Hideki Kawahara

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Modelling speaker-size discrimination with voiced and unvoiced speech sounds based on the effect of spectral lift. Speech Communication, 2022, 136, 23-41. | 2.8 | 5 |
| 2 | Cascaded All-Pass Filters with Randomized Center Frequencies and Phase Polarity for Acoustic and Speech Measurement and Data Augmentation. , 2021, , . | | 4 |
| 3 | Revisiting spectral envelope recovery from speech sounds generated by periodic excitation. , 2018, , . | | 2 |
| 4 | Inharmonic speech reveals the role of harmonicity in the cocktail party problem. Nature Communications, 2018, 9, 2122. | 12.8 | 53 |
| 5 | Realtime feedback of singing voice information for assisting students learning music therapy. , 2017, , . | | 1 |
| 6 | Accurate estimation of f <inf>0</inf> and aperiodicity based on periodicity detector residuals and deviations of phase derivatives. , 2017, , . | | 0 |
| 7 | The Effect of Peripheral Compression on Syllable Perception Measured with a Hearing Impairment Simulator. Advances in Experimental Medicine and Biology, 2016, 894, 307-314. | 1.6 | 2 |
| 8 | Aliasing-free implementation of discrete-time glottal source models and their applications to speech synthesis and FO extractor evaluation. , 2015, , . | | 8 |
| 9 | Hearing impairment simulator based on compressive gammachirp filter. , 2014, , . | | 4 |
| 10 | Excitation source design for high-quality speech manipulation systems based on a temporally static group delay representation of periodic signals. , 2014, , . | | 1 |
| 11 | Speaker perception. Wiley Interdisciplinary Reviews: Cognitive Science, 2014, 5, 15-25. | 2.8 | 64 |
| 12 | Proposal for an Interactive 3D Sound Playback Interface Controlled by User behavior. Communications in Computer and Information Science, 2014, , 446-450. | 0.5 | 1 |
| 13 | Developing a method to build Japanese speech recognition system based on 3-gram language model expansion with Google database. , 2013, , . | | 0 |
| 14 | Vocal tract length estimation for voiced and whispered speech using gammachirp filterbank. , 2013, , . | | 1 |
| 15 | Accurate Estimation of Compression in Simultaneous Masking Enables the Simulation of Hearing Impairment for Normal-Hearing Listeners. Advances in Experimental Medicine and Biology, 2013, 787, 73-80. | 1.6 | 6 |
| 16 | Temporally variable multi-aspect N-way morphing based on interference-free speech representations. , 2013, , . | | 21 |
| 17 | Higher order waveform symmetry measure and its application to periodicity detectors for speech and singing with fine temporal resolution. , 2013, , . | | 5 |
| 18 | Optimizing the simultaneous estimation of frequency selectivity and compression using notched-noise maskers with asymmetric levels. Proceedings of Meetings on Acoustics, 2013, , . | 0.3 | 0 |

