

changyong Lee

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,713
citations

279798

23
h-index

289244

40
g-index

55
all docs

55
docs citations

55
times ranked

1049
citing authors

#	ARTICLE	IF	CITATIONS
1	Business planning based on technological capabilities: Patent analysis for technology-driven roadmapping. <i>Technological Forecasting and Social Change</i> , 2009, 76, 769-786.	11.6	185
2	Early identification of emerging technologies: A machine learning approach using multiple patent indicators. <i>Technological Forecasting and Social Change</i> , 2018, 127, 291-303.	11.6	131
3	Novelty-focused patent mapping for technology opportunity analysis. <i>Technological Forecasting and Social Change</i> , 2015, 90, 355-365.	11.6	128
4	A stochastic patent citation analysis approach to assessing future technological impacts. <i>Technological Forecasting and Social Change</i> , 2012, 79, 16-29.	11.6	104
5	Monitoring trends of technological changes based on the dynamic patent lattice: A modified formal concept analysis approach. <i>Technological Forecasting and Social Change</i> , 2011, 78, 690-702.	11.6	84
6	Stochastic technology life cycle analysis using multiple patent indicators. <i>Technological Forecasting and Social Change</i> , 2016, 106, 53-64.	11.6	59
7	Anticipating technological convergence: Link prediction using Wikipedia hyperlinks. <i>Technovation</i> , 2019, 79, 25-34.	7.8	58
8	Evaluation of new service concepts using rough set theory and group analytic hierarchy process. <i>Expert Systems With Applications</i> , 2012, 39, 3404-3412.	7.6	55
9	How to assess patent infringement risks: a semantic patent claim analysis using dependency relationships. <i>Technology Analysis and Strategic Management</i> , 2013, 25, 23-38.	3.5	55
10	Identifying core technologies based on technological cross-impacts: An association rule mining (ARM) and analytic network process (ANP) approach. <i>Expert Systems With Applications</i> , 2011, 38, 12559-12564.	7.6	47
11	Design of convergent product concepts based on functionality: An association rule mining and decision tree approach. <i>Expert Systems With Applications</i> , 2012, 39, 9534-9542.	7.6	43
12	A convolutional neural network model for abnormality diagnosis in a nuclear power plant. <i>Applied Soft Computing Journal</i> , 2021, 99, 106874.	7.2	43
13	An energy security management model using quality function deployment and system dynamics. <i>Energy Policy</i> , 2013, 54, 72-86.	8.8	38
14	An instrument for scenario-based technology roadmapping: How to assess the impacts of future changes on organisational plans. <i>Technological Forecasting and Social Change</i> , 2015, 90, 285-301.	11.6	34
15	Technology opportunity analysis based on recombinant search: patent landscape analysis for idea generation. <i>Scientometrics</i> , 2019, 121, 603-632.	3.0	33
16	Keeping abreast of technology-driven business model evolution: a dynamic patent analysis approach. <i>Technology Analysis and Strategic Management</i> , 2013, 25, 487-505.	3.5	32
17	Generation of new service concepts: A morphology analysis and genetic algorithm approach. <i>Expert Systems With Applications</i> , 2009, 36, 12454-12460.	7.6	31
18	Assessing the risks of service failures based on ripple effects: A Bayesian network approach. <i>International Journal of Production Economics</i> , 2013, 141, 493-504.	8.9	31

