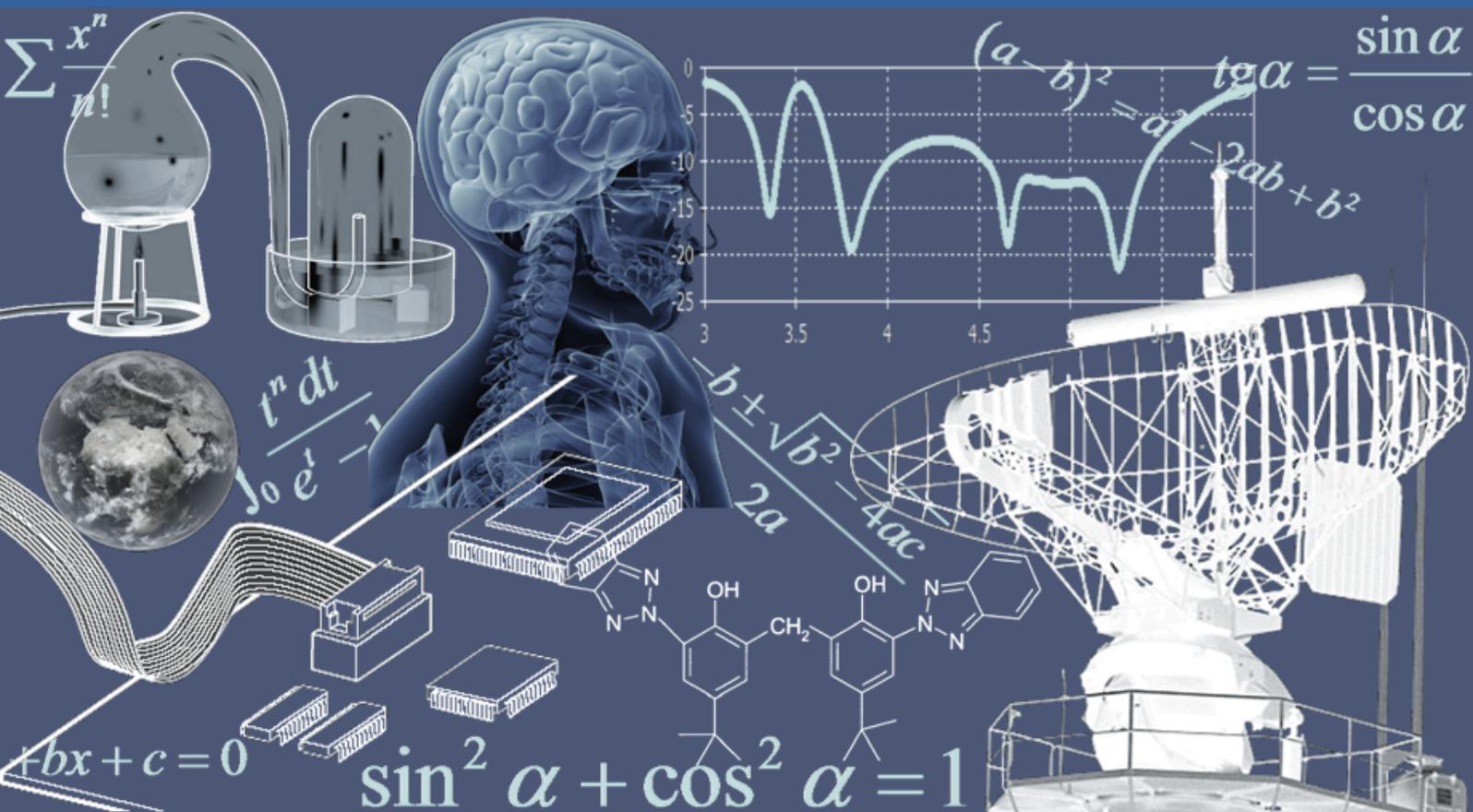


INTERNATIONAL JOURNAL OF INNOVATION AND APPLIED STUDIES

Vol. 8 N. 4 October 2014



International Peer Reviewed Monthly Journal



International Journal of Innovation and Applied Studies

International Journal of Innovation and Applied Studies (ISSN: 2028-9324) is a peer reviewed multidisciplinary international journal publishing original and high-quality articles covering a wide range of topics in engineering, science and technology. IJIAS is an open access journal that publishes papers submitted in English, French and Spanish. The journal aims to give its contribution for enhancement of research studies and be a recognized forum attracting authors and audiences from both the academic and industrial communities interested in state-of-the art research activities in innovation and applied science areas, which cover topics including (but not limited to):

