

# Advances in Computed Tomography





# **Journal Editorial Board**

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

.....

### **Editorial Board**

Dr. Vikas Agarwal University of Pittsburgh, USA

**Dr. Gang Cheng**University of Medicine and Dentistry of New Jersey, USA

**Dr. Wing-Hoi Cheung** Chinese University of Hong Kong, Hong Kong (China)

Dr. Teja Guda University of Texas San Antonio, USA

Dr. Daichi Hayashi Boston University School of Medicine, USA

Dr. Muhammad Ramzan Saeed Ashraf Janjua University of Sargodha, Pakistan

Dr. Edward Yungjae Lee Harvard Medical School, USA

**Dr. Shi Lin** Chinese University of Hong Kong, Hong Kong (China)

**Dr. Jun Ni** The University of Iowa, USA

**Dr. Hyunjin Park** Gachon University, Korea (South)

Dr. Pina Christine Sanelli Weill Cornell Medical College, USA

Dr. Joseph M. Wallace III Indiana University, USA

**Dr. Defeng Wang**The Chinese University of Hong Kong, Hong Kong (China)



# TABLE OF CONTENTS

Volume 1	Number 2	September 2012
Porosity Ana	alysis Based on CT Images of Coal under Uniaxia	l Loading
L. T. Mao, P.	. Shi, H. Tu, L. Q. An, Y. Ju, N. Hao	5
Validation of	f a Novel Method for Cardiac Output Estimation	by CT Coronary Angiography
H. H. Mehta,	B. G. Choi, R. Sanai, R. S. Dusaj, A. Mohsen, C. L. Liang,	J. F. Lewis, R. K. Zeman11

Copyright © 2012 SciRes.

### **Advances in Computed Tomography (ACT)**

### **Journal Information**

### SUBSCRIPTIONS

The Advances in Computed Tomography (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

### **Subscription rates:**

Print: \$39 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©2012 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

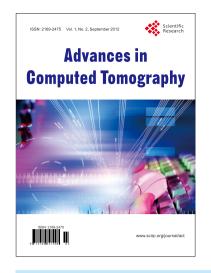
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 assumes 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: act@scirp.org



# Advances in Computed Tomography

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

Advances in Computed Tomography (ACT) is an open access journal published quarterly. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in all areas of computed tomography.

All manuscripts must be prepared in English, and are subject to a rigorous peer-review process. Accepted papers will immediately appear online followed by printed in hard copy. The areas covered by Advances in Computed Tomography (ACT) include but are not limited to:

- Abdominal and Pelvic CT (Virtual Colonoscopy)
- · Adverse Effects of CT
- Analysis of Mineral In-Growth in Scaffolds for Tissue Engineering (in Vitro and in Vivo)
- Cardiac CT
- CT Arthrography
- CT Conlonography
- CT-Guided Biopsy
- CT Optimization
- CT Pulmonary Angiogram (CTPA)
- CT Studies in Bone
- Electron Beam Tomography
- Head CT
- High-Resolution Peripheral Quantitative CT
- High Resolution CT
- In Vivo CT for Studies of Bone Remodeling Dynamics
- Lungs CT
- MicroCT and Synchrotron CT Based Analysis of Bone Micro-Architecture and Mineralization (in Vitro)
- Microtomography
- Multidetector CT (MDCT)
- PFT
- pQCT Analysis of Architecture in Larger Rodents
- Reduction of Artifacts of CT Derived from Implants
- Spiral Computed Tomography
- Synchrotron-Based Analyses of Lacunar-Canilicular Networks and Bone Damage Accrual and Propagation
- Whole Body Imaging (Full-Body CT Scan)

# **Notes for Intending Authors**

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.

E-mail: act@scirp.org

### Website and E-Mail