The 7th International Conference on Bioinformatics and Biomedical Engineering (iCBBE 2013)
Conference Program Committee

General Chair

Prof. Kuo-Chen Chou
The Gordon Life Science Institute, USA

TPC Chair

Prof. James J. Chou
Harvard Medical School, USA

TPC

Dr. Satyaprakash Nayak
Cornell University, USA
Dr. Arun Upadhyay
The Procter & Gamble Company, USA
Dr. Ahmed Abdulamier Hussain Alamiery
University of Technology, Iraq
Dr. Feng Cheng
University of South Florida (USF), USA
Prof. Yu Chen
University of Strathclyde, UK
Dr. Humberto González-Díaz
IKERBASQUE. Basque Foundation for Science, Spain
Prof. Lukasz Kurgan
University of Alberta, Canada
Prof. Kwoh Chee Keong
Nanyang Technological University, Singapore
Prof. Juan Liu
Wuhan University, China
Dr. Loris Nanni
University of Padua, Italy
Dr. Ganesan Pugalenthi
King Abdullah University of Science and Technology, Saudi-arabia
Dr. G.P.S. Raghava
Institute of Microbial Technology, India
Prof. Zhiyong Yuan
Wuhan University, China
Dr. Xiaofeng Yang
Emory University, USA
Dr. Bin Zhang
Icahn School of Medicine at Mount Sinai, USA
Dr. Wei Zhong
University of South Carolina Upstate, USA
Prof. Fengfeng Zhou
Chinese Academy of Sciences, China
# TABLE OF CONTENTS

**Volume 5  Number 10B  October 2013**

**Construction and Application of the Multidimensional Table for Knowledge Discovery in Ancient Chinese Books on Materia Medica**

R. Jin, Q. Lin, J. Zhou, B. Y. Sun, B. Zhang ................................................................. 1

**Treatment Principles of Obesity with Chinese Herbal Medicine: Literature Analysis by Text Mining**


**Monte Carlo Simulation and a Review of the Physics of the Positron Annihilation Process in PET**

H. H. Muhammed, Z. Zengin ......................................................................................... 12

**Skin Cancer Detection Using Temperature Variation Analysis**

A. M. N. Moustafa, H. H. Muhammed, M. Hassan .......................................................... 18

**Identification of Atrial Fibrillation Using Complex Network Similarity**

Y. J. Zhang, Y. Y. Wang .................................................................................................. 22

**Compensation of Finite Bandwidth Effect by Using an Optimal Filter in Photoacoustic Imaging**

C. Zhang, Y. Zhang, Y. Y. Wang .................................................................................. 27

**Study on Multi-Exponential Inversion Method for NMR Relaxation Signals with Tikhonov Regularization**


**An Integrated Analysis Method for miRNA, lncRNA and mRNA Profiles Based on Their Functional and Positional Relationships**

L. Guo, S. Yang, Y. Zhao, H. Zhang, Q. Wu, F. Chen ......................................................... 38

**Indoor Air Quality Study on Fiber Glass Industry**

A. Alhaddad, B. Al-Abdulmohsin .................................................................................. 42

**Study of Multimedia Technology in Posture Training for the Elderly**

C.-C. Chen, D.-J. Hong, S.-C. Chen, Y.-Y. Shih, Y.-L. Chen .................................................. 47

**An Integrated Analysis of Aberrantly Expressed miRNA and mRNA Profiles Unveils a Robust Regulatory Network in HepG2 Cell**

S. Yang, H. Zhang, L. Guo, Y. Zhao, F. Chen ................................................................. 53

**Information Transfer Index-A Promising Measure of the Corticomuscular Interaction**

P. Xie, P. P. Ma, X. L. Chen, X. L. Li, Y. P. Su .................................................................. 57

**Relationships between a Thiol-Disulfide System and Liposoluble Antioxidants with Cytogenetic Indices in Humans Exposed to Low Doses Radiation**

