

	■ 所属	■ 職名
	総合理工学科 電気電子工学系	常勤教授
	■ 氏名	
	林 実 (Minoru Hayashi)	
■ 研究分野		■ 研究分野キーワード
コミュニケーション科学 インテリジェント I C T		コミュニケーションサイエンス、視聴覚 情報処理、脳科学、音声情報処理、自動 翻訳、人工知能、信号処理、計測工学
■ 研究テーマ		
人と技術の両面を見据え、知覚・センシング、脳科学・人工知能および音声言語・インテリジェント I C Tを中心に研究開発を進め、グローバル情報通信、知能ロボットおよびヘルスケア等の分野へ応用し、より良い豊かなコミュニケーション環境の実現に寄与する。		
■ 文献		
<p>□Hayashi,M. "Auditory evoked magnetic fields related to speaking rate of synthetic speech" BIOMAG18, 2012, p.73-</p> <p>□Hayashi,M. etc "Speech-based and Video-supported Indexing of Multimedia Broadcast News" ACM SIGIR 26, 2004, pp.441-442</p> <p>□Nariyama,S. and Hayashi,M. "A Japanese CALL program incorporating a machine translation system"WorldCALL 2003, p.163-</p> <p>□Hayashi,M. Yamada,S. Kataoka,A. and Yokoo,A. "A Prototype Japanese-to-Chinese Automatic Language Translation System" Machine Transration Summit VIII, 2001, pp.157-161</p> <p>□Hayashi,M. and Kariya,K. "Source Localization of Auditory Magnetic Fields Evoked by Syllables and Modulated Noises" Journal of the International Measurement Confederation, Vol.24, No.2, 1998, pp.69-77</p> <p>□Hayashi,M. "Analysis of Auditory Magnetic Fields Evoked by Speech Sounds" Biomedical Research, Vol.18, No.1, 1997, pp.91-100</p> <p>□Hayashi,M. "Neuromagnetic Signals Related to Vowels" Real World Computing 1997, pp.156-160</p> <p>□Odaka,K. Imada,T. Mashiko,T. and Hayashi,M. "A Portable Magnetic-Noise Free Visual Stimulator for MEG Measurements" IEICE Transaction on Information and Systems, Vol.E79-D, No.2, 1996, pp.165-169</p> <p>□Odaka,K., Imada,T. Mashiko,T. and Hayashi,M. "Discrepancy Between Brain Magnetic Fields Elicited by Pattern and Luminance Stimulations in the Fovea: Adequate Stimulus Positions and a Measure of Discrepancy" Brain Topography, Journal of Functional Neurophysiology, Vol.8, No.3, 1996, pp.309 - 316</p> <p>□Hayashi,M. and Mashiko,T. In: Ogura, C. et al. (Eds), "Recent Advances in Event-Related Brain Potential Research,"Elsevier SciencePublisher B.V. 1996, pp.517-520</p> <p>□林, 今田, 益子, 小高 "純音及び母音に対する聴覚誘発磁界M100成分の位置推定" 日本脳波・筋電図学会論文誌 Vol.23, No.3, 1995, pp.303-311</p> <p>□Hashimoto,T. Mashiko,T. Yoshikawa,K. Mizuta,T. Imada,T. and Hayashi,M "Neuromagnetic Measurements of the Human Primary Auditory Response" Electroencephalography and Clinical Neurophysiology, Vol.96, 1995, pp.348-356</p> <p>□Mashiko,T. Imada,T. Hayashi,M. and Watanabe,M. "The Analysis System for Brain Magnetic Field Data" Real World Computing 1995, pp.57-58</p> <p>□Hayashi,M. and Mashiko,T "The N100mv Components of Auditory Magnetic Fields Evoked by Consonant/Vowel Syllables and Amplitude-Envelope-Modulated Noises" Proceedings of XIth International Conference on Event-Related Potentials of the Brain, 1995, P-3-2, p.186-</p> <p>□Hayashi,M. "Analysis of Auditory Magnetic Fields Evoked by Speech Sounds" Plastic Changes in The Voco-Auditory System of The Brain, 1995, p.17-</p> <p>□Imada,T. Fukuda,K. Kawakatsu,M. Mashiko,T. Odaka,K., Hayashi,M. Aihara,K. and Kotani,M. In: C. Baumgartner. et al. (Eds), "Biomagnetism: Fundamental Research and Clinical Application," Elsevier Science, IOS Press. 1995, pp.118-119</p> <p>□Mashiko,T. Imada,T. and Hayashi,M. "Data Analysis System for Neuromagnetism"Real World Computing 1994, pp.27-28</p> <p>□Hayashi,M. "Auditory Neuromagnetic Fields Evoked by Spectral Transition of Syllables" Journal of Robotics and Mechatronics, Vol.5, No.4, 1993, pp.409-412</p> <p>□Odaka,K. Mashiko T. Imada, T. and Hayashi,M. "Measurement of Visually Evoked Magnetic Fields using the Local Stimulation in the Various Visual Fields" Journal of Robotics and Mechatronics, Vol.5, No.3, 1993, pp.232-235</p> <p>□Takeuchi,T. Mukai,M. Kuriki,S. Hayashi,M. and Imada,T. In: Hoke,M. et al. (Eds), "Biomagnetism: Clinical aspects," 1992, pp.181-184</p> <p>□Hayashi,M. Mashiko,T. Imada,T. and Odaka,K. "Brain Magnetic Fields Evoked by Five Japanese Vowels" 14th International Congress on Acoustics, 1992, I2</p> <p>□林 "音節のスペクトル変化に対する聴性誘発磁界の検討" 日本生体磁気学会論文誌 Vol.3, No.2, 1991, pp.68-73</p> <p>□Hayashi,M. "Auditory Evoked Magnetic Fields by C/V Transitions of Speech Words" Proceeding of World Congress on Medical Physics and Biomedical Engineering 1991, p.919</p>		
■ 特許等		
<p>□聴覚特性を反映した音声読み上げ方法、その装置及びプログラム、2011-102910</p> <p>□言語自動識別方法及び装置、2004-347732</p> <p>□原言語・目的言語表現パターン対作成装置及び方法、並びにプログラム、2003-263431</p> <p>□表音文字列翻訳方法及び装置及び表音文字列翻訳プログラムを格納した記憶媒体、2002-175295</p>		

■ 解説・総説

■ 著書

■ 招待講演

■ 主な研究設備等