

Frank Hung Fat Leung

List of Publications by Year in descending order

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182
papers

3,679
citations

185998

28
h-index

155451

55
g-index

187
all docs

187
docs citations

187
times ranked

2425
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning of the structure and parameters of a neural network using an improved genetic algorithm. IEEE Transactions on Neural Networks, 2003, 14, 79-88.	4.8	639
2	Hybrid Particle Swarm Optimization With Wavelet Mutation and Its Industrial Applications. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 743-763.	5.5	218
3	Improved Hybrid Particle Swarm Optimized Wavelet Neural Network for Modeling the Development of Fluid Dispensing for Electronic Packaging. IEEE Transactions on Industrial Electronics, 2008, 55, 3447-3460.	5.2	155
4	Stability Analysis of Fuzzy Control Systems Subject to Uncertain Grades of Membership. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 1322-1325.	5.5	153
5	Sampled-Data Fuzzy Controller for Time-Delay Nonlinear Systems: Fuzzy-Model-Based LMI Approach. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 617-629.	5.5	136
6	A fuzzy sliding controller for nonlinear systems. IEEE Transactions on Industrial Electronics, 2001, 48, 32-37.	5.2	103
7	A novel genetic-algorithm-based neural network for short-term load forecasting. IEEE Transactions on Industrial Electronics, 2003, 50, 793-799.	5.2	102
8	An Improved Genetic Algorithm with Average-bound Crossover and Wavelet Mutation Operations. Soft Computing, 2007, 11, 7-31.	2.1	95
9	Stable and robust fuzzy control for uncertain nonlinear systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2000, 30, 825-840.	3.4	88
10	The control of switching DC-DC converters-a general LWR problem. IEEE Transactions on Industrial Electronics, 1991, 38, 65-71.	5.2	84
11	LMI-Based Stability and Performance Conditions for Continuous-Time Nonlinear Systems in Takagi-Sugeno's Form. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 1396-1406.	5.5	84
12	An improved LQR-based controller for switching DC-DC converters. IEEE Transactions on Industrial Electronics, 1993, 40, 521-528.	5.2	79
13	Short-term electric load forecasting based on a neural fuzzy network. IEEE Transactions on Industrial Electronics, 2003, 50, 1305-1316.	5.2	77
14	Lyapunov-function-based design of fuzzy logic controllers and its application on combining controllers. IEEE Transactions on Industrial Electronics, 1998, 45, 502-509.	5.2	71
15	Nonlinear state feedback controller for nonlinear systems: Stability analysis and design based on fuzzy plant model. IEEE Transactions on Fuzzy Systems, 2001, 9, 657-661.	6.5	66
16	A practical fuzzy logic controller for the path tracking of wheeled mobile robots. IEEE Control Systems, 2003, 23, 60-65.	1.0	59
17	Design and stability analysis of fuzzy model-based nonlinear controller for nonlinear systems using genetic algorithm. IEEE Transactions on Systems, Man, and Cybernetics, 2003, 33, 250-257.	5.5	58
18	Design and Stabilization of Sampled-Data Neural-Network-Based Control Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 995-1005.	5.5	51

