ISSN: 1937-6871 Volume 14, Number 6, June 2021



JBISE



Journal Editorial Board

ISSN 1937-6871 (Print) ISSN 1937-688X (Online)

https://www.scirp.org/journal/jbise

Honorary Editor-in-Chief

Prof. Kuo-Chen Chou Gordon Life Science Institute, San Diego, California, USA

Editorial Board

Prof. Christopher J. Branford-White London Metropolitan University, UK

Prof. Thomas Casavant University of Iowa, USA

Dr. Feng Cheng University of South Florida, USA

Dr. Xinguang Cui Huazhong University of Science and Technology, China

Prof. Senshi FukashiroThe University of Tokyo, JapanProf. Dayong GaoUniversity of Washington, USA

Dr. Ernesto GoldmanOhio State University Wexner Medical Center, USA

Prof. Reba Goodman
Columbia University, USA
Prof. Ridha Hambli
Orleans University, France
Dr. Zeng-Jian Hu
Howard University, USA
Prof. Telephi Wilmshi

Prof. Takeshi Kikuchi

Prof. Rob Krams

Imperial College London, UK

Dr. Lukasz Kurgan

University of Alberta, Canada

Prof. Juan Liu

Wuhan University, China

Dr. Meng Ma

Icahn School of Medicine at Mount Sinai, USA

Dr. Girdhar K. Pandey

University of Delhi South Campus, India

Prof. Panagote (Panos) M. Pardalos University of Florida, USA

Prof. Alessandro PoggiIRCCS Ospedale Policlinico San Martino, ItalyProf. Kota V. RamanaUniversity of Texas Medical Branch, USA

Dr. Likun Tan Scientific Forming Technologies Corporation, USA

Dr. Yanmei Tie Harvard Medical School, USA

Prof. Giuseppe Vairo
University of Rome "Tor Vergata", Italy
Prof. Zhizhou Zhang
Harbin Institute of Technology, China



ISSN Online: 1937-688X ISSN Print: 1937-6871

Table of Contents

Volume 14	Number 6	June 2021
•	nfluence of Parafunctional Loads on the Bone-Prosth nite Element Analysis	nesis System:
H. F. Losada, E. C	Gonçalves, J. L. Valin, L. Ide	223
	of the Source of Motor Program Signal: Study on the and sEMG Signal in Normal Children and Adults	Correlation between
M. Qi, X. J. Xie, I	H. Y. Pang, Y. J. Sun, C. Q. Fang, W. R. Zhao	
	ural Representation of Finger-Movement Directions ography Independent Components	Using
M. M. Tellache, I	H. Kambara, Y. Koike, M. Miyakoshi, N. Yoshimura	240
	icial Intelligence on Colposcopy Images, in the Diagrers: A Study Protocol for a Randomized Controlled	
A. R. Luca, T. F.	Ursuleanu, L. Gheorghe, R. Grigorovici, S. Iancu, M. Hlusnea	ac, C. Preda, A. Grigorovici266
-	Maturation of Radio-Cephalic Arteriovenous Fistula e and Vascular Geometric Parameters	Using a Model Relating
Y. Yang, N. D. Sc	chiava, P. Kulisa, M. El Hajem, B. Bou-Saïd, S. Simoëns, P. Lei	rmusiaux271
A Novel Method	for Automated Lung Region Segmentation in Chest	X-Ray Images
E. Matsuyama		288
Images, in the Di	icial Intelligence on Segmental Volumes, Constructed iagnosis and Staging of Cervical Cancers and Thyroid andomized Controlled Trial	
T. F. Ursuleanu.	A. R. Luca, L. Gheorghe, R. Grigorovici, S. Iancu, M. Hlusnea	ac, C. Preda, A. Grigorovici300

Journal of Biomedical Science and Engineering (JBiSE) Journal Information

SUBSCRIPTIONS

The *Journal of Biomedical Science and Engineering* (Online at Scientific Research Publishing, https://www.scirp.org/) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$89 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:

Copyright © 2021 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

http://creativecommons.org/licenses/by/4.0/

Copyright for individual papers of the journal:

Copyright © 2021 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: jbise@scirp.org

Journal of Biomedical Science and Engineering (JBiSE)

https://www.scirp.org/journal/jbise

JBiSE, an international journal, publishes research and review articles in all important aspects of biology, medicine, engineering, and their intersection. Both experimental and theoretical papers are acceptable provided they report important findings, novel insights, or useful techniques in these areas. All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed in hard copy.