#	ARTICLE	IF	CITATIONS
19	Concentric diversification based on technological capabilities: Link analysis of products and technologies. <i>Technological Forecasting and Social Change</i> , 2017, 118, 246-257.	11.6	30
20	Novelty-focused weak signal detection in futuristic data: Assessing the rarity and paradigm unrelatedness of signals. <i>Technological Forecasting and Social Change</i> , 2017, 120, 59-76.	11.6	30
21	Design Process Modularization: Concept and Algorithm. <i>Concurrent Engineering Research and Applications</i> , 2007, 15, 175-186.	3.2	29
22	Anticipating technology-driven industry convergence: evidence from large-scale patent analysis. <i>Technology Analysis and Strategic Management</i> , 2020, 32, 363-378.	3.5	28
23	Navigating a product landscape for technology opportunity analysis: A word2vec approach using an integrated patent-product database. <i>Technovation</i> , 2020, 96-97, 102140.	7.8	28
24	Open innovation at the national level: Towards a global innovation system. <i>Technological Forecasting and Social Change</i> , 2020, 151, 119842.	11.6	27
25	Abnormality diagnosis model for nuclear power plants using two-stage gated recurrent units. <i>Nuclear Engineering and Technology</i> , 2020, 52, 2009-2016.	2.3	24
26	A review of data analytics in technological forecasting. <i>Technological Forecasting and Social Change</i> , 2021, 166, 120646.	11.6	24
27	Robust future-oriented technology portfolios: lack of an Litterman approach. <i>R and D Management</i> , 2013, 43, 409-419.	5.3	21
28	Diagnosing service quality using customer reviews: an index approach based on sentiment and gap analyses. <i>Service Business</i> , 2016, 10, 775-798.	4.2	21
29	Hawkes process-based technology impact analysis. <i>Journal of Informetrics</i> , 2017, 11, 511-529.	2.9	21
30	Patterns of technology life cycles: stochastic analysis based on patent citations. <i>Technology Analysis and Strategic Management</i> , 2017, 29, 53-67.	3.5	20
31	Anticipating multi-technology convergence: a machine learning approach using patent information. <i>Scientometrics</i> , 2021, 126, 1867-1896.	3.0	20
32	Capacity-Fading Behavior Analysis for Early Detection of Unhealthy Li-Ion Batteries. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 2659-2666.	7.9	19
33	ON THE R&D PRIORITY SETTING IN TECHNOLOGY FORESIGHT: A DEA AND ANP APPROACH. <i>International Journal of Innovation and Technology Management</i> , 2008, 05, 201-219.	1.4	18
34	A similarity based prognostics approach for real time health management of electronics using impedance analysis and SVM regression. <i>Microelectronics Reliability</i> , 2018, 83, 77-83.	1.7	17
35	State-of-health estimation of Li-ion batteries in the early phases of qualification tests: An interpretable machine learning approach. <i>Expert Systems With Applications</i> , 2022, 197, 116817.	7.6	17
36	A doc2vec and local outlier factor approach to measuring the novelty of patents. <i>Technological Forecasting and Social Change</i> , 2022, 174, 121294.	11.6	15

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37	Screening early stage ideas in technology development processes: a text mining and <i>k</i>-nearest neighbours approach using patent information. <i>Technology Analysis and Strategic Management</i> , 2019, 31, 532-545.	3.5	13
38	An information entropy and latent Dirichlet allocation approach to noise patent filtering. <i>Advanced Engineering Informatics</i> , 2021, 47, 101243.	8.0	12
39	Novelty-focussed document mapping to identify new service opportunities. <i>Service Industries Journal</i> , 2015, 35, 345-361.	8.3	11
40	Screening ideas in the early stages of technology development: A word2vec and convolutional neural network approach. <i>Technovation</i> , 2022, 112, 102407.	7.8	11
41	Valuation of University-Originated Technologies: A Predictive Analytics Approach. <i>IEEE Transactions on Engineering Management</i> , 2021, 68, 1813-1825.	3.5	10
42	Towards robust technology roadmapping: How to diagnose the vulnerability of organisational plans. <i>Technological Forecasting and Social Change</i> , 2016, 111, 164-175.	11.6	9
43	PHM-based wiring system damage estimation for near zero downtime in manufacturing facilities. <i>Reliability Engineering and System Safety</i> , 2019, 184, 213-218.	8.9	9
44	Development of a service evolution map for service design through application of text mining to service documents. <i>Research in Engineering Design - Theory, Applications, and Concurrent Engineering</i> , 2017, 28, 251-273.	2.1	8
45	A sequential pattern mining approach to identifying potential areas for business diversification. <i>Asian Journal of Technology Innovation</i> , 2020, 28, 21-41.	2.8	7
46	An instrument for discovering new mobile service opportunities. <i>International Journal of Mobile Communications</i> , 2013, 11, 374.	0.3	5
47	Effective Indexes and Classification Algorithms for Supervised Link Prediction Approach to Anticipating Technology Convergence: A Comparative Study. <i>IEEE Transactions on Engineering Management</i> , 2023, 70, 1430-1441.	3.5	4
48	Stochastic service life cycle analysis using customer reviews. <i>Service Industries Journal</i> , 2017, 37, 296-316.	8.3	3
49	The impact of the timing of patent allowance on technology licensing performance: evidence from university invention commercialization. <i>R and D Management</i> , 2022, 52, 633-649.	5.3	3
50	Identifying New IT-Based Service Concepts Based on the Technological Strength: A Text Mining and Morphology Analysis Approach. , 2007, , .		2
51	A framework for impact analysis of the international transfer of marine technology in a climate change era: an input-output analysis and analytic hierarchy process approach. <i>Asian Journal of Technology Innovation</i> , 2011, 19, 1-19.	2.8	2
52	GTM-based service map to identify new service opportunities. <i>International Journal of Mobile Communications</i> , 2015, 13, 113.	0.3	1
53	The transformation of ownership structure and changes in principal-principal conflicts: evidence from corporate governance reforms in South Korea. <i>International Journal of Corporate Governance</i> , 2017, 8, 281.	0.2	1
54	On the R&D Priority Setting in Technology Foresight: a DEA and ANP Approach. , 2006, , .		0