#	ARTICLE	IF	CITATIONS
19	Stability analysis of discrete-time fuzzy-model-based control systems with time delay: Time delay-independent approach. Fuzzy Sets and Systems, 2008, 159, 990-1000.	1.6	51
20	A switching controller for uncertain nonlinear systems. IEEE Control Systems, 2002, 22, 7-14.	1.0	45
21	Fuzzy controller with stability and performance rules for nonlinear systems. Fuzzy Sets and Systems, 2007, 158, 147-163.	1.6	43
22	Optimal and Stable Fuzzy Controllers for Nonlinear Systems Based on an Improved Genetic Algorithm. IEEE Transactions on Industrial Electronics, 2004, 51, 172-182.	5.2	42
23	A hybrid evolutionary preprocessing method for imbalanced datasets. Information Sciences, 2018, 454-455, 161-177.	4.0	42
24	Analogue implementation of a neural network controller for UPS inverter applications. IEEE Transactions on Power Electronics, 2002, 17, 305-313.	5.4	38
25	Design of a Switching Controller for Nonlinear Systems With Unknown Parameters Based on a Fuzzy Logic Approach. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1068-1074.	5.5	34
26	Fuzzy control of a class of multivariable nonlinear systems subject to parameter uncertainties: model reference approach. International Journal of Approximate Reasoning, 2001, 26, 129-144.	1.9	33
27	Tuning of the structure and parameters of neural network using an improved genetic algorithm. , 0, , .		32
28	Design of fuzzy controllers for uncertain nonlinear systems using stability and robustness analyses. Systems and Control Letters, 1998, 35, 237-243.	1.3	31
29	STABILIZATION OF CHAOTIC SYSTEMS USING LINEAR SAMPLED-DATA CONTROLLER. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2021-2031.	0.7	31
30	A new hybrid Particle Swarm Optimization with wavelet theory based mutation operation. , 2007, , .		30
31	Fuzzy model based controller for an inverted pendulum. Electronics Letters, 1996, 32, 1683.	0.5	29
32	A chattering elimination algorithm for sliding mode control of uncertain non-linear systems. Mechatronics, 1998, 8, 765-775.	2.0	29
33	Quality and robustness improvement for real world industrial systems using a fuzzy particle swarm optimization. Engineering Applications of Artificial Intelligence, 2016, 47, 68-80.	4.3	27
34	Stability design of TS model based fuzzy systems. , 0, , .		25
35	Improved genetic algorithm for economic load dispatch with valve-point loadings. , 0, , .		22
36	Fuzzy rule-based combination of linear and switching state-feedback controllers. Fuzzy Sets and Systems, 2005, 156, 153-184.	1.6	22

#	ARTICLE	IF	CITATIONS
37	LMI-based Stability and Performance Design of Fuzzy Control Systems: Fuzzy Models and Controllers with Different Premises. , 2006, , .		22
38	A simple large-signal nonlinear modeling approach for fast simulation of zero-current-switch quasi-resonant converters. IEEE Transactions on Power Electronics, 1997, 12, 437-442.	5.4	21
39	On Interpretation of Graffiti Digits and Characters for eBooks: Neural-Fuzzy Network and Genetic Algorithm Approach. IEEE Transactions on Industrial Electronics, 2004, 51, 464-471.	5.2	21
40	Design and Training for Combinational Neural-Logic Systems. IEEE Transactions on Industrial Electronics, 2007, 54, 612-619.	5.2	20
41	Application of a modified neural fuzzy network and an improved genetic algorithm to speech recognition. Neural Computing and Applications, 2007, 16, 419-431.	3.2	20
42	Combination of sliding mode controller and PI controller using fuzzy logic controller. , 0, , .		19
43	SYNCHRONIZATION OF UNCERTAIN CHAOTIC SYSTEMS BASED ON THE FUZZY-MODEL-BASED APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1435-1444.	0.7	19
44	Fuzzy control of DC-DC switching converters: stability and robustness analysis/sup 1/. , 0, , .		18
45	Source Microphone Recognition Aided by a Kernel-Based Projection Method. IEEE Transactions on Information Forensics and Security, 2019, 14, 2875-2886.	4.5	18
46	A novel GA-based neural network for short-term load forecasting. , 0, , .		16
47	Design of fuzzy logic controllers for Takagiâ€“Sugeno fuzzy model based system with guaranteed performance. International Journal of Approximate Reasoning, 2002, 30, 41-55.	1.9	16
48	Fuzzy Combination of Fuzzy and Switching State-Feedback Controllers for Nonlinear Systems Subject to Parameter Uncertainties. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 269-281.	5.5	15
49	Predicting Protein-Ligand Binding Site Using Support Vector Machine with Protein Properties. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 1517-1529.	1.9	15
50	Lyapunov function based design of heuristic fuzzy logic controllers. , 0, , .		14
51	Improved stability analysis method for fuzzy logic control systems. Electronics Letters, 2000, 36, 1085.	0.5	14
52	A linear matrix inequality approach for the control of uncertain fuzzy systems. IEEE Control Systems, 2002, 22, 20-25.	1.0	14
53	A novel evolutionary preprocessing method based on over-sampling and under-sampling for imbalanced datasets. , 2013, , .		14
54	Ultrasound spine image segmentation using multi-scale feature fusion Skip-Inception U-Net (SIU-Net). Biocybernetics and Biomedical Engineering, 2022, 42, 341-361.	3.3	14

