

8. 実績リスト

8.1 論文

《23年度》

- No.1 論文名: Vowel recognition based on surface electromyography with electrode gird on submental region
掲載雑誌名: Trans. Jpn. Soc. Med Biol. Eng., Vol. 50, No. 1, pp38-46, 2012
著作者: Takatomi kubo, Tomoki Toda, Kasaki Yoshida, Takumu Hattori, Kazushi Ikeda
- No.2 論文名: 未病の認識・改善に有効なストレスオントロジーの設計
掲載雑誌名: 情報処理学会研究報告 Vol.2011-MPS-86, No..26, pp.1-6,
著作者: 洞渕 彩未, 高田 雅美, 森本 恵子, 城 和貴
- No.3 論文名: ENo.bio を用いた α 波形状の推定
掲載雑誌名: 情報処理学会研究報告 Vol.2011-MPS-86, No..27, pp.1-6
著作者: 石川由羽, 高田雅美, 梅田智広, 城和貴
- No.4 論文名: MKL の追試
掲載雑誌名: 情報処理学会研究報告 Vol.2011-MPS-86, No..17, pp.1-6
著作者: 内村麻里奈 高田雅美 城和貴
- No..5 論文名: Determining attenuation properties of interfering fast and slow ultrasonic waves in cancelous bone
掲載雑誌名: Journal of the Acoustical Society of America, Vol.130, pp.2233-2240(2011.11).
著作者: A.M.Nelson, J.J.Hoffman, C.C.Anderson, M.R.Hollan, Y.Nagatani, K.MizuNo., M.Matsukawa, J.G.Miller
- No.6 論文名: Properties of ultrasonic waves in bovine bone marrow
掲載雑誌名: Ultrasound in Medicine and Biology, Vol.37, pp.1923-1929(2011.11).
著作者: T. Kubo, K. Fujimori, N. Cazier, T. Saeki, M.Matsukawa
- No.7 論文名: One-dimensional model for propagatioNo.f a pressure wave in a model of the human arterial network: comparisoNo.f theoretical and experimental results
掲載雑誌名: Journal of biomechanical engineering, Vol.133, 121005 pp.1-9 (2011.12).
著作者: M. Saito, Y. Ikenaga, M. Matsukawa, Y. Watanabe, T. Asada, P.-Y. Lagree,
- No.8 論文名: Relationships between the anisotropy of longitudinal wave velocity and hydroxyapatite crystallite orientation in bovine cortical bone
掲載雑誌名: Ultrasonics, Vol.52, pp.377-386 (2012.3).
著作者: K. Yamamoto T. Nakatsuji, Y. Yaoi, Y. Yamato, T. Yanagitani, M. Matsukawa, K. Yamazaki, Y. Matsuyama
- No.9 論文名: ワイヤレスモーションセンサによる健常高齢者と要支援者における下肢運動機能の評価
掲載雑誌名: 電気学会論文誌 C, vol. 132(1), pp. 104-110
著作者: 三好寿顕, 沼田崇之, 桑江豊, 関根正樹, 辻美和, 岡部一郎, 原圭太, 藤元登四郎, 田村俊世
- No.10 論文名: 反射形光電脈波計の位置依存性:異なる計測光, 部位における近傍 2 点間の信号出力

の比較

掲載雑誌名: ライフサポート学会誌, vol. 23(3), pp. 124-129

著作者: 前田祐佳, 関根正樹, 田村俊世, 鈴木琢治, 亀山研一

- No.11 論文名: Comparison of walking parameters obtained from the young, elderly and adults with support
掲載雑誌名: Computer Methods in Biomechanics and Biomedical Engineering, DOI: 10.1080/10255842.2012.656613
著作者: U. R. Acharya, S. V. Sree, C. M. Lim, P. C. Ang, M. Sekine, T. Tamura
- No.12 論文名: Relationship Between Measurement Site and Motion Artifacts in Wearable Reflected Photoplethysmography
掲載雑誌名: Journal of Medical Systems, vol. 35(5), pp. 969-976
著作者: Y. Maeda, M. Sekine, T. Tamura
- No.13 論文名: The advantages of wearable green reflected photoplethysmography
掲載雑誌名: Journal of Medical Systems, vol. 35(5), pp. 829-834
著作者: Y. Maeda, M. Sekine, T. Tamura