Subject Coverage

- Applied Biomaterials
- Bioelectrical and Neural Engineering
- Bioinformatics and Computational Biology
 Biomechanics and Biotransport
- Biomedical and Environmental Sciences
 Biomedical Chemistry

- Biomedical Chromatography
 Biomedical Devices, Sensors, Artificial Organs and Nano Technologies
- Biomedical Engineering
 Biomedical Imaging, Processing and Visualization
- Biomedical Informatics
- Biomedical Materials
- Biomedical Microdevices
- Biomedical Modeling
 Biomedical Sciences and Applications
- Biomedical Semantics
- Biomedical Signal Processing and Control
- Biomedicine and Biotechnology
- Biomedicine and Pharmacotherapy
- Clinical Engineering, Wearable and Real-Time Health Monitoring Systems
- Computer Methods and Programs in Biomedicine
- Genetic Engineering
- History and Philosophy of Biomedical Sciences
- Mechanical Behavior of Biomedical Materials
- Medical Biochemistry
- Medical Cell Biology
- Molecular and Genetic Medicine
- Nano-Bio-Analysis
- Negative Results in Biomedicine
- ●NMR in Biomedicine
- ●NMR/CT/ECG Technologies and Electromagnetic Field Simulation
- Nonlinear Biomedical Physics
- Numerical Methods in Biomedical Engineering
 Pharmaceutical and Biomedical Analysis
 Physiological Signal Processing

 Proteomica

- Proteomics
- Software, Tools and Application in Medical Engineering
- Structure-Based Drug Design

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

https://www.scirp.org/journal/jbise

Email: jbise@scirp.org



Honorary Editor-in-Chief

Prof. Kuo-Chen Chou

Gordon Life Science Institute, San Diego, California, USA

Editorial Board

Prof. Christopher J. Branford-White

Prof. Thomas Casavant Dr. Feng Cheng

Dr. Xinguang Cui

Prof. Senshi Fukashiro

Prof. Dayong Gao Dr. Ernesto Goldman

Prof. Reba Goodman

Prof. Ridha Hambli Dr. Zeng-Jian Hu

Prof. Takeshi Kikuchi

Prof. Rob Krams

Dr. Lukasz Kurgan

Prof. Juan Liu

Dr. Meng Ma

Dr. Girdhar K. Pandey Prof. Panagote (Panos) M. Pardalos

Prof. Alessandro Poggi

Prof. Kota V. Ramana

Dr. Likun Tan

Dr. Yanmei Tie

Prof. Giuseppe Vairo Prof. Zhizhou Zhang

London Metropolitan University, UK

University of Iowa, USA University of South Florida, USA

Huazhong University of Science and Technology, China The University of Tokyo, Japan

University of Washington, USA

Ohio State University Wexner Medical Center, USA

Columbia University, USA

Orleans University, France Howard University, USA

Ritsumeikan University, Japan

Imperial College London, UK

University of Alberta, Canada Wuhan University, China

Icahn School of Medicine at Mount Sinai, USA

University of Delhi South Campus, India

University of Florida, USA

IRCCS Ospedale Policlinico San Martino, Italy University of Texas Medical Branch, USA

Scientific Forming Technologies Corporation, USA

Harvard Medical School, USA

University of Rome "Tor Vergata", Italy Harbin Institute of Technology, China

ISSN 1937-6871 (Print), 1937-688X (Online)

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience





Website: https://www.scirp.org Subscription: sub@scirp.org Advertisement: service@scirp.org