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55	An improved Lyapunov function based stability analysis method for fuzzy logic control systems. , 0, , .		12
56	Digit and Command Interpretation for Electronic Book Using Neural Network and Genetic Algorithm. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 2273-2283.	5.5	12
57	Dual-task ultrasound spine transverse vertebrae segmentation network with contour regularization. Computerized Medical Imaging and Graphics, 2021, 89, 101896.	3.5	11
58	Light-Convolution Dense Selection U-Net (LDS U-Net) for Ultrasound Lateral Bony Feature Segmentation. Applied Sciences (Switzerland), 2021, 11, 10180.	1.3	11
59	Fuzzy model reference control of wheeled mobile robots. , 0, , .		10
60	Genetic algorithm-based variable translation wavelet neural network and its application. , 0, , .		10
61	Input-dependent neural network trained by real-coded genetic algorithm and its industrial applications. Soft Computing, 2007, 11, 1033-1052.	2.1	10
62	Stability analysis of T-S fuzzy-model-based control systems using fuzzy Lyapunov function. , 2008, , .		10
63	An intelligent swarm based-wavelet neural network for affective mobile phone design. Neurocomputing, 2014, 142, 30-38.	3.5	10
64	The design of stable fuzzy logic controllers with combination of conventional controllers. , 0, , .		9
65	Stable and robust fuzzy control for uncertain nonlinear systems based on a grid-point approach. , 0, , .		9
66	Control of PWM inverter using a discrete-time sliding mode controller. , 1999, , .		9
67	A fast path planning-and-tracking control for wheeled mobile robots. , 0, , .		9
68	Economic Load Dispatch using Differential Evolution with double wavelet mutation operations. , 2010, , .		9
69	Intelligent fuzzy particle swarm optimization with cross-mutated operation. , 2012, , .		9
70	Hypoglycaemia detection using fuzzy inference system with multi-objective double wavelet mutation Differential Evolution. Applied Soft Computing Journal, 2013, 13, 2803-2811.	4.1	9
71	Hypoglycaemia detection using fuzzy inference system with intelligent optimiser. Applied Soft Computing Journal, 2014, 20, 54-65.	4.1	9
72	Bone Feature Segmentation in Ultrasound Spine Image with Robustness to Speckle and Regular Occlusion Noise. , 2020, , .		9

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73	Joint Spine Segmentation and Noise Removal From Ultrasound Volume Projection Images With Selective Feature Sharing. IEEE Transactions on Medical Imaging, 2022, 41, 1610-1624.	5.4	9
74	Restoration of half-toned color-quantized images using Particle Swarm Optimization with wavelet mutation. , 2008, , .		8
75	On interpretation of graffiti commands for eBooks using a neural network and an improved genetic algorithm. , 0, , .		7
76	On interpretation of graffiti digits and commands for eBooks: neural fuzzy network and genetic algorithm approach. , 0, , .		7
77	A new Differential Evolution with wavelet theory based mutation operation. , 2009, , .		7
78	Mobile phone identification from speech recordings using Weighted Support Vector Machine. , 2016, , .		7
79	Learning of neural network parameters using a fuzzy genetic algorithm. , 0, , .		6
80	A genetic algorithm based fuzzy-tuned neural network. , 0, , .		6
81	A local variance based approach to alleviate the scene content interference for source camera identification. Digital Investigation, 2017, 22, 74-87.	3.2	6
82	Using regularized fisher discriminant analysis to improve the performance of Gaussian supervector in session and device identification. , 2017, , .		6
83	A simple adaptive control strategy for regulated switching DC-DC converter based on grid-point concept. , 0, , .		5
84	Algorithm for eliminating chattering in sliding mode control. Electronics Letters, 1996, 32, 599.	0.5	5
85	A simple gain scheduled PID controller with stability consideration based on a grid-point concept. , 0, , .		5
86	Neural fuzzy network and genetic algorithm approach for Cantonese speech command recognition. , 0, , .		5
87	Function estimation using a neural-fuzzy network and an improved genetic algorithm. International Journal of Approximate Reasoning, 2004, 36, 243-260.	1.9	5
88	COMPUTATIONAL INTELLIGENCE TECHNIQUES FOR HOME ELECTRIC LOAD FORECASTING AND BALANCING. International Journal of Computational Intelligence and Applications, 2005, 05, 371-391.	0.6	5
89	AN IMPROVED GENETIC ALGORITHM BASED FUZZY-TUNED NEURAL NETWORK. International Journal of Neural Systems, 2005, 15, 457-474.	3.2	5
90	An integrated approach of particle swarm optimization and support vector machine for gene signature selection and cancer prediction. , 2009, , .		5