《24年度》

- No.1. 論文名: 運動時の筋の変動に対応可能な筋電信号計測法の開発
掲載雑誌名: 日本生体医工学会(掲載決定)
著作者: 小西有人、服部託夢、中村英夫、市橋則明、岡久雄、吉田正樹
- No.2. 論文名: 波構成要素の切出しと解析
掲載雑誌名: 情報処理学会論文誌数理モデル化と応用、1月に採録
著作者: 石川由羽, 高田雅美, 城和貴
- No.3. 論文名: Constitution and Phase Analysis of Alpha Waves
掲載雑誌名: 5th Biomedical Engineering International Conference (BMEiCON 2012), pp.1-5 (2012.12)
著作者: Yu Ishikawa, Masami Takata, Kazuki Joe
- No.4. 論文名: Generating a new Interview Method by using Sensing Technology to Assess Human Emotions
掲載雑誌名: Journal of Business Research Methods Vol10(2), pp110-120, 2012
著作者: Yayoi Hirose, Kiyoshi Itao and Tomohiro Umeda
- No.5. 論文名: LOX-1 is a novel marker for peripheral artery disease in type 2 diabetes.
掲載雑誌名: Metabolism 2013 Feb 19 in press.
著作者: Fukui M, Tanaka M, Senmaru T, Nakanishi M, Mukai J, Ohki M, Asano M, Yamazaki M, Hasegawa G, Nakamura N.
- No.6. 論文名: Relative contributions of porosity and mineralized matrix properties to the bulk axial ultrasonic wave velocity in human cortical bone
掲載雑誌名: Ultrasonics, Vol. 52, pp.467-471 (2012)
著作者: Julien Grondin, Quentin Grimal, Kazufumi Yamamoto, Mami Matsukawa, Amena Saïed, Pascal Laugier
- No.7. 論文名: Measurement of Wave Velocity in Cortical Bone by Micro-Brillouin Scattering Technique: Effect of Bone Tissue Properties
掲載雑誌名: Japanese Journal of Applied Physics 51 (2012) 07GF20
著作者: Kenji Fukui, Shinji Takayanagi, Daisuke Suga, Mami Matsukawa
- No.8. 論文名: Two-Wave Propagation Imaging to Evaluate the Structure of Cancellous Bone
掲載雑誌名: IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, vol. 59, No. 6, June 2012
著作者: Keisuke Yamashita, Fumiori Fujita, Katsunori Mizuno, Isao Manabe, Mami Matsukawa
- No.9. 論文名: Noninvasive Assessment of Arterial Stiffness by Pulse Wave Analysis
掲載雑誌名: IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, vol. 59,

