



[Intelligent System Engineering](#) > EHARA Fumiaki



EHARA Fumiaki

Organization	Intelligent System Engineering
Position	Associate Professor
Academic Title	Doctor(Engineering)
Research Fields	Musical Acoustics

<< Research Subjects >>

1. [Measurement of Bioacoustics](#)
2. [Genetic Programming](#)
3. [Numerical Simulations for Sound and Vibration](#)
4. [Acoustics of Musical Instruments](#)

<< Academic Activities >>

Papers and Notes

1. [Fumiaki Ehara, Takahiro Kubo and Kanya Tanaka: "Measurement System of Heart Rate Using a Mbed Microcontroller", INFORMATION, Vol.17, No.2, pp.545-550, \(2014\)](#)
2. [Fumiaki Ehara, Toshiaki Tsuruda and Kanya Tanaka: "Development of a Heart Rate Measurement Method Using Body Conduction Sound Sensor", Applied Mechanics and Materials, Vol.103, pp.616-621, \(2012, Online available since 2011.9.27 at \[www.scientific.net\]\(http://www.scientific.net\)\)](#)

Presentations

1. [Fumiaki Ehara, Takahiro Kubo, Kanya Tanaka: "Measurement System of Body Conduction Sounds using a Mbed Microcontroller", Proceedings of The 1st International Conference on Industrial Application Engineering 2013, Fukuoka\(Japan\), Mar. 27 - 28 \(2013\)](#)
2. [Toshiaki Ebihara, Fumiaki Ehara, Kazuo Haruyama, Shenglin Mu, Yuhki Kitazono, Kanya Tanaka, Lifeng Zhang, Seiichi Serikawa and Shota Nakashima: "Proposal of Person Position Detecting Method using Pyroelectric Sensor", Proceedings of 2012 IEEE/SICE International Symposium on System Integration \(SII\), pp.121-124, Fukuoka\(Japan\), Dec. 16 - 18 \(2012\)](#)
3. [Fumiaki Ehara: "Development of Line Tracking Robot using Arduino", Proceedings of International Symposium on Advances in Technology Education\(ISATE2012\), C04 P038, Kitakyushu\(Japan\), Sep. 19 - 21 \(2012\)](#)
4. [Fumiaki Ehara, Toshiaki Tsuruda and Kanya Tanaka: "Measurement of Heart Rate using Body Conduction Sound Sensor", Proceedings of International Conference on Precision Instrumentation and Measurement\(CPIM2011\), CPIM2011-B-105, Xiangtan\(China\), July. 18 - 20 \(2011\)](#)
5. [Fumiaki EHARA, and Shigeru Yoshikawa: "Radiation directionality measurement of clarinets made of different wall material", Proceedings of FORUM ACUSTICUM 2005, pp.587-592, Budapest\(Hungary\), Aug. 29 - Sep. 2 \(2005\)](#)
6. [Fumiaki EHARA, Keinosuke NAGAI and Koichi MIZUTANI: "Introduction of the Lips' Two Stiffness Factors to Numerical Simulation of Brass Instruments", Proceedings of The 18th International Congress on Acoustics, vol.2, pp.1433-1436, Kyoto, \(Japan\) April 4-9 \(2004\)](#)
7. [Fumiaki EHARA, Keinosuke NAGAI and Koichi MIZUTANI: "The Effect of Lip Thickness on its Two-dimensional Vibrations in an Artificial Brass-playing System", Proceedings of International Symposium on Musical Acoustics, 1-P1-2, Nara, \(Japan\) March 31- April 3 \(2004\)](#)
8. [Fumiaki EHARA, Keinosuke NAGAI and Koichi MIZUTANI: "Relationships between vibration of artificial lips and sound frequency of a trumpet", Proceedings of International Symposium on Musical Acoustics, pp.513-516, Perugia\(Italy\) Sep. 10-14 \(2001\)](#)
9. [Fumiaki EHARA, Keinosuke NAGAI and Koichi MIZUTANI: "An experimental analysis of artificial lips blowing trumpet", Proceedings of The Seventh Western Pacific Regional Acoustics Conference, pp.587-592, Kumamoto\(Japan\) Oct. 3-5 \(2000\).](#)

