Kazuhiro Nakadai

List of Publications by Year
in descending order

195 papers	2,818 citations	566801 15 h-index	344852 36 g-index
200 all docs	200 docs citations	200 times ranked	1446 citing authors

#	Article	IF	Citations
1	3D Convolution Recurrent Neural Networks for Multi-Label Earthquake Magnitude Classification. Applied Sciences (Switzerland), 2022, 12, 2195.	1.3	4
2	Auditory Survey of Endangered Eurasian Bittern Using Microphone Arrays and Robot Audition. Frontiers in Robotics and AI, 2022, 9, 854572.	2.0	3
3	Visual Scene Reconstruction based on Echolocation with a Generative Adversarial Network. Journal of the Robotics Society of Japan, 2022, 40, 351-354.	0.0	0
4	Fine‐scale observations of spatio‐spectro‐temporal dynamics of bird vocalizations using robot audition techniques. Remote Sensing in Ecology and Conservation, 2021, 7, 18-35.	2.2	9
5	Proposal and Evaluation of Spatial Sound Source Separationusing NMF with Multiple Microphone Arrays. Journal of the Robotics Society of Japan, 2021, 39, 669-672.	0.0	0
6	Multi-channel Environmental Sound Segmentation utilizing Sound Source Localization and Separation U-Net. , 2021, , .		4
7	EMC: Earthquake Magnitudes Classification on Seismic Signals via Convolutional Recurrent Networks. , 2021, , .		4
8	Multichannel environmental sound segmentation. Applied Intelligence, 2021, 51, 8245-8259.	3.3	5
9	Non-Invasive Monitoring of the Spatio-Temporal Dynamics of Vocalizations among Songbirds in a Semi Free-Flight Environment Using Robot Audition Techniques. Birds, 2021, 2, 158-172.	0.6	4
10	Detecting earthquakes: a novel deep learning-based approach for effective disaster response. Applied Intelligence, 2021, 51, 8305-8315.	3.3	5
11	Assessment of Sound Source Tracking Using Multiple Drones Equipped with Multiple Microphone Arrays. International Journal of Environmental Research and Public Health, 2021, 18, 9039.	1.2	1
12	Observing Nocturnal Birds Using Localization Techniques. , 2021, , .		4
13	Sound Source Tracking Using Integrated Direction Likelihood for Drones with Microphone Arrays. , 2021, , .		1
14	Assessment of a Beamforming Implementation Developed for Surface Sound Source Separation. , 2021, , .		0
15	Simultaneous Calibration of Positions, Orientations, and Time Offsets, Among Multiple Microphone Arrays. , 2021, , .		2
16	Fully-Online Always-Adaptation of Transfer Functions and Its Application to Sound Source Localization and Separation. , 2021, , .		1
17	Reactive Chameleon: A Method to Mimic Conversation Partner's Body Sway for a Robot. International Journal of Social Robotics, 2020, 12, 239-258.	3.1	3
18	Sound event aware environmental sound segmentation with Mask U-Net. Advanced Robotics, 2020, 34, 1280-1290.	1.1	9

#	Article	IF	Citations
19	Recognition of Non-Manual Content in Continuous Japanese Sign Language. Sensors, 2020, 20, 5621.	2.1	16
20	Robot Audition and Computational Auditory Scene Analysis. Advanced Intelligent Systems, 2020, 2, 2000050.	3.3	10
21	Multi-hop wireless command and telemetry communication system for remote operation of robots with extending operation area beyond line-of-sight using 920â€‰MHz/169â€‰MHz. Advanced Robotics, 2020, 34, 756-766.	1.1	4
22	Audio-Visual 3D Reconstruction Framework for Dynamic Scenes. , 2020, , .		1
23	Soundscape Analysis of Bird Songs in Forests Using Microphone Arrays. , 2020, , .		0
24	A Fourier series based Data compression model for Acoustic transfer function. , 2020, , .		1
25	Sound Source Localization Based on von-Mises-Bernoulli Deep Neural Network. , 2020, , .		3
26	Sound Source Tracking by Drones with Microphone Arrays. , 2020, , .		5
27	Design and Implementation of Real-Time Visualization of Sound Source Positions by Drone Audition. , 2020, , .		2
28	Design and Assessment of a Scan-and-sum Beamformer for Surface Sound Source Separation. , 2020, , .		1
29	Multi-channel Environmental sound segmentation. , 2020, , .		5
30	Learning Three-dimensional Skeleton Data from Sign Language Video. ACM Transactions on Intelligent Systems and Technology, 2020, 11, 1-24.	2.9	9
31	Calibration of a Microphone Array Based on a Probabilistic Model of Microphone Positions. Lecture Notes in Computer Science, 2020, , 614-625.	1.0	4
32	Acoustic monitoring of owl fledglings. Landscape Ecology and Management, 2020, 25, 87-89.	0.0	0
33	Detection of Ball Spin Direction using Hitting Sound in Tennis. , 2020, , .		0
34	Synchronization of Microphones Based on Rank Minimization of Warped Spectrum for Asynchronous Distributed Recording. , 2020, , .		5
35	An Integrated Framework for Field Recording, Localization, Classification and Annotation of Birdsongs Using Robot Audition Techniques â€" Harkbird 2.0. , 2019, , .		6
36	Special issue on robot and human interactive communication. Advanced Robotics, 2019, 33, 307-308.	1.1	0

