

# Sang-Heon Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

1,458  
citations

361045

20  
h-index

360668

35  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1547  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on fruit harvesting method for potential use of automatic fruit harvesting systems. <i>Procedia Engineering</i> , 2011, 23, 351-366.	1.2	135
2	Polymer composite hydrogels containing carbon nanomaterialsâ€™ Morphology and mechanical and functional performance. <i>Progress in Polymer Science</i> , 2018, 77, 1-18.	11.8	101
3	Monitoring of Cardiorespiratory Signal: Principles of Remote Measurements and Review of Methods. <i>IEEE Access</i> , 2017, 5, 15776-15790.	2.6	97
4	Real Time Apnoea Monitoring of Children Using the Microsoft Kinect Sensor: A Pilot Study. <i>Sensors</i> , 2017, 17, 286.	2.1	63
5	Recycling of solar PV panels- product stewardship and regulatory approaches. <i>Energy Policy</i> , 2021, 149, 112062.	4.2	59
6	Optimal design of neural networks for control in robotic arc welding. <i>Robotics and Computer-Integrated Manufacturing</i> , 2004, 20, 57-63.	6.1	58
7	Long-term lubrication of momentum wheels used in spacecraftsâ€™An overview. <i>Tribology International</i> , 2010, 43, 259-267.	3.0	53
8	Lean thinking for a maintenance process. <i>Production and Manufacturing Research</i> , 2015, 3, 236-272.	0.9	49
9	A review of recent sensing technologies to detect invertebrates on crops. <i>Precision Agriculture</i> , 2017, 18, 635-666.	3.1	49
10	Bearing Retainer Designs and Retainer Instability Failures in Spacecraft Moving Mechanical Systems. <i>Tribology Transactions</i> , 2012, 55, 503-511.	1.1	42
11	Analyzing the mixing performance of a rotary spader using digital image processing and discrete element modelling (DEM). <i>Computers and Electronics in Agriculture</i> , 2018, 151, 1-10.	3.7	40
12	Structural Decentralised Control of Concurrent Discrete-event Systems. <i>European Journal of Control</i> , 2002, 8, 477-491.	1.6	35
13	E-Waste Reverse Supply Chain: A Review and Future Perspectives. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5195.	1.3	33
14	An integrated single-vendor multi-buyer production-inventory policy for food products incorporating quality degradation. <i>International Journal of Production Economics</i> , 2016, 182, 409-417.	5.1	32
15	Case study: Optimizing order fulfillment in a global retail supply chain. <i>International Journal of Production Economics</i> , 2010, 127, 278-291.	5.1	30
16	A comprehensive reverse supply chain model using an interactive fuzzy approach â€™ A case study on the Vietnamese electronics industry. <i>Applied Mathematical Modelling</i> , 2019, 76, 87-108.	2.2	26
17	Quality index evaluation of videos based on fuzzy interface system. <i>IET Image Processing</i> , 2017, 11, 292-300.	1.4	25
18	A Multispectral 3-D Vision System for Invertebrate Detection on Crops. <i>IEEE Sensors Journal</i> , 2017, 17, 7502-7515.	2.4	24

