Shinji Fukuda

List of Publications by Year
in descending order

53 papers	759 citations	566801 15 h-index	552369 26 g-index
55 all docs	55 docs citations	55 times ranked	820 citing authors

#	Article	IF	Citations
1	Habitat prediction and knowledge extraction for spawning European grayling (Thymallus thymallus) Tj ETQq1 1 0.784314 rgBT /Overl 47, 1-6.	1.9	111
2	Random Forests modelling for the estimation of mango (Mangifera indica L. cv. Chok Anan) fruit yields under different irrigation regimes. Agricultural Water Management, 2013, 116, 142-150.	2.4	76
3	Effect of model formulation on the optimization of a genetic Takagiâ€"Sugeno fuzzy system for fish habitat suitability evaluation. Ecological Modelling, 2011, 222, 1401-1413.	1.2	52
4	Consideration of fuzziness: Is it necessary in modelling fish habitat preference of Japanese medaka (Oryzias latipes)?. Ecological Modelling, 2009, 220, 2877-2884.	1.2	48
5	Modelling the relationship between peel colour and the quality of fresh mango fruit using Random Forests. Journal of Food Engineering, 2014, 131, 7-17.	2.7	42
6	Evaluating the potential for invasion by alien freshwater fishes in northern Kyushu Island, Japan, using the Fish Invasiveness Scoring Kit. Ichthyological Research, 2011, 58, 382-387.	0.5	33
7	Prediction ability and sensitivity of artificial intelligence-based habitat preference models for predicting spatial distribution of Japanese medaka (Oryzias latipes). Ecological Modelling, 2008, 215, 301-313.	1.2	31
8	Elevated water temperature reduces the acute toxicity of the widely used herbicide diuron to a green alga, Pseudokirchneriella subcapitata. Environmental Science and Pollution Research, 2014, 21, 1064-1070.	2.7	26
9	Abundance versus presence/absence data for modelling fish habitat preference with a genetic Takagiâ€"Sugeno fuzzy system. Environmental Monitoring and Assessment, 2012, 184, 6159-6171.	1.3	25
10	Data prevalence matters when assessing species' responses using data-driven species distribution models. Ecological Informatics, 2016, 32, 69-78.	2.3	25
11	Assessment of spatial habitat heterogeneity by coupling data-driven habitat suitability models with a 2D hydrodynamic model in small-scale streams. Ecological Informatics, 2015, 29, 147-155.	2.3	23
12	Comparing four methods for decision-tree induction: A case study on the invasive Iberian gudgeon () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	23
13	Fuzzy neural network model for habitat prediction and HEP for habitat quality estimation focusing on Japanese medaka (Oryzias latipes) in agricultural canals. Paddy and Water Environment, 2006, 4, 119-124.	1.0	19
14	Assessing the applicability of fuzzy neural networks for habitat preference evaluation of Japanese medaka (Oryzias latipes). Ecological Informatics, 2011, 6, 286-295.	2.3	19
15	Predicting distributions of seven bitterling fishes in northern Kyushu, Japan. Ichthyological Research, 2012, 59, 124-133.	0.5	18
16	Revisiting probabilistic neural networks: a comparative study with support vector machines and the microhabitat suitability for the Eastern Iberian chub (Squalius valentinus). Ecological Informatics, 2018, 43, 24-37.	2.3	17
17	The application of entropy for detecting behavioral responses in Japanese medaka (<i>Oryzias) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.1	15
18	Intra- and intercontinental variation in the functional responses of a high impact alien invasive fish. Biological Invasions, 2019, 21, 1751-1762.	1.2	15