G. F. Ivanenko, E. B. Burlakova ................................................................................... 62

**Semantic Similarity over Gene Ontology for Multi-Label Protein Subcellular Localization**

S. B. Wan, M.-W. Mak, S.-Y. Kung .............................................................................. 68

**Emotional Speech Synthesis Based on Prosodic Feature Modification**

L. He, H. Huang, M. Lech .............................................................................................. 73
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Dimensional HP Foldings of Dermaseptin-J2</td>
<td>S. M. Yan, G. Wu</td>
<td>78</td>
</tr>
<tr>
<td>Modeling and Simulation of Laparoscopic Tools for Autonomously</td>
<td>S. M. Megahed, A. A. Balbola</td>
<td>85</td>
</tr>
<tr>
<td>Positioning Laparoscope in Laparoscopic Surgery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regulation of Electroacupuncture on Gastric Myoelectrical Activities:</td>
<td>P. Cheng</td>
<td>90</td>
</tr>
<tr>
<td>Monitored by Electrogastrograms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visual Composition of Complex Queries on an Integrative Genomic and</td>
<td>F. Pessina, M. Masseroli, A. Canakoglu</td>
<td>94</td>
</tr>
<tr>
<td>Proteomic Data Warehouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Using Variations of Somatosensory Evoked Potentials to Quantify</td>
<td>H. Mir, H. Al-Nashash, D. Kerr, A. All, N. Thakor</td>
<td>99</td>
</tr>
<tr>
<td>Spinal Cord Injury Level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>An Example with Obstructive Lung Diseases</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bone Graft with rhBMP-2 in Rabbits Mandibular Defect Repair</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A New Approach to the Presentation of Myocardial SPECT Images</td>
<td>N. Darvish, F. N. Öçba, H. H. Muhammed, D. Bone</td>
<td>114</td>
</tr>
<tr>
<td>An Adaptive Pulse Compression Filter for Ultrasound Contrast</td>
<td>J. Tsao, M.-H. Chen</td>
<td>118</td>
</tr>
<tr>
<td>Harmonic Imaging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanism of Cuff-Less Blood Pressure Measurement Using MMSB</td>
<td>Y. B. Li, Y. Y. Gao, N. Deng</td>
<td>123</td>
</tr>
<tr>
<td>Triangle Characters of Electrocardiogram for Distinguishing States</td>
<td>Y. J. Li, H. Yan, J. Z. Song, X. M. Yu, Z. X. Sun, H. Wei</td>
<td>126</td>
</tr>
<tr>
<td>between Exercise and Relaxation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaluating Pressure Ulcer Development in Wheelchair-Bound Population</td>
<td>F. D. Fard, S. Moghimi, R. Lotfi</td>
<td>132</td>
</tr>
<tr>
<td>Using Sitting Posture Identification</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Study on Community Health Education of Empty Nest Elderly</td>
<td>L. Gao, X. Cao, M. Zhang</td>
<td>137</td>
</tr>
<tr>
<td>The Study on First-Aid Education of Disaster for Primary School</td>
<td>M. Zhang, L. L. Guo, M. Xu</td>
<td>140</td>
</tr>
<tr>
<td>Student in China</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neuroprotective Effects of Ginkgo Biloba Extract (GbE) on Oxygen-Glucose</td>
<td>C. L. Mei, X. L. Han, J. Zhang, L. Gao, H. M. Liu</td>
<td>142</td>
</tr>
<tr>
<td>Deprivation (OGD) in PC12 Cells</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-Layer Microbubbles by Microfluidics</td>
<td>H. B. Zhang, H. S. Meng, Q. Sun, J. P. Liu, W. J. Zhang</td>
<td>146</td>
</tr>
</tbody>
</table>
Using Chou’s Pseudo Amino Acid Composition for Protein Remote Homology Detection
B. Liu, X. L. Wang…………………………………………………………………………………………………………………149

Determination of Eight Sudan Dyes in Chili Powder by UPLC-MS/MS
L. Wang, J. Zheng, Z. Zhang, T. S. Wang, B. Q. Che……………………………………………………………………………154

