

Doo Yong Lee

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

1,138
citations

516710

16
h-index

454955

30
g-index

110
all docs

110
docs citations

110
times ranked

790
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Control of Haptic Systems Based on Input-to-State Stability. IEEE Access, 2022, 10, 27242-27254. | 4.2 | 2 |
| 2 | Hydraulically Steerable Micro Guidewire Capable of Distal Sharp Steering. IEEE Transactions on Biomedical Engineering, 2021, 68, 728-735. | 4.2 | 12 |
| 3 | Adaptive surface representation based on homogeneous hexahedrons for interactive simulation of soft tissue cutting. Computer Methods and Programs in Biomedicine, 2021, 200, 105873. | 4.7 | 3 |
| 4 | Adaptive Model-Mediated Teleoperation for Tasks Interacting With Uncertain Environment. IEEE Access, 2021, 9, 128188-128201. | 4.2 | 4 |
| 5 | Multirate Haptic Rendering Using Local Stiffness Matrix for Stable and Transparent Simulation Involving Interaction With Deformable Objects. IEEE Transactions on Industrial Electronics, 2020, 67, 820-828. | 7.9 | 7 |
| 6 | Method for real-time simulation of haptic interaction with deformable objects using GPU-based parallel computing and homogeneous hexahedral elements. Computational Mechanics, 2020, 65, 1205-1218. | 4.0 | 7 |
| 7 | Deformable objects modeling with iterative updates of local positions. Computer Methods and Programs in Biomedicine, 2020, 190, 105346. | 4.7 | 2 |
| 8 | Stability and performance of haptic simulation involving interaction with non-passive virtual environment. Robotica, 2019, 37, 560-574. | 1.9 | 4 |
| 9 | Improved estimation of torque between a surgical instrument and environment in multi-DOF motion. Journal of Mechanical Science and Technology, 2018, 32, 2817-2828. | 1.5 | 0 |
| 10 | Method to Generate the Cardiac Motion of Blood Vessels in a Real-time Angiography Simulation. Transactions of the Korean Society of Mechanical Engineers, B, 2018, 42, 487-492. | 0.1 | 0 |
| 11 | A one-dimensional fluid simulation method of branching narrow vessel for real-time angiography simulation. , 2017, 2017, 1828-1831. | | 1 |
| 12 | A New Control Architecture for Stable and Transparent Haptic Feedback of Interactive Simulation. IFAC-PapersOnLine, 2017, 50, 1346-1351. | 0.9 | 2 |
| 13 | Model of transmitted stiffness including the radial artery pressure. , 2017, , . | | 0 |
| 14 | A 3-DOF sensor to estimate the force applied to the tip of a surgical instrument. , 2017, , . | | 8 |
| 15 | A method to estimate the axial force applied to a surgical instrument tip considering the effect of the gravity. , 2017, , . | | 1 |
| 16 | Accuracy Improvement of Torque Estimation Between a Surgical Robot Instrument and Environment in Single-DOF Motion. Lecture Notes in Computer Science, 2016, , 187-195. | 1.3 | 1 |
| 17 | An empirical nonlinear viscoelastic model of reflective force by a layer of soft tissue. , 2016, , . | | 1 |
| 18 | Design of position and force sensors of the haptic interface for training simulation of radial artery puncture. , 2016, , . | | 1 |