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|----|---|-----|-----------|
| 19 | Controlling linguistic information and filtered sound identity for a new cross-synthesis vocoder. Acoustical Science and Technology, 2013, 34, 287-288. | 0.5 | 1 |
| 20 | Estimated relative vocal tract lengths from vowel spectra based on fundamental frequency adaptive analyses and their relations to relevant physical data of speakers. Proceedings of Meetings on Acoustics, 2013, , . | 0.3 | 1 |
| 21 | Analysis and synthesis of strong vocal expressions: Extension and application of audio texture features to singing voice. , 2012, , . | | 7 |
| 22 | Simplified aperiodicity representation for high-quality speech manipulation systems. , 2012, , . | | 2 |
| 23 | Comparison of performance with voiced and whispered speech in word recognition and mean-formant-frequency discrimination. Speech Communication, 2012, 54, 998-1013. | 2.8 | 28 |
| 24 | Technical foundations of TANDEM-STRAIGHT, a speech analysis, modification and synthesis framework. Sadhana - Academy Proceedings in Engineering Sciences, 2011, 36, 713-727. | 1.3 | 84 |
| 25 | An interference-free representation of instantaneous frequency of periodic signals and its application to F0 extraction. , 2011, , . | | 10 |
| 26 | Vocal Attractiveness Increases by Averaging. Current Biology, 2010, 20, 116-120. | 3.9 | 138 |
| 27 | High-quality and light-weight voice transformation enabling extrapolation without perceptual and objective breakdown. , 2010, , . | | 1 |
| 28 | Tolerance of FO adaptive time-frequency analysis for spectrographic representations. , 2010, , . | | 0 |
| 29 | High quality voice manipulation method based on the vocal tract area function obtained from sub-band LSP of straight spectrum. , 2010, , . | | 5 |
| 30 | Voice aftereffects of adaptation to speaker identity. Hearing Research, 2010, 268, 38-45. | 2.0 | 52 |
| 31 | Recent Trend in Singing Information Processing. Journal of the Institute of Electrical Engineers of Japan, 2010, 130, 360-363. | 0.0 | 0 |
| 32 | Size Perception for Acoustically Scaled Sounds of Naturally Pronounced and Whispered Words. , 2010, , 235-243. | | 1 |
| 33 | Temporally variable multi-aspect auditory morphing enabling extrapolation without objective and perceptual breakdown. , 2009, , . | | 35 |
| 34 | Noh voice quality. Logopedics Phoniatrics Vocology, 2009, 34, 157-170. | 1.0 | 20 |
| 35 | In the ear of the beholder: neural correlates of adaptation to voice gender. European Journal of Neuroscience, 2009, 30, 527-534. | 2.6 | 39 |
| 36 | Development of Speech Input Method for Interactive VoiceWeb Systems. Lecture Notes in Computer Science, 2009, , 710-719. | 1.3 | 3 |

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|----|--|-------------|-----------------------|
| 37 | v.morish'09: A Morphing-Based Singing Design Interface for Vocal Melodies. Lecture Notes in Computer Science, 2009, , 185-190. | 1.3 | 16 |
| 38 | Speech Morphing-Background and Prospective Applications Japan Journal of Logopedics and Phoniatrics, 2009, 50, 131-135. | 0.1 | 0 |
| 39 | Auditory Adaptation in Voice Perception. Current Biology, 2008, 18, 684-688. | 3.9 | 93 |
| 40 | Tandem-STRAIGHT: A temporally stable power spectral representation for periodic signals and applications to interference-free spectrum, F0, and aperiodicity estimation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , . | 1.8 | 189 |
| 41 | Vowel-based frequency alignment function design and recognition-based time alignment for automatic speech morphing. , 2008, , . | | 1 |
| 42 | Speech-to-text input method for web system using JavaScript. , 2008, , . | | 2 |
| 43 | Implementation of realtime STRAIGHT speech manipulation system: Report on its first implementation. Acoustical Science and Technology, 2007, 28, 140-146. | 0.5 | 28 |
| 44 | Warped-TSP: An acoustic measurement signal robust to background noise and harmonic distortion. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English) Tj ETQq0 0 0 rgBT / | Oveolotck] | l0 T∮ 50 457 1 |
| 45 | STRAIGHT, exploitation of the other aspect of VOCODER: Perceptually isomorphic decomposition of speech sounds. Acoustical Science and Technology, 2006, 27, 349-353. | 0.5 | 180 |
| 46 | Speech Segregation Using an Auditory Vocoder With Event-Synchronous Enhancements. IEEE Transactions on Audio Speech and Language Processing, 2006, 14, 2212-2221. | 3.2 | 6 |
| 47 | The processing and perception of size information in speech sounds. Journal of the Acoustical Society of America, 2005, 117, 305-318. | 1.1 | 197 |
| 48 | Underlying Principles of a High-quality Speech Manipulation System STRAIGHT and Its Application to Speech Segregation. , 2005, , 167-180. | | 39 |
| 49 | Efficient representation of short-time phase based on time-domain smoothed group delay. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi) Tj ETQq1 | 1 007.843 | 14 rgBT /Over |
| 50 | YIN, a fundamental frequency estimator for speech and music. Journal of the Acoustical Society of America, 2002, 111, 1917-1930. | 1.1 | 1,280 |
| 51 | Missing-data model of vowel identification. Journal of the Acoustical Society of America, 1999, 105, 3497-3508. | 1.1 | 40 |
| 52 | Dynamic sound stream formation based on continuity of spectral change. Speech Communication, 1999, 27, 235-259. | 2.8 | 12 |
| 53 | Restructuring speech representations using a pitch-adaptive time–frequency smoothing and an instantaneous-frequency-based F0 extraction: Possible role of a repetitive structure in sounds. Speech Communication, 1999, 27, 187-207. | 2.8 | 1,458 |
| 54 | Multiple period estimation and pitch perception model. Speech Communication, 1999, 27, 175-185. | 2.8 | 61 |