Study on Paths of Affect Factors on Adaption to University Life of Chinese International Students in Korea
Q. L. Lin, L. Gao…………………………………………………………………………………………………………………158

A System for Improving the Management of the Lesion and Test Images of Patients

Design of Real-Time Document Control Based on Zigbee and Surface Electromyography (sEMG)
Z. Wang, B. Wang, X. Y. Wang………………………………………………………………………………………………………166

Combination of the Kinect with Virtual Reality in Balance Training for the Elderly
W.-M. Hsieh, C.-C. Chen, S.-C. Wang, Y.-L. Chen, Y.-S. Hwang, J.-S. Lai……………………………………………………171

Cardiovascular Diseases Detecting via Pulse Analysis
J. J. Xia, S. Liao……………………………………………………………………………………………………………………176

Semi-Global Inference in Phenotype-Protein Network
S. L. Xia, G. R. Quan, Y. B. Zhao, X. H. Jia………………………………………………………………………………………181

Positive-Negative Emotional Categorization of Clothing Color Based on Brightness
X. F. Jiang, X. P. Bian……………………………………………………………………………………………………………189

Assistive Navigation Device for Visually Impaired—A Study on Reaction Time to Tactile Modality Stimuli
J. Yu, K. Moeller……………………………………………………………………………………………………………………195

Matching DSIFT Descriptors Extracted from CSLM Images
S. G. Stanciu, D. Coltuc, D. E. Tranca, G. A. Stanciu……………………………………………………………………………199

In Silico Molecular Interaction Studies of Suberoylanilide Hydroxamic Acid and Its Modified Compounds with Histones Deacetylase Class II Homo sapiens as Curative Measure towards Cervical Cancer
U. S. F. Tambunan, A. A. Parikesit, T. Prasetsit, D. Kerami………………………………………………………………………203

A Study of Safety Evaluation Method for Medical Diagnostic Table
X. Y. Zhang, J. Liu, J. Guo, L. Feng…………………………………………………………………………………………………207

Molecular Characterization, 3D Modeling of Grass Carp Interleukin-10 Receptor 1 (IL10R1)
H. Wei, S. N. Wang, L. Qin, X. Y. Wang, H. Zhou……………………………………………………………………………………..214

Molecular Cloning, Characterization and Expression Analysis of Macrophage-Colony Stimulating Factor 2 Gene from Grass Carp (Ctenopharyngodon idellus)

Cell Segmentation and Tracking in Microfluidic Platform
L. P. Ouyang, J. D. Wu, M. Zhang, F. Lin, S. Liao……………………………………………………………………………………226

Data Fusion with Optimized Block Kernels in LS-SVM for Protein Classification
L. Liao………………………………………………………………………………………………………………………………233
Heart Rate Variability Applied to Short-Term Cardiovascular Event Risk Assessment
S. Paredes, T. Rocha, P. de Carvalho, J. Henriques, R. Cabiddu, J. Morais..............................................................237

Integrative Self-Organizing Map—A Mean Pattern Model
Z. H. Yang, Z. R. Yang..............................................................................................................................................244

A New Method of Tracking of WM Crossing Fiber Bundles Based on QBI
Z. X. Wu..................................................................................................................................................................250

Human Care Theory and Influences on the Life Quality Index of Cancer Patients in Household Life
Y. L. Sun, L. Gao, Y. Dong, L. Gong.........................................................................................................................252

Structural Bioinformatics of Protein & DNA, as Early Stimulation in Basic Education of Rural and Indigenous Communities of Oaxaca
S. Lozano-Muniz, M. del Carmen Urzua-Hernandez.................................................................................................255

Sleep Apnea Detection Using Adaptive Neuro Fuzzy Inference System
C. Avci, G. Bilgin.......................................................................................................................................................259

Performance Improvement with Combining Multiple Approaches to Diagnosis of Thyroid Cancer
A. Akbaş, U. Turhal, S. Babur, C. Avci......................................................................................................................264

