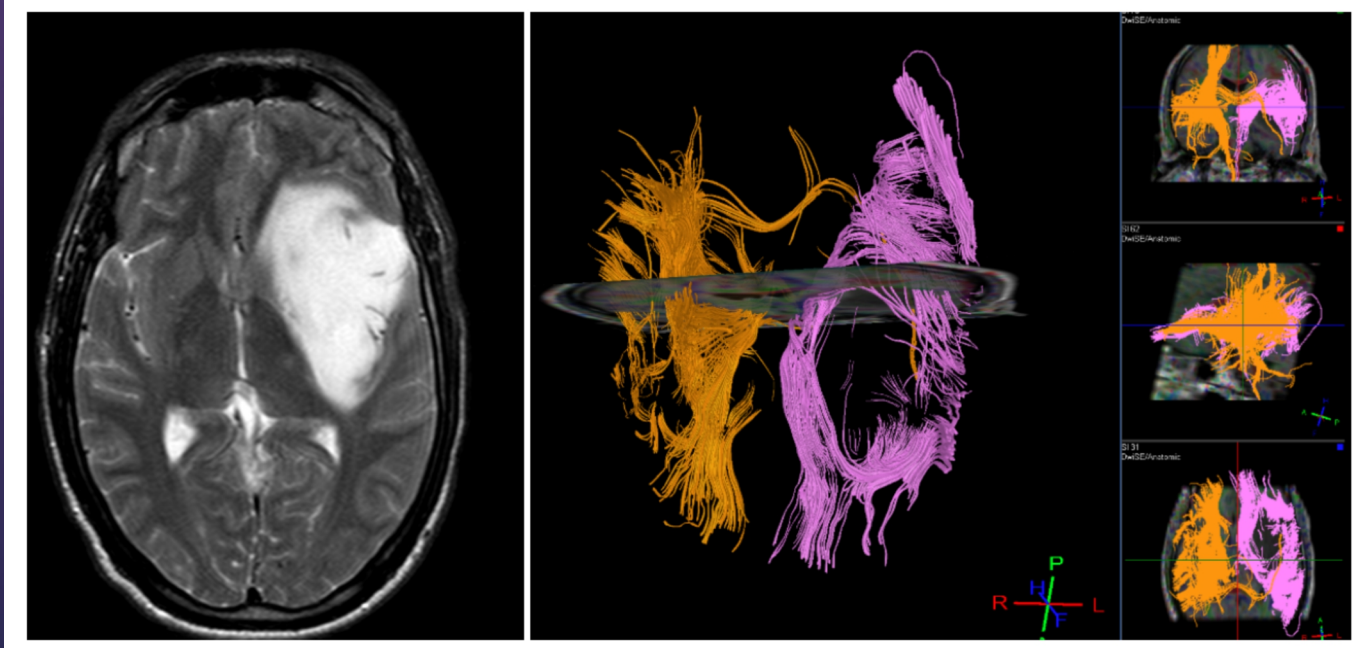
ISSN: 2164-2788 Volume 4, Number 2, June 2014

Scientific Research

Open Journal of Medical Imaging



ISSN: 2164-2788
9 772164 278007 02

www.scirp.org/journal/ojmi

Journal Editorial Board

ISSN Print: 2164-2788 ISSN Online: 2164-2796

http://www.scirp.org/journal/ojmi

Editor-in-Chief

Prof. Michael L. Goris Stanford University, USA

Editorial Board

Prof. Ahmed Abdel Khalek Abdel Razek Mansoura Faculty of Medicine, Egypt
Prof. Gjumrakch Aliev University of Atlanta, USA
Dr. Mohammad Reza Ay Tehran University of Medical Sciences, Iran
Dr. Ying Bai HeartFlow Inc., USA
Dr. Mukesh Dhamala Georgia State University, USA
Dr. Yasunobu Hayabuchi University of Tokushima, Japan
Dr. Peter Kalina Mayo Clinic, USA
Dr. Chan Kyo Kim Sungkyunkwan University, South Korea
Dr. Marina Leitman Tel Aviv University, Israel
Dr. George K. Matsopoulos National Technical University of Athens, Greece
Dr. Carlo Miniussi University of Brescia, Italy
Prof. Tinsu Pan University of Texas M. D. Anderson Cancer Center, USA
Prof. Hui-Xiong Xu Shanghai Tenth People's Hospital of Tongji University, China
Dr. Jinyuan Zhou Johns Hopkins University, USA
Dr. Hongyun (June) Zhu University of Arkansas for Medical Sciences, USA
Dr. Hongming Zhuang University of Pennsylvania, USA

Open Journal of Medical Imaging, 2014, 4, 49-101
Published Online June 2014 in SciRes. http://www.scirp.org/journal/ojmi