#	Article	IF	Citations
37	Design and assessment of multiple-sound source localization using microphone arrays. , 2019, , .		1
38	Close Sound Source Localization incorporating Semi-Supervised Variational Bayesian NMF. , 2019, , .		0
39	Special issue on robot and human interactive communication. Advanced Robotics, 2019, 33, 699-699.	1.1	0
40	Recent R&D Technologies and Future Prospective of Flying Robot in Tough Robotics Challenge. Springer Tracts in Advanced Robotics, 2019, , 77-142.	0.3	14
41	2D sound source position estimation using microphone arrays and its application to a VR-based bird song analysis system. Advanced Robotics, 2019, 33, 403-414.	1.1	14
42	Acoustic Simulation in Dynamic Environments for Robot Audition. , 2019, , .		0
43	Environmental sound segmentation utilizing Mask U-Net. , 2019, , .		7
44	Weakly-Supervised Deep Recurrent Neural Networks for Basic Dance Step Generation. , 2019, , .		28
45	CNN-based Multichannel End-to-End Speech Recognition for Everyday Home Environments. , 2019, , .		8
46	Monaural Speech Enhancement for a Hose-Shaped Rescue Robot with Air-Jet Noise. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2019, 2019, 2A2-D07.	0.0	0
47	The 27th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2018). Journal of the Robotics Society of Japan, 2019, 37, 69-69.	0.0	0
48	A spatiotemporal analysis of acoustic interactions between great reed warblers (<i>Acrocephalus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Evolution, 2018, 8, 812-825.	0.8	16
49	Speech Enhancement Based on Bayesian Low-Rank and Sparse Decomposition of Multichannel Magnitude Spectrograms. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 215-230.	4.0	21
50	HARK-Bird-Box: A Portable Real-time Bird Song Scene Analysis System. , 2018, , .		5
51	Assessment of MUSIC-Based Noise-Robust Sound Source Localization with Active Frequency Range Filtering. Journal of Robotics and Mechatronics, 2018, 30, 426-435.	0.5	8
52	To animate or anime-te?. , 2018, , .		2
53	Signal Restoration based on Bi-directional LSTM with Spectral Filtering for Robot Audition. , 2018, , .		2
54	Data-driven development of Virtual Sign Language Communication Agents. , 2018, , .		2

