | 0 |
| 160 | Testing Time Domain Passivity Control of Haptic Enabled Systems. , 0, , 550-559. | | 1 |
| 161 | Stable and high performance teleoperation with time domain passivity control: reference energy following scheme., 0,,. | | 0 |