#	ARTICLE	IF	CITATIONS
19	Assessing Nonlinearity in Fish Habitat Preference of Japanese Medaka (Oryzias latipes) Using Genetic Algorithm ^|^ndash; Optimized Habitat Prediction Models. Japan Agricultural Research Quarterly, 2008, 42, 97-107.	0.1	14
20	Numerical quantification of the significance of aquatic vegetation affecting spatial distribution of Japanese medaka (Oryzias latipes) in an agricultural canal. Landscape and Ecological Engineering, 2006, 2, 65-80.	0.7	13
21	Quality Changes in Fresh Mango Fruits (<i>Mangifera indica</i> L. â€˜Nam Dok Maiâ€™) Under Actual Distribution Temperature Profile from Thailand to Japan. Environmental Control in Biology, 2018, 56, 45-49.	0.3	12
22	Artificial lateral line for aquatic habitat modelling: An example for Lefua echigonia. Ecological Informatics, 2021, 65, 101388.	2.3	11
23	Evaluation of water dynamics of contour-levee irrigation system in sloped rice fields in Colombia. Agricultural Water Management, 2019, 217, 107-118.	2.4	8
24	Predicting potential hybridization between native and non-native Rhodeus ocellatus subspecies: the implications for conservation of a pure native population in northern Kyushu, Japan. Aquatic Invasions, 2013, 8, 219-229.	0.6	8
25	Modelling the distribution of the panâ€continental invasive fish <i>Pseudorasbora parva</i> based on landscape features in the northern Kyushu Island, Japan. Aquatic Conservation: Marine and Freshwater Ecosystems, 2013, 23, 901-910.	0.9	7
26	Habitat evaluation for the endangered fish species <i>Lefua echigonia</i> in the Yagawa River, Japan. Journal of Ecohydraulics, 2019, 4, 147-157.	1.6	7
27	Coelomycete systematics with special reference to Colletotrichum. Mycoscience, 2008, 49, 373-378.	0.3	6
28	Effect of Storage Conditions on the Postharvest Quality Changes of Fresh Mango Fruits for Export during Transportation. Environmental Control in Biology, 2018, 56, 39-44.	0.3	6
29	Effect of data quality on habitat preference evaluation for Japanese medaka (Oryzias latipes) using a simple genetic fuzzy system. , 2010, , .		5
30	Dynamics of Water Qualities under the Anaerobic and Reductive State in an Organically Polluted Closed Water Body. Journal of Rainwater Catchment Systems, 2014, 20, 49-55.	0.2	5
31	Comparison of the growth traits of a commercial pioneer tree species, paper mulberry (Broussonetia) Tj ETQq1 1 0.784314 rgBT /Overlo mechanisms underlying shade-intolerance. Agroforestry Systems, 2014, 88, 907-919.	0.9	4
32	Sensitivity-Based Calibration of the Soil and Water Assessment Tool for Hydrologic Cycle Simulation in the Cong Watershed, Vietnam. Water Environment Research, 2015, 87, 735-750.	1.3	4
33	DO ABSENCE DATA MATTER WHEN MODELLING FISH HABITAT PREFERENCE USING A GENETIC TAKAGI-SUGENO FUZZY MODEL?. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2012, 20, 233-245.	0.9	3
34	Effects of water temperature and light intensity on the acute toxicity of herbicide thiobencarb to a green alga, Raphidocelis subcapitata. Environmental Science and Pollution Research, 2018, 25, 25363-25370.	2.7	3
35	Species-specific debromination of BDE99 in teleost fish: The relationship between debromination ability and bioaccumulation patterns of PBDEs. Science of the Total Environment, 2022, 806, 151265.	3.9	3
36	Assessing the effects of zero abundance data on habitat preference modelling using a genetic Takagi-Sugeno fuzzy model. , 2011, , .		2

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37	Modeling the Relationship between Hormone Dynamics and Off-season Flowering of Litchi by Using Random Forests. Agriculture and Agricultural Science Procedia, 2015, 5, 9-16.	0.6	2
38	Flow regime shapes seasonal patterns of fish species richness and abundance in main and branch channels of a rice irrigation system. Paddy and Water Environment, 2018, 16, 783-793.	1.0	2
39	Evaluation of Soil Water Management Difference in Mango Orchards between Thailand and Japan. American Journal of Plant Sciences, 2013, 04, 182-187.	0.3	2
40	Online Monitoring System on Controlled Irrigation Experiment for Export Quality Mango in Thailand. Lecture Notes in Computer Science, 2016, , 328-334.	1.0	2
41	A genetic Takagi-Sugeno fuzzy system for fish habitat preference modelling. , 2010, , .		1
42	A discussion on the accuracy-complexity relationship in modelling fish habitat preference using genetic Takagi-Sugeno fuzzy systems. , 2011, , .		1
43	Effect of aggregation functions on the habitat preference modelling using a genetic Takagi-Sugeno fuzzy system. , 2012, , .		1
44	A short review on the application of computational intelligence and machine learning in the bioenvironmental sciences. , 2012, , .		1
45	Application of a simple genetic algorithm for the calibration of aquatic ecosystem model of an agricultural pond. Paddy and Water Environment, 2014, 12, 1-15.	1.0	1
46	Assessment of Depth Measurement Using an Acoustic Doppler Current Profiler and a CTD Profiler in a Small River in Japan. Lecture Notes in Computer Science, 2016, , 308-316.	1.0	1
47	Random Forests as a Tool for Analyzing Partial Drought Stress Based on CO₂ Concentrations in the Rootzone of Longan Trees. Environmental Control in Biology, 2018, 56, 25-31.	0.3	1
48	Estimating Soil Water Contents from Field Water Tables for Potential Rice Irrigation Criteria under Contour-Levee Irrigation Systems. Environmental Control in Biology, 2019, 57, 15-21.	0.3	1
49	Effects of data prevalence on species distribution modelling using a genetic takagi-sugeno fuzzy system. , 2013, , .		0
50	International contributions in advancing ecohydraulics. Journal of Ecohydraulics, 2019, 4, 86-87.	1.6	0
51	Modelling Fish Habitat Preference with a Genetic Algorithm-Optimized Takagi-Sugeno Model Based on Pairwise Comparisons. Advances in Intelligent and Soft Computing, 2011, , 375-387.	0.2	0
52	Sensors and Monitoring for Production and Distribution of a Tropical Fruit. Environmental Control in Biology, 2018, 56, 23-24.	0.3	0
53	MODELLING HABITAT SUITABILITY OF <i>LEFUA ECHIGONIA</i> USING RANDOM FORESTS. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2019, 75, I_541-I_546.	0.0	0