#	Article	IF	Citations
55	Extracting the Relationship between the Spatial Distribution and Types of Bird Vocalizations Using Robot Audition System HARK. , 2018, , .		5
56	Multi-timescale Feature-extraction Architecture of Deep Neural Networks for Acoustic Model Training from Raw Speech Signal. , 2018, , .		2
57	Field observations of ecoacoustic dynamics of a Japanese bush warbler using an open-source software for robot audition HARK. Journal of Ecoacoustics, 2018, 2, 1-1.	1.5	12
58	Synchronization of multiple A/D converters based on spectral stretch. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 2P1-K05.	0.0	0
59	The 26th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2017). Journal of the Robotics Society of Japan, 2018, 36, 145-145.	0.0	0
60	Acoustic model training based on node-wise weight boundary model for fast and small-footprint deep neural networks. Computer Speech and Language, 2017, 46, 461-480.	2.9	3
61	Swarm of micro-quadrocopters for consensus-based sound source localization. Advanced Robotics, 2017, 31, 624-633.	1.1	1
62	A Spatial-Cue-Based Probabilistic Model for Bird Song Scene Analysis. , 2017, , .		4
63	Development of microphone-array-embedded UAV for search and rescue task. , 2017, , .		28
64	Design of UAV-Embedded Microphone Array System for Sound Source Localization in Outdoor Environments. Sensors, 2017, 17, 2535.	2.1	83
65	Evaluation of microphone array for sound source localization using UAV. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2017, 2017, 1P1-R05.	0.0	1
66	Special Issue on Robot Audition Technologies. Journal of Robotics and Mechatronics, 2017, 29, 15-15.	0.5	3
67	Development, Deployment and Applications of Robot Audition Open Source Software HARK. Journal of Robotics and Mechatronics, 2017, 29, 16-25.	0.5	38
68	Sound Source Localization Using Deep Learning Models. Journal of Robotics and Mechatronics, 2017, 29, 37-48.	0.5	75
69	Design and Assessment of Sound Source Localization System with a UAV-Embedded Microphone Array. Journal of Robotics and Mechatronics, 2017, 29, 154-167.	0.5	8
70	Outdoor Sound Source Detection Using a Quadcopter with Microphone Array. Journal of Robotics and Mechatronics, 2017, 29, 177-187.	0.5	11
71	Outdoor Acoustic Event Identification with DNN Using a Quadrotor-Embedded Microphone Array. Journal of Robotics and Mechatronics, 2017, 29, 188-197.	0.5	7
72	HARKBird: Exploring Acoustic Interactions in Bird Communities Using a Microphone Array. Journal of Robotics and Mechatronics, 2017, 29, 213-223.	0.5	25

#	Article	IF	Citations
73	Acoustic Monitoring of the Great Reed Warbler Using Multiple Microphone Arrays and Robot Audition. Journal of Robotics and Mechatronics, 2017, 29, 224-235.	0.5	17
74	Bird Song Scene Analysis Using a Spatial-Cue-Based Probabilistic Model. Journal of Robotics and Mechatronics, 2017, 29, 236-246.	0.5	10
75	Contributing to a Community of Open Source Software. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2017, 71, 647-653.	0.0	0
76	Real-Time Human-Voice Enhancement for a Hose-Shaped Rescue Robot Based on Multi-Channel Low-Rank Sparse Decomposition. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2017, 2017, 1P2-P05.	0.0	1
77	Psychologically-Inspired Audio-Visual Speech Recognition Using Coarse Speech Recognition and Missing Feature Theory. Journal of Robotics and Mechatronics, 2017, 29, 105-113.	0.5	1
78	Ego-Noise Suppression for Robots Based on Semi-Blind Infinite Non-Negative Matrix Factorization. Journal of Robotics and Mechatronics, 2017, 29, 114-124.	0.5	0
79	Semi-automatic bird song analysis by spatial-cue-based integration of sound source detection, localization, separation, and identification. , 2016, , .		17
80	Partially Shared Deep Neural Network in sound source separation and identification using a UAV-embedded microphone array. , 2016, , .		20
81	Online simultaneous localization and mapping of multiple sound sources and asynchronous microphone arrays. , 2016, , .		7
82	Robust sound source mapping using three-layered selective audio rays for mobile robots. , 2016, , .		7
83	Variational Bayesian multi-channel robust NMF for human-voice enhancement with a deformable and partially-occluded microphone array. , 2016, , .		5
84	Multimodal Scene Understanding Framework and Its Application to Cooking Recognition. Applied Artificial Intelligence, 2016, 30, 181-200.	2.0	2
85	Designing Speech and Multimodal Interactions for Mobile, Wearable, and Pervasive Applications. , 2016, , .		7
86	Leveraging phantom signals for improved voice-based human-robot interaction. , 2016, , .		1
87	Reduction of Computational Cost Using Two-Stage Deep Neural Network for Training for Denoising and Sound Source Identification. Lecture Notes in Computer Science, 2016, , 562-573.	1.0	2
88	Online Localization of Multiple Sound Sources and Multiple Robots with Asynchronous Microphone Arrays. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2016, 2016, 1A2-09b5.	0.0	0
89	3D Posture Estimation for a Hose-shaped Rescue Robot using a Microphone and Accelerometer Array. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2016, 2016, 1A2-10a6.	0.0	0
90	Partially Shared Deep Neural Network for Sound Source Identification. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2016, 2016, 1A1-09b4.	0.0	0