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91	The Scalable Version of Probabilistic Linear Discriminant Analysis and Its Potential as A Classifier for Audio Signal Classification. , 2018, , .		5
92	Generalized Fisher Discriminant Analysis as A Dimensionality Reduction Technique. , 2018, , .		5
93	Real-coded genetic algorithm with average-bound crossover and wavelet mutation for network parameters learning. , 0, , .		4
94	REALIZATION OF ANALOG FUZZY LOGIC CONTROL FOR PWM BOOST CONVERTERS. Journal of Circuits, Systems and Computers, 1998, 08, 411-419.	1.0	4
95	Fuzzy state feedback controller for nonlinear systems: stability analysis and design. , 0, , .		4
96	A neural fuzzy network with optimal number of rules for short-term load forecasting in an intelligent home. , 0, , .		4
97	Optimal and stable fuzzy controllers for nonlinear systems subject to parameter uncertainties using genetic algorithm. , 0, , .		4
98	A practical fuzzy logic controller for the path tracking of wheeled mobile robots. , 0, , .		4
99	Short-term daily load forecasting in an intelligent home with GA-based neural network. , 0, , .		4
100	Recognition of speech commands using a modified neural fuzzy network and an improved GA. , 0, , .		4
101	Identification of protein-ligand binding site using multi-clustering and Support Vector Machine. , 2016, , .		4
102	Gaussian Mixture Model and Gaussian Supervector for Image Classification. , 2018, , .		4
103	On fuzzy control of nonlinear systems with large parameter uncertainties: fuzzy scheduler approach. , 0, , .		3
104	Stable and robust fuzzy controller for uncertain nonlinear systems based on a multiple-grid-point approach. , 0, , .		3
105	Fast simulation of PWM inverters using MATLAB. , 1999, , .		3
106	Decision maker for robot soccer. , 0, , .		3
107	Design and stability analysis of fuzzy model based nonlinear controller for nonlinear systems using genetic algorithm. , 0, , .		3
108	A genetic algorithm based neural-tuned neural network. , 0, , .		3