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|----|---|-----|-----------|
| 19 | A pneumatic haptic module for simulation of catheters used in gastrointestinal endoscopy. , 2016, , . | | 2 |
| 20 | An empirical model of friction force between a needle and soft tissue. , 2016, , . | | 1 |
| 21 | Markerless registration for image-guided endoscopic retrograde cholangiopancreatography (ERCP). , 2015, 2015, 2932-5. | | 1 |
| 22 | Design of a New Haptic Interface for Endoscopy Simulation. Journal of Medical Devices, Transactions of the ASME, 2015, 9, . | 0.7 | 2 |
| 23 | Friction-model-based estimation of interaction force of a surgical robot. , 2015, , . | | 3 |
| 24 | Empirical model of reflective bending moment for training simulation of needle intervention. , 2015, , . | | 1 |
| 25 | A psychophysical evaluation of haptic controllers: viscosity perception of soft environments. Robotica, 2014, 32, 1-17. | 1.9 | 16 |
| 26 | Design of a slave arm of a surgical robot system to estimate the contact force at the tip of the employed instruments. Advanced Robotics, 2014, 28, 1305-1320. | 1.8 | 8 |
| 27 | Implementation of skin manipulation in a haptic interface of needle intervention simulation. , 2014, , . | | 2 |
| 28 | A verification method of image registration for image-guided therapy (IGT). , 2014, , . | | 0 |
| 29 | Analytical and Psychophysical Comparison of Bilateral Teleoperators for Enhanced Perceptual Performance. IEEE Transactions on Industrial Electronics, 2014, 61, 6202-6212. | 7.9 | 16 |
| 30 | Dynamic cylindrical free-form deformation for interactive simulation of tool-tissue interaction. International Journal of Medical Robotics and Computer Assisted Surgery, 2013, 9, 58-66. | 2.3 | 0 |
| 31 | Caterpillar mechanism for a portable haptic interface of endoscopy simulation. , 2013, , . | | 0 |
| 32 | Markerless tracking for augmented reality for image-guided Endoscopic Retrograde Cholangiopancreatography. , 2013, 2013, 7364-7. | | 3 |
| 33 | Design of a haptic interface for simulation of needle intervention. , 2013, , . | | 5 |
| 34 | A method for generating cut surface in surgery simulation. , 2013, , . | | 5 |
| 35 | Gain-Scheduling Control of Teleoperation Systems Interacting With Soft Tissues. IEEE Transactions on Industrial Electronics, 2013, 60, 946-957. | 7.9 | 31 |
| 36 | A method for collision detection between needle and tissues in the needle insertion simulation. , 2013, , . | | 0 |

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|----|--|-----|-----------|
| 37 | Real-time cutting simulation of meshless deformable object using dynamic bounding volume hierarchy. Computer Animation and Virtual Worlds, 2012, 23, 489-501. | 1.2 | 14 |
| 38 | Design of a Haptic Interface for a Gastrointestinal Endoscopy Simulation. Advanced Robotics, 2012, 26, 2115-2143. | 1.8 | 2 |
| 39 | Residual force based optimization of 8 DOF haptic master device. , 2012, , . | | 0 |
| 40 | Real-time deformation of colon and endoscope for colonoscopy simulation. International Journal of Medical Robotics and Computer Assisted Surgery, 2012, 8, 273-281. | 2.3 | 3 |
| 41 | Exploitation of the Impedance and Characteristics of the Human Arm in the Design of Haptic Interfaces. IEEE Transactions on Industrial Electronics, 2011, 58, 3221-3233. | 7.9 | 32 |
| 42 | Real-Time Resolution of Self-Intersection in Dynamic Cylindrical Free-Form Deformation. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 515-526. | 4.4 | 4 |
| 43 | Identification of dynamic parameters of an industrial robot using a recursively-optimized trajectory. , 2010, , . | | 10 |
| 44 | GPU-based real-time soft tissue deformation with cutting and haptic feedback. Progress in Biophysics and Molecular Biology, 2010, 103, 159-168. | 2.9 | 131 |
| 45 | Estimation of environmental force for the haptic interface of robotic surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2010, 6, 221-230. | 2.3 | 29 |
| 46 | Real-time simulation of dynamic fluoroscopy of ERCP. Proceedings of SPIE, 2010, , . | 0.8 | 0 |
| 47 | Multi-contact model for FEM-based surgical simulation. Proceedings of SPIE, 2010, , . | 0.8 | 0 |
| 48 | Psychophysical evaluation of control scheme designed for optimal kinesthetic perception in scaled teleoperation. , 2010, , . | | 1 |
| 49 | High Fidelity Haptic Rendering for Deformable Objects Undergoing Topology Changes. Lecture Notes in Computer Science, 2010, , 262-268. | 1.3 | 2 |
| 50 | Position-Position Control with Gain-Scheduling for Telesurgical Systems. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2010, 2010.5, 283-288. | 0.0 | 0 |
| 51 | Gain-scheduling control of a teleoperation system. , 2009, , . | | 6 |
| 52 | High-fidelity simulation of integrated single-wafer processing tools for evaluation of scheduling algorithms. Robotics and Computer-Integrated Manufacturing, 2009, 25, 107-121. | 9.9 | 3 |
| 53 | Adjusting Output-Limiter for Stable Haptic Rendering in Virtual Environments. IEEE Transactions on Control Systems Technology, 2009, 17, 768-779. | 5.2 | 24 |
| 54 | Time-delayed phase-control for suppression of the flow-induced noise from an open cavity. Applied Acoustics, 2008, 69, 215-224. | 3.3 | 10 |