#	Article	IF	Citations
91	Simultaneous Optimization of Acoustic Event Detection and Identification with a UAV-embedded Microphone Array. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2016, 2016, 1A1-09b6.	0.0	0
92	Robot audition: Its rise and perspectives. , 2015, , .		49
93	Human-voice enhancement based on online RPCA for a hose-shaped rescue robot with a microphone array. , 2015, , .		10
94	Acoustic model training based on node-wise weight boundary model increasing speed of discrete neural networks. , 2015, , .		1
95	Audio-visual scene understanding utilizing text information for a cooking support robot. , 2015, , .		7
96	Compensating changes in speaker position for improved voice-based human-robot communication. , 2015, , .		4
97	Sound source separation for robot audition using deep learning. , 2015, , .		9
98	Beat Tracking for Interactive Dancing Robots. International Journal of Humanoid Robotics, 2015, 12, 1550023.	0.6	8
99	Interactive sound source localization using robot audition for tablet devices. , 2015, , .		4
100	Robot audition based Acoustic Event Identification using a Bayesian model considering spectral and temporal uncertainties. , 2015, , .		6
101	A case study of an automatic volume control interface for a telepresence system. , 2015, , .		3
102	Interactive interface to optimize sound source localization based on microphone array with coarse-to-fine tuning for humanoids. , 2015, , .		1
103	Utilizing visual cues in robot audition for sound source discrimination in speech-based human-robot communication. , 2015, , .		4
104	Microphone-accelerometer based 3D posture estimation for a hose-shaped rescue robot. , 2015, , .		8
105	Robot-Audition-based Human-Machine Interface for a Car. , 2015, , .		4
106	Posture estimation of hose-shaped robot by using active microphone array. Advanced Robotics, 2015, 29, 35-49.	1.1	6
107	Prevention of accomplishing synchronous multi-modal human–robot cooperation by using visual rhythms. Advanced Robotics, 2015, 29, 901-912.	1.1	1
108	Audio-visual speech recognition using deep learning. Applied Intelligence, 2015, 42, 722-737.	3.3	415

#	Article	IF	Citations
109	Improved sound source localization in horizontal plane for binaural robot audition. Applied Intelligence, 2015, 42, 63-74.	3.3	21
110	Scene Understanding Based on Sound and Text Information for a Cooking Support Robot. Lecture Notes in Computer Science, 2015, , 665-674.	1.0	3
111	Outdoor Acoustic Event Identification using Sound Source Separation and Deep Learning with a Quadrotor-Embedded Microphone Array. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 329-330.	0.0	7
112	Improvement in outdoor sound source detection using a quadrotor-embedded microphone array. , 2014, , .		47
113	A sound-based online method for estimating the time-varying posture of a hose-shaped robot. , 2014, , .		2
114	Ego-motion noise suppression for robots based on Semi-Blind Infinite Non-negative Matrix Factorization. , 2014, , .		19
115	Speech-based human-robot interaction robust to acoustic reflections in real environment. , 2014, , .		3
116	Auditory-aware navigation for mobile robots based on reflection-robust sound source localization and visual SLAM. , 2014, , .		13
117	Volume adaptation and visualization by modeling the volume level in noisy environments for telepresence system. , 2014, , .		10
118	Sound Source Localization Using Joint Bayesian Estimation With a Hierarchical Noise Model. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1953-1965.	3.8	21
119	Noise correlation matrix estimation for improving sound source localization by multirotor UAV. , 2013, , .		57
120	Posture estimation of hose-shaped robot using microphone array localization. , 2013, , .		13
121	Real-time super-resolution three-dimensional sound source localization for robots. , 2013, , .		1
122	A real-time super-resolution robot audition system that improves the robustness of simultaneous speech recognition. Advanced Robotics, 2013, 27, 933-945.	1.1	30
123	Incremental Noise Estimation in Outdoor Auditory Scene Analysis using a Quadrocopter with a Microphone Array. Journal of the Robotics Society of Japan, 2013, 31, 676-683.	0.0	2
124	Efficient Blind Dereverberation and Echo Cancellation Based on Independent Component Analysis for Actual Acoustic Signals. Neural Computation, 2012, 24, 234-272.	1.3	10
125	Robot audition for dynamic environments. , 2012, , .		23
126	Outdoor auditory scene analysis using a moving microphone array embedded in a quadrocopter. , 2012, , .		60