Scientific Research

Table of Contents

Volume 4 Number 2 June 2014

Usefulness of the SNR Using the Subtraction Method and Image Visibility Using the Howlett Chart Method in X-Ray Fluoroscopic System

S. Nishihara, Y. Yamashita, N. Kawai, H. Otsuka.....49

Physical Measurements for the Accuracy of Cone-Beam CT in Dental Radiography

W. I. Shaibah, I. A. Yamany, S. D. Jastaniah.....57

Volumetric Assessment of Corticospinal Tract Infiltration by Astrocytoma Using Diffusion Tensor Tractography

M. A. Shaaban, T. K. Alloush, M. H. Ibrahim, A. Abd el bar, S. H. Morad.....65

Micro-Computed Tomography Provides Accurate Measurement for Cardiac Function in Infarcted Rat Heart

S. Matsushita, M. Naito, A. Amano.....72

Clinical and Radiological Localization of Language Dysfunctions in Acute Ischemic Stroke

A. A. Z. Dwidar, T. K. Alloush, M. Y. A. El-Ella, N. S. El-Din Ahmed, K. M. Maher, M. A. M. Nada, M. H. Ibrahim.....80

Gallbladder Disorders Detected by Ultrasound

H. E. H. Eltyib, A. M. Al-Garni, S. D. Jastaniah.....86

Effect of Atrial Fibrillation on Acute Ischemic Stroke Severity

T. K. Alloush, M. H. Ibrahim, N. S. El Dein Ahmed Ibrahim, G. S. El-Shahed, L. M. N. El-Sayed, M. H. Ibrahim, H. A. Azmy.....95

The figure on the front cover is from the article published in Open Journal of Medical Imaging, 2014, Vol. 4, No. 2, pp. 65-71 by Marwa Adel Shaaban, *et al*.

Open Journal of Medical Imaging (OJMI)

Journal Information

SUBSCRIPTIONS

The *Open Journal of Medical Imaging* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: $79 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 © 2014 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 © 2014 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: ojmi@scirp.org



Call for Papers

Open Journal of Medical Imaging

ISSN 2164-2788 (Print) ISSN 2164-2796 (Online)
http://www.scirp.org/journal/ojmi

Open Journal of Medical Imaging (**OJMI**) is an international peer-reviewed, open access journal publishing in English original research studies, reviews and case reports in all aspects of Medical Imaging. Symposia or workshop papers may be published as supplements.

Editor-in-Chief

Prof. Michael L. Goris Stanford University, USA

Editorial Board

Prof. Ahmed Abdel Khalek Abdel Razek	Mansoura Faculty of Medicine, Egypt
Prof. Gjumrakch Aliev	University of Atlanta, USA
Dr. Mohammad Reza Ay	Tehran University of Medical Sciences, Iran
Dr. Ying Bai	HeartFlow Inc., USA
Dr. Mukesh Dhamala	Georgia State University, USA
Dr. Yasunobu Hayabuchi	University of Tokushima, Japan
Dr. Peter Kalina	Mayo Clinic, USA
Dr. Chan Kyo Kim	Sungkyunkwan University, South Korea
Dr. Marina Leitman	Tel Aviv University, Israel
Dr. George K. Matsopoulos	National Technical University of Athens, Greece
Dr. Carlo Miniussi	University of Brescia, Italy
Prof. Tinsu Pan	University of Texas M. D. Anderson Cancer Center, USA
Prof. Hui-Xiong Xu	Shanghai Tenth People's Hospital of Tongji University, China
Dr. Jinyuan Zhou	Johns Hopkins University, USA
Dr. Hongyun (June) Zhu	University of Arkansas for Medical Sciences, USA
Dr. Hongming Zhuang	University of Pennsylvania, USA

Subject Coverage

The journal publishes original papers including but not limited to the following fields:

- Abdominal Imaging
- Biomedical Imaging
- Brain Imaging and Behavior
- Breast Thermography
- Cardiovascular Imaging
- Clinical Imaging
- Clinical Physiology and Functional Imaging
- Clinical Positron Imaging
- Computer Vision and Image Understanding
- Computerized Medical Imaging and Graphics
- Contrast Media & Molecular Imaging
- Imaging & Microscopy
- Magnetic Resonance Imaging (MRI)
- Mathematical Imaging and Vision
- Medical Image Analysis
- Medical Imaging and Radiation Oncology
- Medical Imaging and Radiation Sciences
- Molecular Imaging and Biology
- Neuroimaging
- Nuclear Medicine and Molecular Imaging
- Radiography
- Real-Time Imaging
- Tomography
- Ultrasound

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

Website and E-Mail

http://www.scirp.org/journal/ojmi **Email: ojmi@scirp.org**

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, by delivering superior scientific publications and scientific information solution provider that enable advancement in scientific research.

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, world-wide, 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



Scientific Research

Website: http://www.scirp.org

Subscription: sub@scirp.org

Advertisement: service@scirp.org