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|----|--|-----|-----------|
| 55 | Haptic Interface of the KAIST-Ewha Colonoscopy Simulator II. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 746-753. | 3.2 | 16 |
| 56 | Enhancement of kinesthetic perception for microsurgical teleoperation using impedance-shaping. , 2008, 2008, 1939-42. | | 3 |
| 57 | Two-channel control for scaled teleoperation. , 2008, , . | | 0 |
| 58 | Haptic control with environment force estimation for telesurgery. , 2008, 2008, 3241-4. | | 8 |
| 59 | Passivity analysis of a 1-DOF haptic system with consideration of human arm impedance. , 2008, , . | | 8 |
| 60 | Improved Haptic Interface for Colonoscopy Simulation. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1253-6. | 0.5 | 0 |
| 61 | Quantitative Analysis of Colonoscopy Skills Using the KAIST-Ewha Colonoscopy Simulator II. , 2007, , . | | 1 |
| 62 | Motion planning based on multiple kinematic performance measures for bimanual robotic tasks. , 2007, , . | | 0 |
| 63 | Adaptive Modeling of Robotic Assembly Using Augmented Petri Nets. Proceedings of the American Control Conference, 2007, , . | 0.0 | 0 |
| 64 | Experimental study on the time-delayed-phase-control for reduction of open cavity noise. , 2007, , . | | 0 |
| 65 | MIMO Output Estimation With Reduced Multirate Sampling for Real-Time Haptic Rendering. , 2007, 23, 481-493. | | 11 |
| 66 | Haptic Rendering of Drilling into Femur Bone with Graded Stiffness. , 2007, , . | | 4 |
| 67 | Motion planning of bimanual robot for assembly. , 2007, , . | | 3 |
| 68 | Real-time haptic rendering using multi-rate output-estimation with ARMAX model. , 2007, , . | | 1 |
| 69 | Simulation-based planning of the multiple pinning operation. , 2007, , . | | 1 |
| 70 | Optimal post-process of industrial solid freeform fabrication system. , 2007, , . | | 0 |
| 71 | Surface-Data-Based Haptic Rendering for Simulation of Surgery of Closed Reduction and Internal Fixation. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 210-3. | 0.5 | 3 |
| 72 | Adjusting output-limiter for stable haptic interaction with deformable objects. , 2007, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Colonoscopy Simulator with Enhanced Haptic Realism and Visual Feedback. , 2007, , 3820-3823. | | 1 |
| 74 | Task-Compatibility-Based Motion Planning for Bimanual Assembly. , 2006, , . | | 5 |
| 75 | Clinical Evaluation of the KAIST-Ewha Colonoscopy Simulator II. , 2006, , . | | 0 |
| 76 | Clinical Evaluation of a Colonoscopy Simulator with Improved Haptics. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , . | 0.0 | 0 |
| 77 | Multirate-Output-Estimator-Based Control for Virtual Environment with Computational Time Delay. , 2006, , . | | 0 |
| 78 | New colonoscopy simulator with improved haptic fidelity. Advanced Robotics, 2006, 20, 349-365. | 1.8 | 28 |
| 79 | An augmented Petri net for modelling and control of assembly tasks with uncertainties. International Journal of Computer Integrated Manufacturing, 2005, 18, 170-178. | 4.6 | 17 |
| 80 | Online Scheduling of Integrated Single-Wafer Processing Tools With Temporal Constraints. IEEE Transactions on Semiconductor Manufacturing, 2005, 18, 390-398. | 1.7 | 39 |
| 81 | Simulator of Integrated Single-Wafer Processing Tools with Contingency Handling. Transactions of the Korean Society of Mechanical Engineers, A, 2005, 29, 96-106. | 0.2 | 0 |