Feature Extraction by Multi-Scale Principal Component Analysis and Classification in Spectral Domain
S. K. Xie, A. T. Lawnizak, P. Lio*, S. Krishnan.........................................................................................................268

Characterization of Pathologic Cries of Newborns Based on Fundamental Frequency Estimation
Y. Kheddache, C. Tadj...............................................................................................................................................272

Splitting of Gaussian Models via Adapted BML Method Pertaining to Cry-Based Diagnostic System
H. F. Alaie, C. Tadj....................................................................................................................................................277

Mean Threshold and ARNN Algorithms for Identification of Eye Commands in an EEG-Controlled Wheelchair
N. T. Hai, N. Van Trung, V. Van Toi.........................................................................................................................284

Fatigue Life Analysis of Fixed Structure of Posterior Thoracolumbar Pedicle Screw
T. Yang, K. Chen, Y. G. Lv.......................................................................................................................................292

Study on the Authenticity of Identification Methods in White Spirit by Infrared Spectrometer
D. K. Bai, N. Wang, Q. H. Ying, J. H. Lin...................................................................................................................297

A Humerus Arterial Bleeding Simulation Model for Hemostasia

Effects of Different Types of Verbal Activities on Heart Rate Variability
P. Shi, Y. F. Fang, H. L. Yu......................................................................................................................................310

Bentonite Adsorption & Coagulation Treatment of Recycled Fiber Pulping Wastewater

Design of a Noninvasive Bladder Urinary Volume Monitoring System Based on Bio-Impedance
R. H. Li, J. W. Gao, H. B. Wang, Q. Jiang................................................................................................................321
Contrast Limited Adaptive Histogram Equalization for Qualitative Enhancement of Myocardial Perfusion Images
N. M. Sasi, V. K. Jayasree
326

Combining Gene-Phenotype Association Matrix with KEGG Pathways to Mine Gene Modules Using Data Set in GAW17
H. Lin, Y. Zheng, P. Zhou
332

Application of Criterion-Meeting Assessment Method in Fundamentals of Nursing
X. Y. Chen, J. H. Wang, W. J. Li
338

Biaxial Constitutive Model of Active Coronary Media Based on Microstructural Information
H. Chen, Y. L. Huo, G. S. Kassab
341

Simulation of the Thermal and Mechanical Effects of a Planar Rectangular High Intensity Ultrasound Transducer to Be Used for Destroying Atherosclerotic Plaque
C. Damianou, C. Christofi, N. Mylonas
347

Sonothromblysis in Combination with Thrombolytic Drugs in a Rabbit Model Using MRI-Guidance
C. Damianou, N. Mylonas, K. Ioannides
352

A Restricted, Adaptive Threshold Segmentation Approach for Processing High-Speed Image Sequences of the Glottis
M. Blanco, X. Chen, Y. L. Yan
357

Model-based Analysis of Ventilation Inhomogeneity in Respiratory Mechanics
C. Schranz, K. Meffray, C. Stahl, K. Möller
363
## TABLE OF CONTENTS