#	Article	IF	Citations
127	Real-time super-resolution Sound Source Localization for robots. , 2012, , .		49
128	Audio-Visual Voice Activity Detection Based on an Utterance State Transition Model. Advanced Robotics, 2012, 26, 1183-1201.	1.1	6
129	Active audio-visual integration for Voice Activity Detection based on a Causal Bayesian Network. , 2012, , .		6
130	SLAM-based Online Calibration for Asynchronous Microphone Array. Advanced Robotics, 2012, 26, 1941-1965.	1.1	10
131	Intelligent Human Tracking Based on Multimodal Integration. Transactions of the Society of Instrument and Control Engineers, 2012, 48, 349-358.	0.1	0
132	Design and implementation of selectable sound separation on the Texai telepresence system using HARK. , 2011, , .		31
133	SLAM-based online calibration of asynchronous microphone array for robot audition. , 2011, , .		27
134	Ego noise cancellation of a robot using missing feature masks. Applied Intelligence, 2011, 34, 360-371.	3.3	4
135	A multi-expert model for dialogue and behavior control of conversational robots and agents. Knowledge-Based Systems, 2011, 24, 248-256.	4.0	20
136	Whole Body Motion Noise Cancellation of a Robot for Improved Automatic Speech Recognition. Advanced Robotics, 2011, 25, 1405-1426.	1.1	8
137	Intelligent Sound Source Localization and its application to multimodal human tracking. , 2011, , .		30
138	Assessment of general applicability of ego noise estimation. , 2011, , .		18
139	Hardware improvement of cybernetic human HRP-4C for entertainment use. , 2011, , .		6
140	Skin spatial calibration using force/torque measurements. , 2011, , .		2
141	Hardware in the loop for optical flow sensing in a robotic bee. , 2011, , .		4
142	Sound Source Separation Adaptable to Environmental Changes for Robot Audition. Journal of the Robotics Society of Japan, 2011, 27, 774-781.	0.0	1
143	Machine Audition Technology that Listens to Multiple Voiced Speech at Once. Journal of the Institute of Electrical Engineers of Japan, 2011, 131, 159-163.	0.0	1
144	A Platform for Recognizing Interactive Behavior on Human-Robot Interaction. Journal of the Robotics Society of Japan, 2011, 29, 883-886.	0.0	0

#	Article	IF	Citations
145	Hardware in the loop for optical flow sensing in a robotic bee. , 2011, , .		1
146	Soft missing-feature mask generation for Robot Audition. Paladyn, 2010, 1, 37-47.	1.9	0
147	Blind Source Separation With Parameter-Free Adaptive Step-Size Method for Robot Audition. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1476-1485.	3.8	64
148	Correlation matrix estimation by an optimally controlled recursive average method and its application to blind source separation. Acoustical Science and Technology, 2010, 31, 205-212.	0.3	9
149	Two-layered audio-visual speech recognition for robots in noisy environments. , 2010, , .		6
150	Sound source separation and automatic speech recognition for moving sources. , 2010, , .		3
151	An improvement in automatic speech recognition using soft missing feature masks for robot audition. , 2010, , .		2
152	Improvement in listening capability for humanoid robot HRP-2. , 2010, , .		4
153	Speedup and performance improvement of ICA-based robot audition by parallel and resampling-based block-wise processing. , 2010, , .		1
154	Design and Implementation of Robot Audition System 'HARK' â€" Open Source Software for Listening to Three Simultaneous Speakers. Advanced Robotics, 2010, 24, 739-761.	1.1	188
155	A hybrid framework for ego noise cancellation of a robot. , 2010, , .		8
156	An easily-configurable robot audition system using Histogram-based Recursive Level Estimation. , 2010, , .		18
157	Music-Ensemble Robot That Is Capable of Playing the Theremin While Listening to the Accompanied Music. Lecture Notes in Computer Science, 2010, , 102-112.	1.0	7
158	Audio-Visual Speech Recognition System for Robots Based on Two-Layered Audio-Visual Integration Framework. Journal of the Robotics Society of Japan, 2010, 28, 970-977.	0.0	0
159	An Improvement in Audio-Visual Voice Activity Detection for Automatic Speech Recognition. Lecture Notes in Computer Science, 2010, , 51-61.	1.0	5
160	Sound source separation of moving speakers for robot audition. , 2009, , .		19
161	Voice quality manipulation for humanoid robots consistent with their head movements. , 2009, , .		3
162	Automatic speech recognition improved by two-layered audio-visual integration for robot audition. , 2009, , .		22