No. 11, No.vember 2012

著作者: Masashi Saito, Mami Matsukawa, Takaaki Asada, Yoshiaki Watanabe

- No.10. 論文名: Comparative investigation of elastic properties in a trabecula using micro-Brillouin scattering and scanning acoustic microscopy
掲載雑誌名: Journal of the Acoustical Society of America, Vol.132(1) pp. EL54-EL60 (2012)
著作者: M. Kawabe, K. Fukui, M. Matsukawa, M. Granke, A. Saled, Q. Grimal, P. Laugier
- No.11. 論文名: ウシ大腿骨骨髓中の超音波伝搬特性の測定
掲載雑誌名: 日本骨形態計測学会雑誌 巻:22 号:2 ページ:1-7
著作者: 久保智弘, 藤森一樹, 松川真美
- No.12. 論文名: Comparing different numerical methods for solving arterial 1D flows in networks
掲載雑誌名: Computer methods in biomechanics and biomedical engineering, Vol.15, No..S1, pp.61-62 (2012)
著作者: X. Wang, O. Delestre, J-M. Fullana, M. Saito, Y. Ikenaga, M. Matsukawa, P.Y. Lagree
- No.13. 論文名: 高所恐怖症克服支援を目的とする簡易な背面投影ドームスクリーン VR システムの試作
掲載雑誌名: ライフサポート, vol. 24(4), pp. 194-200
著作者: 宮兆喆, 大島哲平, 宮野秀市, 増田信之, 関根正樹, 伊藤智義
- No.14. 論文名: ウェアラブルモーションセンサを用いた要支援認定者の3ヶ月に亘る低頻度運動療法の前後比較
掲載雑誌名: 生体医工学, vol. 50(6), pp. 535-542
著作者: 桑江豊, 三好寿顕, 関根正樹, 辻美和, 藤元登四郎, 田村俊世
- No.15. 論文名: Home geriatric physiological measurements
掲載雑誌名: Physiological Measurement, vol. 33, pp. 47-65
著作者: T. Tamura
- No.16. 論文名: Compressed sampling for heart rate monitoring
掲載雑誌名: Computer Methods and Programs in Biomedicine, Vol. 108(3), pp. 1191-1198
著作者: O. Faust, U. R. Acharya, J. Ma, L. C. Min, T. Tamura
- No.17. 論文名: Formal Design Methods for Reliable Computer-Aided Diagnosis
掲載雑誌名: IEEE Reviews in Biomed Eng. Vol. 5, pp. 15-28
著作者: O. Faust, U. R. Acharya, T. Tamura
- No.18. 論文名: センサ横ずれが SpO2 値へ与える影響
掲載雑誌名: 生体医工学, vol. 50(6), pp. 1-7
著作者: 木本奈津子, 小林直樹, 鎗田勝, 田村俊世, 湊小太郎
- No.19. 論文名: 動脈血液の流入, 組織酸素消費, 静脈血液の流出を考慮した新たな電気回路モデルによるパルスオキシメトリ誤差の検討
掲載雑誌名: 生体医工学, (印刷中)
著作者: 小林直樹, 田村俊世, 湊小太郎
- No.20. 論文名: ヘルスインフォマティクスの世界動向 world trend of health informatics
掲載雑誌名: 計測と制御, vol. 51(10), pp. 902-906
著作者: T. Tamura
備考: 解説

《25年度》

- No.1. 論文名: Evaluation of Structural and Thermophysical Effects on the Measurement Accuracy of Deep Body Thermometers Based on Dual-Heat-Flux Method
掲載雑誌名: Medical Engineering and Physics (Elsevier 社)
著作者: Ming HUANG, Toshiyo TAMURA, Wenxi CHEN, Shigehiko KANAYA
- No.2. 論文名: α 波構成要素の切出しと解析
掲載雑誌名: 情報処理学会論文誌数理モデル化と応用, Vol.6(2), pp.93-103, (2013)
著作者: 石川由羽, 高田雅美, 城和貴