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109	A genetic algorithm based variable structure Neural Network. , 0, , .		3
110	Fuzzy combination of linear state-feedback and switching controllers. Electronics Letters, 2004, 40, 410.	0.5	3
111	Stability Analysis and Performance Deign for Fuzzy-Model-Based Control System under Imperfect Premise Matching. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	3
112	Stability analysis and stabilization of polynomial fuzzy-model-based control systems using piecewise linear membership functions. , 2010, , .		3
113	Economic load dispatch using intelligent optimization with fuzzy control. , 2011, , .		3
114	Hypoglycemia detection using fuzzy inference system with genetic algorithm. , 2011, , .		3
115	Using Double Regularization to Improve the Effectiveness and Robustness of Fisher Discriminant Analysis as A Projection Technique. , 2018, , .		3
116	DA-GAN: Learning Structured Noise Removal In Ultrasound Volume Projection Imaging For Enhanced Spine Segmentation. , 2021, , .		3
117	Structure-Enhanced Attentive Learning For Spine Segmentation From Ultrasound Volume Projection Images. , 2021, , .		3
118	Lyapunov function based design of robust fuzzy controllers for uncertain nonlinear systems: distinct Lyapunov functions. , 0, , .		2
119	A neuro-fuzzy controller applying to a Cuk converter. , 0, , .		2
120	A chattering elimination algorithm for sliding mode control. , 0, , .		2
121	Design of stable and robust fuzzy controller for uncertain nonlinear systems: Lyapunov's function approach. , 0, , .		2
122	On design of stable and robust fuzzy observer-controller for uncertain nonlinear systems based on a grid-point approach. , 0, , .		2
123	Stability and robustness analysis and gain design for fuzzy control systems subject to parameter uncertainties. , 0, , .		2
124	Linear controllers for fuzzy systems subject to unknown parameters: stability analysis and design based on linear matrix inequality (LMI) approach. , 0, , .		2
125	Daily load forecasting with a fuzzy-input-neural network in an intelligent home. , 0, , .		2
126	Stability analysis, synthesis and optimization of radial-basis-function neural-network based controller for nonlinear systems. , 0, , .		2

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127	Design and stabilization of sampled-data neural-network-based control systems. , 0, , .		2
128	A variable-parameter neural network trained by improved genetic algorithm and its application. , 0, , .		2
129	Differential Evolution with adaptive population size. , 2014, , .		2
130	An under-sampling method based on fuzzy logic for large imbalanced dataset. , 2014, , .		2
131	Comparison of Supervector and Majority Voting in Acoustic Scene Identification. , 2018, , .		2
132	Discriminative Collaborative Representation and Its Application to Audio Signal Classification. , 2018, , .		2
133	An Improved GA Based Modified Dynamic Neural Network for Cantonese-Digit Speech Recognition. , 0, , .		2
134	SYNCHRONIZATION OF UNCERTAIN CHAOTIC SYSTEMS BASED ON FUZZY-MODEL-BASED APPROACH. World Scientific Series on Nonlinear Science, Series A, 2008, , 35-53.	0.0	2
135	An Improved Differential Evolution and Its Industrial Application. Journal of Intelligent Learning Systems and Applications, 2012, 04, 81-97.	0.4	2
136	Stability and robustness analysis of uncertain multivariable fuzzy digital control systems. , 0, , .		1
137	The Design Of Robust State-estimators. , 0, , .		1
138	Adaptive control of switching DC-DC converters based on a grid point approach: design and implementation. , 0, , .		1
139	On fuzzy model reference adaptive control systems: full-state feedback and output feedback. , 0, , .		1
140	Adaptive control of multivariable fuzzy systems with unknown parameters. , 0, , .		1
141	Neural-network-controlled single-phase UPS inverters with improved transient response and adaptability to various loads. , 1999, , .		1
142	Switching controller for fuzzy systems subject to unknown parameters: analysis and design based on a linear matrix inequality (LMI) approach. , 0, , .		1
143	On design of a switching controller for nonlinear systems with unknown parameters based on a model reference approach. , 0, , .		1
144	Stability analysis and design of fuzzy observer-controller for fuzzy systems. , 0, , .		1