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|----|---|-----|-----------|
| 55 | An application of the Bayesian time series model and statistical system analysis for F0 control. Speech Communication, 1998, 24, 325-339. | 2.8 | 4 |
| 56 | Concurrent vowel identification. I. Effects of relative amplitude and F0 difference. Journal of the Acoustical Society of America, 1997, 101, 2839-2847. | 1.1 | 70 |
| 57 | Second language production training using spectrographic representations as feedback Journal of the Acoustical Society of Japan (E), 1997, 18, 341-343. | 0.1 | 6 |
| 58 | Cepstral representation of speech motivated by time–frequency masking: An application to speech recognition. Journal of the Acoustical Society of America, 1996, 100, 603-614. | 1.1 | 13 |
| 59 | Contributions of auditory feedback frequency components on F0 fluctuations. Journal of the Acoustical Society of America, 1996, 100, 2825-2825. | 1.1 | 4 |
| 60 | Interactions between speech production and perception under auditory feedback perturbations on fundamental frequencies Journal of the Acoustical Society of Japan (E), 1994, 15, 201-202. | 0.1 | 34 |
| 61 | Signal reconstruction from modified auditory wavelet transform. IEEE Transactions on Signal Processing, 1993, 41, 3549-3554. | 5.3 | 29 |
| 62 | A method for designing neural networks using nonlinear multivariate analysis—application to speakerâ€independent vowel recognition. Systems and Computers in Japan, 1990, 21, 80-88. | 0.2 | 0 |
| 63 | A Method for Designing Neural Networks Using Nonlinear Multivariate Analysis: Application to Speaker-Independent Vowel Recognition. Neural Computation, 1990, 2, 386-397. | 2.2 | 7 |
| 64 | Vowel-feature extraction from cochlear vibration using neural networks. Neural Networks, 1988, 1, 300. | 5.9 | 2 |
| 65 | A New Cosine Series Antialiasing Function and its Application to Aliasing-Free Glottal Source Models for Speech and Singing Synthesis. , 0, , . | | 14 |
| 66 | Using instantaneous frequency and aperiodicity detection to estimate F0 for high-quality speech synthesis. , 0, , . | | 13 |
| 67 | Nearly defect-free FO trajectory extraction for expressive speech modifications based on STRAIGHT. , 0, , \cdot | | 40 |
| 68 | Spectral envelope recovery beyond the nyquist limit for high-quality manipulation of speech sounds. , 0, , . | | 3 |
| 69 | Simplification and extension of non-periodic excitation source representations for high-quality speech manipulation systems. , 0, , . | | 11 |
| 70 | Auditory filterbank improves voice morphing. , 0, , . | | 1 |
| 71 | Deviation measure of waveform symmetry and its application to high-speed and temporally-fine FO extraction for vocal sound texture manipulation. , 0, , . | | 3 |
| 72 | Periodicity extraction for voiced sounds with multiple periodicity. , 0, , . | | 0 |

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|----|---|----|-----------|
| 73 | Beyond bandlimited sampling of speech spectral envelope imposed by the harmonic structure of voiced sounds. , 0, , . | | 3 |
| 74 | Vocal tract length estimation based on vowels using a database consisting of 385 speakers and a database with MRI-based vocal tract shape information. , 0, , . | | 3 |
| 75 | TUSK: A Framework for Overviewing the Performance of FO Estimators. , 0, , . | | 2 |
| 76 | The Effect of Spectral Tilt on Size Discrimination of Voiced Speech Sounds. , 0, , . | | 1 |
| 77 | A Modulation Property of Time-Frequency Derivatives of Filtered Phase and its Application to Aperiodicity and fo Estimation. , 0, , . | | 3 |
| 78 | Frequency Domain Variants of Velvet Noise and Their Application to Speech Processing and Synthesis. , $0,,$ | | 5 |