- No.3. 論文名 : Biometrics Authentication using ANother Feature of Heartbeat Waveform
 掲載雑誌名 : 7th International Joint Conference on Biomedical Engineering Systems and Technologies, Special Session Multivariable Processing for Biometric Systems, accepted (2014)
 著作者 : Ryoko Nomura, Tomohiro Umeda, Naoko Yoshii, Masami Takata, Kazuki Joe
- No.4. 論文名 : Ontology Construction Support for Specialized Books
 掲載雑誌名 : 3rd Joint International Semantic Technology conference, accepted (2013).
 著作者 : Yuki Eguchi, Masami Takata, Kazuki Joe
- No.5. 論文名 : 生体情報圧縮のための差分符号化命令セット・プロセッサの提案
 掲載雑誌名 : 情報処理学会論文誌, Vol. 54, No. 7, pp. 1824-1834, July, 2013
 著作者 : 中塚祥子, 浜辺崇, 坂主圭史, 武内良典, 今井正治
- No.6. 論文名 : Very Tiny Inner Bladder Pressure Sensing System for Long Term
 掲載雑誌名 : Transactions of Japanese Society for Medical and Biological Engineering, Vol. 51, pp. M-119, , 2013
 著作者 : Yoshiori Takeuchi, Masaharu Imai
- No.7. 論文名 : The relationship between indoor, outdoor and ambient temperatures and morning BP surges from inter-seasonally repeated measurements.
 掲載雑誌名 : Journal of Human Hypertension
 著作者 : Saeki K, Obayashi K, Iwamoto J, Tone Norikamoto N, Tomioka, Kurumatani N
 備考 : Epub ahead of print
- No.8. 論文名 : Association of Indoor Temperature and Outdoor Temperature with Ambulatory Blood Pressure in Colder Months.
 掲載雑誌名 : Journal of Hypertension
 著作者 : Saeki K, Obayashi K, Iwamoto J, Tone Norikamoto N, Tomioka, Kurumatani N
 備考 : accepted
- No.9. 論文名 : The relationship between ultrasonic backscatter and trabecular anisotropic microstructure in cancellous bone
 掲載雑誌名 : J. Appl. Phys., Vol.115, pp.064906-1-8 (2014)
 著作者 : C. Liu, D. Ta, F. Fujita, T. Hachiken, M. Matsukawa, K. Mizuno., W. Wang
- No.10. 論文名 : Local ultrasonic wave velocities in trabeculae measured by micro-Brillouin scattering
 掲載雑誌名 : J. Acoust. Soc. Am., Vol.135(2), pp. EL109-EL114 (2014)
 著作者 : R. Tsubota, K. Fukui, M. Matsukawa
- No.11. 論文名 : 超音波骨密度計 LD-100 による大腿骨近位部骨折の有無に関する判別能の検討
 掲載雑誌名 : Osteoporosis Japan, Vol. 22, No. 1, pp. 149-154 (2014)
 著作者 : 堀井薫, 米田勇太郎, 江藤謹司, 杉本正幸, 横田秀文, 村上義和, 琴浦良彦, 眞野功, 松川真美, 大谷隆彦
- No.12. 論文名 : Application of micro-Brillouin scattering technique to characterize bone in the GHz range
 掲載雑誌名 : Ultrasonics, Vol. 54, Issue 5, pp. 1155-1161 (2014)
 著作者 : M. Matsukawa, K. Fukui, M. Kawabe
- No.13. 論文名 : An experimental study on the ultrasonic wave propagation in cancellous bone: Waveform changes during propagation
 掲載雑誌名 : J. Acoust. Soc. Am., Vol.134(6), pp. 4775-4781 (2013)
 著作者 : F. Fujita, K. Mizuno., M. Matsukawa
- No.14. 論文名 : Electrical potentials in bone induced by ultrasound irradiation in the megahertz range
 掲載雑誌名 : APPLIED PHYSICS LETTERS 103, p. 103701 (2013)
 著作者 : M. Okino., S. Coutelou, K. Mizuno., T. Yanagitani, M. Matsukawa
- No.15. 論文名 : Trial of Human Bone Cross-Sectional Imaging In vivo, Using Ultrasonic Echo Waves
 掲載雑誌名 : Jpn. J. Appl. Phys., Vol. 52, 07HF05 (2013)
 著作者 : I. Mano., K. Horii, M. Matsukawa, and T. Otani

- No.16. 論文名 : Experimental study on the pressure and pulse wave propagation in viscoelastic vessel tubes –Effects of liquid viscosity and tube stiffness
掲載雑誌名 : IEEE Trans. Ultrason., Ferroelect., Freq. Contr., Vol. 60, No. 11, pp. 2381–2388 (2013)
著作者 : Y. Ikenaga, S. Nishi, Y. Komagata, M. Saito, P. Y. Lagree, T. Asada, M. Matsukawa
- No.17. 論文名 : Assessment of participant compliance with a Web-based home healthcare system for promoting specific health checkups
掲載雑誌名 : Biocybernetics and Biomedical Engineering, Vol. 34(1), pp. 63–69
著作者 : T. Tamura, S. MaeNo., T. Hattori, Yutaka Kimura, Yuichi Kimura, M. Yoshida, K. Minato
- No.18. 論文名 : Quantitative analysis of fall risk using TUG test
掲載雑誌名 : Computer Methods in Biomechanics and Biomedical Engineering,
DOI:10.1080/10255842.2013.805211
著作者 : Zakaria, N. A, Y. Kuwae, T. Tamura, K. Minato, S. Kanaya
- No.19. 論文名 : A gait abnormality measure based on root mean square of trunk acceleration
掲載雑誌名 : Journal of NeuroEngineering and Rehabilitation, vol.10:118 ,
DOI:10.1186/1743-0003-10-118
著作者 : M. Sekine, T. Tamura, M. Yoshida, Y. Suda, Y. Kimura, H. Miyoshi, Y. Kijima, Y. Higashi, T. Fujimoto