#	ARTICLE	IF	CITATIONS
19	A faster path planner using accelerated particle swarm optimization. <i>Artificial Life and Robotics</i> , 2012, 17, 233-240.	0.7	23
20	DEVELOPMENT OF A MACHINE VISION SYSTEM FOR WEED DETECTION DURING BOTH OF OFF-SEASON AND IN-SEASON IN BROADACRE NO-TILLAGE CROPPING LANDS. <i>American Journal of Agricultural and Biological Science</i> , 2014, 9, 174-193.	0.9	23
21	Rancidity and moisture estimation in shelled almond kernels using NIR hyperspectral imaging and chemometric analysis. <i>Journal of Food Engineering</i> , 2022, 318, 110889.	2.7	22
22	Application of SWIR hyperspectral imaging coupled with chemometrics for rapid and non-destructive prediction of Aflatoxin B1 in single kernel almonds. <i>LWT - Food Science and Technology</i> , 2022, 155, 112954.	2.5	22
23	Research advancements in optical imaging and spectroscopic techniques for nondestructive detection of mold infection and mycotoxins in cereal grains and nuts. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2021, 20, 4612-4651.	5.9	21
24	A new approach for the automatic measurement of the angle of repose of granular materials with maximal least square using digital image processing. <i>Computers and Electronics in Agriculture</i> , 2020, 172, 105356.	3.7	19
25	Cement nanocomposites containing montmorillonite nanosheets modified with surfactants of various chain lengths. <i>Cement and Concrete Composites</i> , 2021, 116, 103894.	4.6	18
26	A systems approach to order fulfilment using design for six sigma methodology. <i>International Journal of Business and Systems Research</i> , 2007, 1, 302.	0.2	17
27	Optimizing order fulfillment using design for six sigma and fuzzy logic. <i>International Journal of Management Science and Engineering Management</i> , 2008, 3, 83-99.	2.6	17
28	Smart thin-film piezoelectric composite sensors based on high lead zirconate titanate content. <i>Structural Health Monitoring</i> , 2015, 14, 214-227.	4.3	16
29	Transformation of a high-dimensional color space for material classification. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017, 34, 523.	0.8	16
30	Registration of multispectral 3D points for plant inspection. <i>Precision Agriculture</i> , 2018, 19, 513-536.	3.1	16
31	A new conceptual life cycle model for Result-Oriented Product-Service System development. , 2010, , .		15
32	Development of a Lubrication System for Momentum Wheels Used in Spacecrafts. <i>Tribology Letters</i> , 2008, 32, 99-107.	1.2	14
33	Durable cement/cellulose nanofiber composites prepared by a facile approach. <i>Cement and Concrete Composites</i> , 2022, 125, 104321.	4.6	14
34	Comparison of multiple regression and back propagation neural network approaches in modelling top bead height of multipass gas metal arc welds. <i>Science and Technology of Welding and Joining</i> , 2003, 8, 347-352.	1.5	13
35	DEVELOPMENT OF A PROXIMAL MACHINE VISION SYSTEM FOR OFF-SEASON WEED MAPPING IN BROADACRE NO-TILLAGE FALLOWS. <i>Journal of Computer Science</i> , 2013, 9, 1803-1821.	0.5	13
36	Superior piezoelectric composite films: taking advantage of carbon nanomaterials. <i>Nanotechnology</i> , 2014, 25, 045501.	1.3	13

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37	An efficient motion magnification system for real-time applications. <i>Machine Vision and Applications</i> , 2018, 29, 585-600.	1.7	13
38	A feasibility study on the application of microwaves for online biofilm monitoring in the pipelines. <i>International Journal of Pressure Vessels and Piping</i> , 2013, 111-112, 99-105.	1.2	11
39	Survey on applications of biased-random key genetic algorithms for solving optimization problems. , 2015, , .		10
40	Development of a global batch clustering with gradient descent and initial parameters in colour image classification. <i>IET Image Processing</i> , 2019, 13, 161-174.	1.4	10
41	Study on citrus fruit image data separability by segmentation methods. <i>Procedia Engineering</i> , 2011, 23, 408-416.	1.2	9
42	Automated detection of circular marker particles in synchrotron phase contrast X-ray images of live mouse nasal airways for mucociliary transit assessment. <i>Expert Systems With Applications</i> , 2017, 73, 57-68.	4.4	9
43	Cardiopulmonary signal acquisition from different regions using video imaging analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2019, 7, 117-131.	1.3	9
44	The quest for better clinical word vectors: Ontology based and lexical vector augmentation versus clinical contextual embeddings. <i>Computers in Biology and Medicine</i> , 2021, 134, 104433.	3.9	9
45	Enhanced image-based coordinate measurement using a super-resolution method. <i>Robotics and Computer-Integrated Manufacturing</i> , 2005, 21, 579-588.	6.1	8
46	Development of a Positive Lubrication System for Space Application. <i>Tribology Online</i> , 2010, 5, 40-45.	0.2	7
47	An evaluation of the contribution of ultraviolet in fused multispectral images for invertebrate detection on green leaves. <i>Precision Agriculture</i> , 2017, 18, 667-683.	3.1	7
48	Nonlinear Fusion of Multispectral Citrus Fruit Image Data with Information Contents. <i>Sensors</i> , 2017, 17, 142.	2.1	7
49	A new method to analyse the soil movement during tillage operations using a novel digital image processing algorithm. <i>Computers and Electronics in Agriculture</i> , 2019, 156, 43-50.	3.7	7
50	Multiple particle tracking in time-lapse synchrotron X-ray images using discriminative appearance and neighbouring topology learning. <i>Pattern Recognition</i> , 2019, 93, 485-497.	5.1	6
51	NEAR: Named entity and attribute recognition of clinical concepts. <i>Journal of Biomedical Informatics</i> , 2022, 130, 104092.	2.5	6
52	A proposal on development of intelligent PSO based path planning and image based obstacle avoidance for real multi agents robotics system application. , 2010, , .		5
53	Autonomous mobile robot system concept based On PSO path planner and vSLAM. , 2011, , .		5
54	Development of a Centrifugal Oil Lubricator for Long-Term Lubrication of Spacecraft Attitude Control Systemsâ€”Design and Theory. <i>Tribology Transactions</i> , 2011, 54, 770-778.	1.1	5