**Volume 5  Number 10B  October 2013**

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experience on Diagnosis and Treatment of Strangulated Intestinal Obstruction Caused by Mesentery Vein Thrombosis on Account of Portal Hypertension</td>
<td>S. B. He, X. G. Zhu</td>
<td>368</td>
</tr>
<tr>
<td>Isolation and Characterization of an L-Amino Acid Oxidase-Producing Marine Bacterium</td>
<td>Z. L. Yu, H. Qiao, J. P. Qiu, P. Y. Xu, P. Li</td>
<td>376</td>
</tr>
<tr>
<td>DNA Circuit System and Charge Transfer Mechanism</td>
<td>K. M. Xu</td>
<td>381</td>
</tr>
<tr>
<td>Using the Support Vector Machine Algorithm to Predict β-Turn Types in Proteins</td>
<td>X. B. Shi, X. Z. Hu</td>
<td>386</td>
</tr>
<tr>
<td>The Wall Shear Stress of a Pulsatile Blood Flow in a Patient Specific Stenotic Right Coronary Artery</td>
<td>B. Y. Liu</td>
<td>396</td>
</tr>
<tr>
<td>Algorithms for Chromosome Classification</td>
<td>W. Z. Yan, L. Bai</td>
<td>400</td>
</tr>
<tr>
<td>Research of Segmentation Algorithms for Overlapping Chromosomes</td>
<td>W. Z. Yan, L. Bai</td>
<td>404</td>
</tr>
<tr>
<td>Prediction Method of Protein Disulfide Bond Based on Pattern Selection</td>
<td>P. F. Sun, Y. Q. Cui, T. K. Chen, Y. Zhao</td>
<td>409</td>
</tr>
<tr>
<td>Optimal Estimation of Parameters for an HIV Model</td>
<td>D. N. Sun, Z. Y. Jiang, Z. K. Wu</td>
<td>413</td>
</tr>
<tr>
<td>Charged Amino Acid Frequencies of Proteins over Macroevolutionary Time Scale</td>
<td>Y.-J. Zhang, J.-J. Li, Y.-J. Hao, B. Chen</td>
<td>420</td>
</tr>
<tr>
<td>Control Strategy of Vibrational Capsubot in Viscoelastic Environment</td>
<td>C. Zhang, R. J. Tan, H. Liu, H. Y. Li</td>
<td>424</td>
</tr>
<tr>
<td>Relationship Research between the Chinese Medicine Constitution and Sub-Health</td>
<td>X. F. Liu, B. Xu, Z. H. Chen</td>
<td>429</td>
</tr>
<tr>
<td>A Localized-Statistic-Based Approach for Biomarker Identification of Omics Data</td>
<td>K. Zhang, H. Chen, Y. T. Li</td>
<td>433</td>
</tr>
<tr>
<td>Substitution of Deoxyinosine as Universal Base in Oligonucleotides for DNA Ligation</td>
<td>Z. L. Yu</td>
<td>440</td>
</tr>
<tr>
<td>The Solutions for the Eco-Epidemic Model with Homotopy Analysis Method</td>
<td>X. R. Chen</td>
<td>446</td>
</tr>
<tr>
<td>Monitoring the Radiation Injury of Red Blood Cells to Microwave Radiation with Different Power Density</td>
<td>J. G. Yong, P. Ruan, H. T. Shen</td>
<td>450</td>
</tr>
<tr>
<td>Oxidization Resistance in Vivo for Raspberry Flavone</td>
<td>J. X. Sun, H. X. Zhu, G. X. Dong</td>
<td>455</td>
</tr>
<tr>
<td>Restoration Study of Microorganisms in Lake Water Purification</td>
<td>F. Yang, R. Zhu</td>
<td>459</td>
</tr>
</tbody>
</table>
Stepwise Confidence Interval Method for MTD Studies with Binomial Populations
Y. Na, X. Q. Tang, H. X. Wang.................................................................463

Screening and Fermentation Characteristics of PHA Bacteria in Activated Sludge
F. Yang, R. Zhu.................................................................467

Identification of Deleterious Single Amino Acid Polymorphism Using Sequence Information Based on Feature Selection and Parameter Optimization
X. Chen, Q. K. Peng, J. Lv.................................................................472

The 3D Computer Image of the Anterior Corneal Surface
B. Wang, X. P. Huang, J. L. Ying, M. G. Shi.................................................................477

Contour Extraction of Skin Tumors Using Visual Attention and GVF-Snake Model
L. Ma, T. Z. Su.................................................................482

Cloning, Characterization and Bioinformatic Analysis of the Gene Encoding the Larval Serum Protein 2 in Diapause of the Onion Maggot, Delia Antiqua
J. J. Xu, B. Chen, Z. B. He, Y. J. Hao.................................................................487

The Phenotypic Conversion of Macrophage Detected by FACS in EAE Mice Treated with or without Fasudil