《26年度》

- No.1. 論文名 : Evaluation of structural and thermophysical effects on the measurement accuracy of deep body thermometers based on dual-heat-flux method
掲載雑誌名 : Journal of Thermal Biology (47 巻、26–31 頁)
著作者 : Ming Huang, Toshiyo Tamura, Wenxi CHEN, and Shigehiko KANAYA
- No.2. 論文名 : Clustering of 3D-Structure Similarity Based Network of Secondary Metabolites Reveals Their Relationships with Biological Activities
掲載雑誌名 : Molecular Informatics (33 巻、11–12 号、790–810 頁)
著作者 : Yuki Ohtana, Azian Azamimi Abdullah, Md. Altaf-Ul-Amin, Ming Huang et al.
- No.3. 論文名 : Evaluation of circulating LOX-1 ligand levels in Zucker obese and diabetic rats. Obesity research & clinical practice
掲載雑誌名 : Obesity Research Clinical Practice 2015 Jan–Feb;9(1):26–30.
著作者 : I Wakabayashi, T Shimomura, M Nakanishi, K Uchida.
- No.4. 論文名 : Stronger association of indoor temperature than outdoor temperature with blood pressure in colder months.
掲載雑誌名 : Journal of Hypertension (32 巻 8 号 1582–9 頁)
著作者 : Saeki K, Obayashi K, Iwamoto J, Tone NO.kamoto N, Tomioka K, Kurumatani N
備考 : 2014 年 8 月出版
- No.5. 論文名 : Relationship between melatonin secretion and nighttime blood pressure in elderly individuals with and without antihypertensive treatment: a cross-sectional study of the HEIJO-KYO cohort.
掲載雑誌名 : Hypertension research (37 巻 10 号 908–13 頁)
著作者 : Obayashi K, Saeki K, Tone N, Kurumatani N
備考 : 2014 年 10 月出版
- No.6. 論文名 : Short-term influence of cataract surgery on circadian biological rhythm and related health outcomes (CLOCK-IOL trial): study protocol for a randomized controlled trial.
掲載雑誌名 : Trials (15 巻 514 頁)
著作者 : Saeki K, Obayashi K, Nishi T, Miyata K, Maruoka S, Ueda T, Okamoto M, Hasegawa T, Matsuura T, Tone NO.gata N, Kurumatani N
備考 : 2014 年 12 月 29 日出版