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55	Development of a Centrifugal Oil Lubricator for Long-Term Lubrication of Spacecraft Attitude Control Systems Experimental Evaluation. Tribology Transactions, 2011, 54, 832-839.	1.1	5
56	Multispectral camera system design for replacement of hyperspectral cameras for detection of aflatoxin $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$ $\langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle B \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle$ Computers and Electronics in Agriculture, 2022, 198, 107078.	3.7	5
57	Use of a cold mirror system for citrus fruit identification. , 2011, , .		4
58	An inventory model of production-inventory policy for food products considering quality loss in raw materials. , 2015, , .		4
59	Implementing design for six sigma to supply chain design. , 2007, , .		3
60	A systems approach to order fulfilment. International Journal of Operational Research, 2010, 9, 443.	0.1	3
61	Lubrication of Attitude Control Systems. , 0, , .		3
62	Fusion on Citrus Image Data from Cold Mirror Acquisition System. International Journal of Computer Vision and Image Processing, 2012, 2, 11-24.	0.3	3
63	Models and Optimisation Techniques on Long Distribution Network: A Review. Procedia Manufacturing, 2015, 2, 519-526.	1.9	3
64	Model of an Integrated Procurement-Production System for Food Products Incorporating Quality Loss during Storage Time. International Journal of Materials Mechanics and Manufacturing, 2013, , 17-21.	0.2	3
65	Notice of Retraction: Life-cycle oriented design model for product-service system development. , 2011, , .		2
66	A New Design Approach for PSS Conceptual Development. Advanced Materials Research, 2012, 605-607, 104-109.	0.3	2
67	Comment on Simultaneous determination of multiproduct batch and full truckload shipment schedules International Journal of Production Economics, 2013, 144, 405-408.	5.1	2
68	Optimizing a Reverse Supply Chain Network for Electronic Waste under Risk and Uncertain Factors. Applied Sciences (Switzerland), 2021, 11, 1946.	1.3	2
69	Decentralised control of concurrent discrete-event systems with non-prefix closed local specifications. , 0, , .		1
70	A fuzzy logic controller for an electrically driven steering system for a motorcar. Journal of Mechanical Science and Technology, 2002, 16, 1039-1052.	0.4	1
71	Integrated Production-Inventory Model in a Multi-Echelon Closed-Loop Supply Chain with Product Returns. Advanced Materials Research, 2012, 472-475, 3305-3311.	0.3	1
72	Effect of surface modification of lead zirconate titanate particles on the properties of piezoelectric composite sensors. Proceedings of SPIE, 2013, , .	0.8	1

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73	Multiple mucociliary transit marker tracking in synchrotron X-ray images using the global nearest neighbor method. , 2017, 2017, 1824-1827.		1
74	Optimizing a Reverse Supply Chain Model Using Fuzzy Mathematical Programming. , 2019, , .		1
75	A Review on Long Distribution Channel's Problems. International Journal of Materials Mechanics and Manufacturing, 2013, , 60-64.	0.2	1
76	Mucociliary Transit Assessment Using Automatic Tracking in Phase Contrast X-Ray Images of Live Mouse Nasal Airways. Journal of Medical and Biological Engineering, 2022, 42, 545-554.	1.0	1
77	Task rescheduling using a coordinator in a structural decentralised control of discrete-event systems. , 2002, , .		0
78	Improving Measurement Accuracy Using Image Super-Resolution. Key Engineering Materials, 2005, 295-296, 699-704.	0.4	0
79	Study on citrus fruit image using fisher linear discriminant analysis. , 2011, , .		0
80	Circular particle detection using sectored ring mask for synchrotron PCXI images. , 2015, 2015, 7889-92.		0
81	Use of Bi-Camera and Fusion of Pairwise Real Time Citrus Fruit Image for Classification Application. Advances in Computational Intelligence and Robotics Book Series, 2014, , 54-81.	0.4	0
82	Development of concurrent structural decentralised discrete event system using bisimulation concept. Numerical Algebra, Control and Optimization, 2016, 6, 305-317.	1.0	0