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145	Graffiti commands interpretation for eBooks using a self-structured neural network and genetic algorithm. , 0, , .		1
146	Stable fuzzy controller design for uncertain nonlinear systems: genetic algorithm approach. , 0, , .		1
147	LMI-based Stability and Performance Conditions for Continuous-time Nonlinear Systems in Takagi-Sugeno's Form. , 2006, , .		1
148	LMI Relaxed Stability Conditions for Fuzzy-Model-based Control Systems. , 2006, , .		1
149	Stability Conditions for Fuzzy Control Systems with Fuzzy Feedback Gains. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	1
150	AN IMPROVED GENETIC-ALGORITHM-BASED NEURAL-TUNED NEURAL NETWORK. International Journal of Computational Intelligence and Applications, 2008, 07, 469-492.	0.6	1
151	Predicting protein-ligand binding site with support vector machine. , 2010, , .		1
152	An adaptive differential evolution with unsymmetrical mutation. , 2011, , .		1
153	NON-INVASIVE NOCTURNAL HYPOGLYCEMIA DETECTION FOR INSULIN-DEPENDENT DIABETES MELLITUS USING GENETIC FUZZY LOGIC METHOD. International Journal of Computational Intelligence and Applications, 2012, 11, 1250025.	0.6	1
154	Restoration of Half-toned Color-quantized Images Using Particle Swarm Optimization with Multi-wavelet Mutation. , 2012, , 39-57.		1
155	Predicting protein-ligand binding site with differential evolution and support vector machine. , 2012, , .		1
156	Weighting optimization with neural network for photo-response-non-uniformity-based source camera identification. , 2014, , .		1
157	A Class-dependent Background Model for Speech Signal Feature Extraction. , 2018, , .		1
158	Investigating and improving the utility of probabilistic linear discriminant analysis for acoustic signal classification. , 2021, 114, 103055.		1
159	The Control of Switching dc-dc Converters. , 0, , .		0
160	A simple large-signal nonlinear model for fast simulation of zero-current-switch quasi-resonant converters. , 0, , .		0
161	On the design of stable fuzzy controller based on adaptive approach. , 0, , .		0
162	A SIMPLE LARGE-SIGNAL NONLINEAR MODEL FOR ZERO-CURRENT-SWITCH QUASI-RESONANT BUCK CONVERTERS. Journal of Circuits, Systems and Computers, 1996, 06, 593-598.	1.0	0

#	ARTICLE	IF	CITATIONS
163	On design of switching controllers for uncertain multivariable nonlinear systems based on a fuzzy logic approach. , 0, , .		0
164	Stability analysis of systems with parameter uncertainties under fuzzy logic control. , 0, , .		0
165	An improved stable and robust fuzzy controller for uncertain multivariable nonlinear systems. , 0, , .		0
166	Fuzzy control of multivariable nonlinear systems subject to parameter uncertainties: model reference approach. , 0, , .		0
167	A path planning method for microrobot soccer game. , 0, , .		0
168	Stability analysis of systems with nonsymmetric dead zone under fuzzy logic control. , 0, , .		0
169	Gain estimation for an AC power line data network transmitter using a self-structured neural network and genetic algorithm. , 0, , .		0
170	Playing tic-tac-toe using a modified neural network and an improved genetic algorithm. , 0, , .		0
171	Gain estimation for an AC power line data network transmitter using a neural-fuzzy network and an improved genetic algorithm. , 0, , .		0
172	Genetic algorithm based variable-structure neural network and its industrial application. , 0, , .		0
173	A Variable Node-to-Node-Link Neural Network and Its Application to Hand-Written Recognition. , 2006, , .		0
174	A Variable Node-to-Node-Link Neural Network and Its Application to Hand-Written Recognition. , 0, , .		0
175	Control of nonlinear systems with a linear state-feedback controller and a modified neural network tuned by genetic algorithm. , 2007, , .		0
176	Editorial for ICONIP 2006. Neural Computing and Applications, 2007, 16, 503-504.	3.2	0
177	Modelling the development of fluid dispensing for electronic packaging: Hybrid Particle Swarm Optimization based-wavelet neural network approach. , 2008, , .		0
178	Relaxed stability conditions for discrete-time fuzzy-model-based control systems. , 2009, , .		0
179	A New Differential Evolution with self-terminating ability using fuzzy control and k-nearest neighbors. , 2010, , .		0
180	An immunology-inspired multi-engine anomaly detection system with hybrid particle swarm optimisations. , 2012, , .		0

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181	Fisher Discriminant Analysis with New Between-class Scatter Matrix for Audio Signal Classification. , 2018, , .		0
182	Vector-Based Feature Representations for Speech Signals: From Supervector to Latent Vector. IEEE Transactions on Multimedia, 2021, 23, 2641-2655.	5.2	0