#	Article	IF	Citations
163	Ego noise suppression of a robot using template subtraction. , 2009, , .		32
164	Intelligent sound source localization for dynamic environments. , 2009, , .		72
165	High performance sound source separation adaptable to environmental changes for robot audition. , 2008, , .		7
166	An open source software system for robot audition HARK and its evaluation. , 2008, , .		59
167	A robot uses its own microphone to synchronize its steps to musical beats while scatting and singing. , 2008, , .		21
168	A robot referee for rock-paper-scissors sound games. , 2008, , .		12
169	Robot Audition using an Adaptive Filter Based on Independent Component Analysis. Journal of the Robotics Society of Japan, 2008, 26, 529-536.	0.0	3
170	Coarse speech recognition by audio-visual integration based on missing feature theory. , 2007, , .		9
171	Robust Recognition of Simultaneous Speech by a Mobile Robot. , 2007, 23, 742-752.		67
172	Design and implementation of a robot audition system for automatic speech recognition of simultaneous speech. , 2007, , .		14
173	Tracking of Multiple Sound Sources by Integration of Robot-Embedded and In-Room Microphone Arrays. Journal of the Robotics Society of Japan, 2007, 25, 979-989.	0.0	3
174	The Design of Phoneme Grouping for Coarse Phoneme Recognition. Lecture Notes in Computer Science, 2007, , 905-914.	1.0	1
175	Simultaneous Speech Recognition Based on Automatic Missing Feature Mask Generation by Integrating Sound Source Separation. Journal of the Robotics Society of Japan, 2007, 25, 92-102.	0.0	0
176	Noise Robust Automatic Speech Recognition Method for the Robot with Motor Noise using Missing Feature Theory. Journal of the Robotics Society of Japan, 2007, 25, 1189-1198.	0.0	0
177	Real-Time Robot Audition System That Recognizes Simultaneous Speech in The Real World. , 2006, , .		43
178	Speech Recognition for a Humanoid with Motor Noise Utilizing Missing Feature Theory. , 2006, , .		12
179	Real-Time Tracking of Multiple Sound Sources by Integration of In-Room and Robot-Embedded Microphone Arrays. , 2006, , .		22
180	Sound source tracking with directivity pattern estimation using a 64 ch microphone array. , 2005, , .		25

#	Article	IF	Citations
181	Missing Feature Theory based Interface Between Sound Source Separation and Automatic Speech Recognition and Applying to Multiple Robots. Journal of the Robotics Society of Japan, 2005, 23, 743-751.	0.0	1
182	Sound and Visual Tracking for Humanoid Robot. Applied Intelligence, 2004, 20, 253-266.	3.3	18
183	Effects of increasing modalities in recognizing three simultaneous speeches. Speech Communication, 2004, 43, 347-359.	1.6	0
184	Improvement of recognition of simultaneous speech signals using AV integration and scattering theory for humanoid robots. Speech Communication, 2004, 44, 97-112.	1.6	54
185	Human–robot non-verbal interaction empowered by real-time auditory and visual multiple-talker tracking. Advanced Robotics, 2003, 17, 115-130.	1.1	13
186	Real-Time Human Tracking by Audio-Visual Integration for Humanoids-Integration of Active Audition and Face Recognition-. Journal of the Robotics Society of Japan, 2003, 21, 517-525.	0.0	6
187	Issues in Humanoid Audition and Sound Source Localization by Active Audition.. Transactions of the Japanese Society for Artificial Intelligence, 2003, 18, 104-113.	0.1	1
188	Real-time Auditory and Visual Multiple-speaker Tracking For Human-robot Interaction. Journal of Robotics and Mechatronics, 2002, 14, 479-489.	0.5	12
189	Auditory fovea based speech separation and its application to dialog system. , 0, , .		13
190	Applying scattering theory to robot audition system: robust sound source localization and extraction. , 0, , .		48
191	Enhanced Robot Speech Recognition Based on Microphone Array Source Separation and Missing Feature Theory. , 0, , .		49
192	Robust Tracking of Multiple Sound Sources by Spatial Integration of Room And Robot Microphone Arrays. , 0, , .		35
193	Localizing Bird Songs Using an Open Source Robot Audition System with a Microphone Array. , 0, , .		11
194	Node Pruning Based on Entropy of Weights and Node Activity for Small-Footprint Acoustic Model Based on Deep Neural Networks. , 0, , .		4
195	Improvement of DOA Estimation by using Quaternion Output in Sound Event Localization and Detection. , 0, , .		4