- No.7. 論文名 : Lower melatonin secretion in Older females: gender differences independent of light exposure profiles.
 掲載雑誌名 : Journal of Epidemiology (25 卷 1 号 38-43 頁)
 著作者 : Obayashi K, Saeki K, Tone N, Iwamoto J, Miyata K, Ikeda Y, Kurumatani N
 備考 : 2015 年 1 月 5 日出版
- No.8. 論文名 : Estimation of in vivo cortical bone thickness using ultrasonic waves
 掲載雑誌名 : Journal of Medical Ultrasonics, DOI 10.1007/s10396-015-0617-5 (2015)
 著作者 : I. MaNo., K. Horii, H. HagiNo., T. Miki, M. Matsukawa, T. Otani
- No.9. 論文名 : Effects of microstructure and water on the electrical potentials in bone induced by ultrasound irradiation
 掲載雑誌名 : Appl. Phys. Lett., Vol. 106, p. 073704 (2015)
 著作者 : H. Tsuneda, S. Matsukawa, S. Takayanagi, K. MizuNo., T. Yanagitani, M. Matsukawa
- No.10. 論文名 : Serologically Determined Gastric Mucosal Condition Is a Predictive Factor for Osteoporosis in Japanese Men
 掲載雑誌名 : Digestive Diseases and Sciences, DOI 10.1007/s10620-015-3576-1 (2015)
 著作者 : S. MizuNo., D. Matsui, I. Watanabe, E. Ozaki, N. Kuriyama, Y. Watanabe
- No.11. 論文名 : Decreased cortical thickness, as estimated by a newly developed ultrasound device, as a risk for vertebral fracture in type 2 diabetes mellitus patients with eGFR of less than 60 mL/min/1.73 m²
 掲載雑誌名 : Osteoporos Int. DOI 10.1007/s00198-014-2843-x (2014)
 著作者 : T. Mishima, K. Motoyama, Y. Imanishi, K. Hamamoto, Y. Nagata, S. Yamada, N. Kuriyama, Y. Watanabe, M. Emoto, M. Inaba
- No.12. 論文名 : 日本人閉経女性における肥満と骨質に関する検討
 掲載雑誌名 : Osteoporosis Japan, Vol. 22, No. 3, pp. 29-32 (2014)
 著作者 : 尾崎悦子, 栗山長門, 松井大輔, 渡邊功, 稲葉雅章, 今西康夫, 水野成人, 宮谷史太郎, 山本俊郎, 金村成智, 堀井基行, 渡邊能行
- No.13. 論文名 : Fast and slow wave detection in bovine cancellous bone in vitro using bandlimited deconvolution and Prony's method
 掲載雑誌名 : J. Acoust. Soc. Am., Vol.136(4), pp. 2015-2024 (2014)
 著作者 : K. Wear, Y. Nagatani, K. MizuNo., M. Matsukawa
- No.14. 論文名 : Influence of the circumferential wave on the fast and slow wave propagation in small distal radius bone
 掲載雑誌名 : Jpn. J. Appl. Phys., Vol. 53, No. 7S, pp. 07KF07-1-3 (2014)
 著作者 : I. MaNo., K. Horii, F. Fujita, Y. Nagatani, M. Matsukawa, T. Otani
- No.15. 論文名 : Two-wave behavior under various conditions of transition area from cancellous bone to cortical bone
 掲載雑誌名 : Ultrasonics, Vol. 54, No. 5, pp.1245-1250 (2014)
 著作者 : Y. Nagatani, K. MizuNo., M. Matsukawa
- No.16. 論文名 : Application of a micro-Brillouin scattering technique to characterize bone in the GHz range
 掲載雑誌名 : Ultrasonics, Vol. 54, No. 5, pp.1155-1161 (2014)
 著作者 : M. Matsukawa, R. Tsubota, M. Kawabe, K. Fukui
- No.17. 論文名 : Evolution of bone biomechanical properties at the micrometer scale around titanium implant as a function of healing time
 掲載雑誌名 : Phys. Med. Biol., Vol. 59, No. 6, pp. 1389-1406 (2014)
 著作者 : R. Vayron, M. Matsukawa, R. Tsubota, V. Mathieu, E. Barthel, G. Haiat
- No.18. 論文名 : Wearable photoplethysmographic sensors-past and present
 掲載雑誌名 : Electronics, vol. 3, pp. 281-302
 著作者 : Tamura T, Maeda Y, Sekine M, Yoshida M
- No.19. 論文名 : 光電脈波信号に重畳する体動アーチファクトの除去に関する研究

- 掲載雑誌名: デザントスポーツ科学, vol. 35, pp. 123-130
 著作者: 関根正樹, 前田祐佳, 田村俊世, 吉田正樹
- No.20. 論文名: ActivatioNo.f Brain Function in a Computer-based Neuropsychological Test Estimated Using fMRI
 掲載雑誌名: Advanced Biomedical Engineering, vol. 3, pp. 72-79
 著作者: Kodabashi A, Kamiya S, Otsubo T, Higashi Y, Tsuji M, Fujimoto T, Sekine M, Nambu M, Tamura T
 - No.21. 論文名: Fall-risk classificatioNo.f the timed up-and-go test with principle component analysis
 掲載雑誌名: Int. J Neurorehabilitation, vol. 1(1), DOI 10.4172/ijn.1000106,
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