| 82 | Deadlock-Free Scheduling of Photolithography Equipment in Semiconductor Fabrication. IEEE Transactions on Semiconductor Manufacturing, 2004, 17, 42-54. | 1.7 | 39 |
| 83 | Trajectory planning for the tracking control of systems with unstable zeros. Mechatronics, 2003, 13, 127-139. | 3.3 | 16 |
| 84 | Concurrent Design of Continuous Zero Phase Error Tracking Controller and Sinusoidal Trajectory for Improved Tracking Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2001, 123, 127-129. | 1.6 | 22 |
| 85 | A control method to reduce the standard deviation of flow time in wafer fabrication. IEEE Transactions on Semiconductor Manufacturing, 2000, 13, 389-392. | 1.7 | 20 |
| 86 | Scheduling cluster tools in wafer fabrication using candidate list and simulated annealing. Journal of Intelligent Manufacturing, 1999, 10, 531-540. | 7.3 | 19 |
| 87 | Comparative Study of Search Methods for the Scheduling of Flexible Manufacturing Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 1427-1432. | 0.4 | 1 |
| 88 | Integrated scheduling of flexible manufacturing systems employing automated guided vehicles. IEEE Transactions on Industrial Electronics, 1994, 41, 602-610. | 7.9 | 45 |
| 89 | Scheduling flexible manufacturing systems using Petri nets and heuristic search. IEEE Transactions on Automation Science and Engineering, 1994, 10, 123-132. | 2.3 | 322 |
| 90 | Real-time scheduling of wafer fabrication with multiple product types. , 0, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|----|-----------|
| 91 | Scheduling flexible manufacturing systems with the consideration of setup times. , 0, , . | | 7 |
| 92 | Multiple objective scheduling for flexible manufacturing systems using Petri nets and heuristic search. , 0, , . | | 8 |
| 93 | Scheduling method with the consideration of machine setup in flexible manufacturing systems. , 0, , . | | 2 |
| 94 | An approach to control design for cooperative multiple mobile robots. , 0, , . | | 3 |
| 95 | Scheduling cluster tools in wafer fabrication using candidate list and simulated annealing. , 0, , . | | 0 |
| 96 | Design and verification of supervisory controller of high-speed train. , 0, , . | | 2 |
| 97 | KAIST interactive bicycle simulator. , 0, , . | | 17 |
| 98 | Semiconductor track system simulator. , 0, , . | | 2 |
| 99 | Identification of potential deadlock set in semiconductor track systems. , 0, , . | | 4 |
| 100 | Efficient real-time scheduling of integrated equipment in semiconductor fabrication. , 0, , . | | 0 |
| 101 | KAIST interactive bicycle racing simulator: the 2nd version with advanced features. , 0, , . | | 6 |
| 102 | Compliant motion planning for two manipulators via human demonstration. , 0, , . | | 1 |
| 103 | An augmented Petri net for modeling and control of assembly tasks with uncertainties. , 0, , . | | 3 |
| 104 | Stability of haptic interface using nonlinear virtual coupling. , 0, , . | | 8 |
| 105 | On-line scheduling of robotic cells with post-processing residency constraints. , 0, , . | | 0 |
| 106 | Multirate control of haptic interface for stability and high fidelity. , 0, , . | | 5 |
| 107 | Model of Frictional Contact with Soft Tissue for Colonoscopy Simulator. , 0, , . | | 3 |
| 108 | Assembly approach for bimanual robots. , 0, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|----|-----------|
| 109 | Multirate output estimation for real-time haptic rendering. , 0, , . | | 2 |
| 110 | Deadlock-free scheduling method for track systems in semiconductor fabrication. , 0, , . | | 3 |