Expressogram: A Visualization of Cytogenetic Landscape in Cancer Samples Using Gene Expression Microarrays
P. K. Chen, Y. S. Hung.................................................................496

A Scalable Method for Cross-Platform Merging of SNP Array Datasets
P. K. Chen, Y. S. Hung.................................................................502

In Silicon Cloning and Bioinformatics Analysis of the Raphanus Sativus WUS Gene
M. Guang.................................................................509

Prediction of Peptides Binding to Major Histocompatibility Class II Molecules Using Machine Learning Methods
F. K. Faramarzi, M. M. Beigi, Y. Botorabi, N. Mousavi.................................................................513

Comparative Finite Element Analysis of Jaipur Foot and Polyurethane Foot
P. Sharma, S. Sharma, S. Vidhya, M. K. Mathur.................................................................518

Two Modifications of Weight Calculation of the Non-Local Means Denoising Method
M. E. Salih, X. M. Zhang, M. Y. Ding.................................................................522

Design and Implementation of Clinic Appointment Registration System
X. J. Zhan, X. F. Liu.................................................................527

Fuzzy Cluster Analysis of Alzheimer's Disease-Related Gene Sequences
J. Yang, J. R. Si, X. X. Gu, O. Y. Shl.................................................................530

A Study of Feature Stability of Contact-less Imaging Based on Palm Vein
W. Q. Yuan, W. Wu, L. T. Jing, D. Q. Kong, L. L. Wang.................................................................534

Construction of a Shuttle Vector for Heterologous Gene Expression in Escherichia coli and Microalgae Anabaena
D. H. Song, J. Li, X. X. Hu, B. Xi.................................................................540

The Research on Acupuncture Anesthesia Based on fMRI
J. J. Tong, J. Liu, Y. Y. Lv, H. D. Chen.................................................................545

On Clustering Algorithms for Biological Data
X. W. Li, F. Zhu.................................................................549

Noninvasive Blood Glucose Monitoring System Based on Distributed Multi-Sensors Information Fusion of Multi-Wavelength NIR

The Pollution Characteristic of Polycyclic Aromatic Hydrocarbons (PAHs) in Typical Sewage Irrigation Area in North of China
J. L. Li, C. X. Zhang, Y. H. Dong, X. P. Liao, B. Du, L. L. Yao.................................................................561
Automatic Assessment of Expanded Disability Status Scale (EDSS) in Multiple Sclerosis Using a Decision Tree
H. Cao, O. Agnani, L. Peyrodie, S. Boudet, C. Donzé

Using Ultrasonic Spectrometry to Estimate the Stability of a Dental Implant Phantom
H. H. Muhammed, S. V. V. N. Kothapalli

New Approach for Limited-Angle Problems in Electron Microscope Based on Compressed Sensing
M. V. Oliva, H. H. Muhammed

Design and Development of a Two Channel Telemedicine System for Rural Healthcare
M. P. Ramesh, S. Balasubramanian, V. Vijayan, G. Balasubramanian, M. Veezhinathan

Recursive Fuzzy Predictions of Future Patient Paths to Support Clinical Decision Making in ICU
A. Zeghbib, M. Mahfouf, J. J. Ross, G. H. Mills, G. Panoutsos, M. Denai, S. Suzani

The figure on the front cover is from the article published in Engineering, 2013, Vol. 5, No. 10B, pp. 38-41 by Li Guo, Sheng Yang, Yang Zhao, Hui Zhang, Qian Wu and Feng Chen.
Engineering (ENG)

ISSN Print: 1947-3931  ISSN Online: 1947-394X
http://www.scirp.org/journal/eng

Engineering is an international journal dedicated to the latest advancement of engineering. The goal of this journal is to provide a platform for engineers and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of engineering. 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 hard copy. The journal publishes original papers including but not limited to the following fields:

- Aerospace Engineering
- Agricultural Engineering
- Applied Thermal Engineering
- Aquacultural Engineering
- Architecture and Civil Engineering
- Automobile Engineering
- Bioengineering
- Biological Engineering
- Biomedical Engineering
- Biomedical Engineering
- Bionic Engineering
- Bioprocess and Biosystems Engineering
- Biotechnology and Bioengineering
- Building Services Engineering
- Business & Information Systems Engineering
- Cardiovascular Engineering and Technology
- Cellular and Molecular Bioengineering
- Chemical Engineering & Technology
- Civil Engineering
- Coal Science and Engineering
- Coastal Engineering
- Communication Engineering
- Computational Methods in Engineering
- Computer-Aided Civil and Infrastructure Engineering
- Computer-Aided Engineering
- Computer Applications in Engineering Education
- Computer Engineering
- Computer Methods in Applied Mechanics and Engineering
- Crystal Engineering
- Data and Knowledge Engineering
- Earthquake Engineering & Structural Dynamics
- Ecological Engineering
- Electrical and Electronic Engineering
- Energy and Power Engineering
- Energy Engineering
- Energy Systems Engineering
- Engine Engineering
- Engineering Analysis with Boundary Elements
- Engineering and Technology Management
- Engineering Applications of Artificial Intelligence
- Engineering Cybernetics
- Engineering Economy
- Engineering Education
- Engineering Failure Analysis
- Engineering for Sustainability
- Engineering Fracture Mechanics
- Engineering Geology and the Environment
- Engineering in Life Sciences
- Engineering in Medicine
- Engineering Manufacture
- Engineering Materials
- Engineering Mathematics
- Engineering Physics and Thermophysics
- Engineering Science in Medicine
- Engineering Structures
- Engineering Tribology
- Engineering with Computers
- Environmental Engineering
- Environmental Science & Engineering
- Fire Protection Engineering
- Food Engineering
- Food Process Engineering
- Fusion Engineering and Design
- Fuzzy Information and Engineering
- Geophysics and Engineering
- Geotechnical and Geological Engineering
- Green Energy Engineering
- Industrial Engineering
- Landscape and Ecological Engineering
- Macromolecular Materials and Engineering
- Macromolecular Reaction Engineering
- Maintainance Engineering
- Management Engineering
- Maritime Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Mechatronics Engineering
- Medical Engineering & Technology
- Metabolic Engineering
- Metallurgical Engineering
- Microelectronics Engineering
- Micromechanics and Microengineering
- Military Engineering
- Mineral Resources Engineering
- Mining Engineering
- Molecular Engineering
- Nanoengineering
- Natural Gas Science and Engineering
- NeuroEngineering and Rehabilitation
- Nuclear Engineering and Design
- Numerical Methods in Engineering
- Ocean Engineering
- Oil Engineering
- Optics and Lasers in Engineering
- Optimization and Engineering
- Particle Engineering
- Petroleum Engineering
- Petroleum Science and Engineering
- Polymer Engineering and Science
- Power Engineering
- Precision Engineering and Manufacturing
- Probabilistic Engineering Mechanics
- Process Engineering
- Production Engineering
- Protein Engineering, Design and Selection
- Public Safety Information
- Radar Engineering
- Rare Metal Materials and Engineering
- Reliability, Quality and Safety Engineering
- Renewable Energy Engineering
- Requirements Engineering
- RF and Microwave Engineering
- Rock Mechanics and Rock Engineering
- Safety Systems Engineering
- Science and Engineering Ethics
- Social and Environmental Impact of Engineering
- Software and Knowledge Engineering
- Soil Dynamics and Earthquake Engineering
- Sports Engineering
- Strain Analysis for Engineering Design
- Structural Engineering and Materials
- Surface Engineering and Applied Electrochemistry
- Systems and Control Engineering
- Systems and Software Engineering
- Systems Assurance Engineering and Management
- Test Engineering
- Tissue Engineering and Regenerative Medicine
- Transportation Engineering
- Wind Engineering and Industrial Aerodynamics

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.

Notes for Intending Authors

Submitted papers should not be previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. For more details, please access the website.

Website and E-Mail

http://www.scirp.org/journal/eng  Email: eng@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

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