Agricultural and Biological Sciences, Arts and Humanities, Biochemistry, Genetics and Molecular Biology, Business, Management and Accounting, Chemical Engineering, Chemistry, Computer Science, Decision Sciences, Dentistry, Earth and Planetary Sciences, Economics, Econometrics and Finance, Energy, Engineering, Environmental Science, Health Professions, Immunology and Microbiology, Materials Science, Mathematics, Medicine, Neuroscience, Nursing, Pharmacology, Toxicology and Pharmaceuticals, Physics and Astronomy, Psychology, Social Sciences, Veterinary.

IJIAS hopes that Researchers, Graduate students, Developers, Professionals and others would make use of this journal publication for the development of innovation and scientific research. Contributions should not have been previously published nor be currently under consideration for publication elsewhere. All research articles, review articles, short communications and technical notes are pre-reviewed by the editor, and if appropriate, sent for blind peer review.

Accepted papers are available freely with online full-text content upon receiving the final versions, and will be indexed at major academic databases.

Editorial Advisory Board

Amir Samimi, Ph.D. of Science in Chemical engineering, Process Engineer & Risk Specialist of Oil and Gas Refinery Company, Iran
Mahsa Ja'fari, Department of Chemical Engineering, Abadan Faculty of Petroleum, Petroleum University of Technology, Abadan, Iran
Alin Velea, Paul Scherrer Institute, Switzerland
Kamyar Hasanzadeh, Aalto University, Finland
Ogbonnaya N. Chidibere, University of East Anglia, United Kingdom
Oumair Naseer, University of Warwick, United Kingdom
Wei Zheng, University of Texas Health Science Center at San Antonio, USA
Hu Zhao, University of Southern California, USA
Haijian Shi, Kal Krishnan Consulting Services, Inc, USA
Syed Ainul Abideen, University of Bergen, Norway
Malika Maataoui, Mohammed V University, Morocco
Fabio De Felice, University of Cassino and Southern Lazio, Italy
Giovanni Leonardi, Mediterranea University of Reggio Calabria, Italy
Siham El Gouzi, Instituto Andaluz de Ciencias de la Tierra, Spain
Mohamed KOSSAÏ, European Business School EBS Paris, France
Mustafa Batuhan AYHAN, Marmara University, Turkey
Andrzej Klimczuk, Warsaw School of Economics, Poland
Corinthias P. M. Sianipar, Tokyo University of Science, Japan
Irfan Jamil, Sinohydro Engineering, China
Sukumar Senthilkumar, Chonbuk National University, South Korea
Bratu (Simionescu) Mihaela, Bucharest University of Economic Studies, Romania
Mirela Maria Codescu, National Institute for R&D in Electrical Engineering ICPE-CA, Romania
Milen Zamfirov, St. Kliment Ohridski Sofia University, Bulgaria
Svetoslava Saeva, Neofit Rilski South-West University, Bulgaria
Dimitris Kavroudakis, University of the Aegean, Greece
Vaitsa Giannouli, Aristotle University of Thessaloniki, Greece
Nataša Pomazalová, Mendel University in Brno, Czech Republic
Hazem M. Shaheen, Damanhour University, Egypt
Shalini Jain, Manipal University Jaipur, India
Amin Jula, National University of Malaysia, Malaysia
Mahdi Moharrampour, Islamic Azad University, Buin zahra Branch, Iran
Ricardo Rodriguez, Technological University of Ciudad Juarez, Mexico
Yuniel E. Proenza Arias, Universidad de las Ciencias Informáticas, Cuba
Elizabeth Bissell Miller, University of Missouri, Columbia
Bertin Désiré SOH FOTSING, University of Dschang, Cameroon
Antonella Petrillo, University of Cassino and Southern Lazio, Italy
Hong Zhao, The Pennsylvania State University, USA
Jianjun Chen, The University of Chicago, USA
Shaju George, Royal University for Women, Kingdom of Bahrain
Chandrasekaran Subramaniam, Kumaraguru College of Technology, India
Ilango Velchamy, New Horizon College of Engineering, India
M. Kumaresan, M.P.N.M.J. Engineering College, India
Mohammad Valipour, University of Tehran, Iran
Mohameden Sidi El Vally, King Khalid University, KSA
Mona Hedayat, Boston Children's Hospital, Harvard Medical School, USA
Suresh Kumar Alla, Advanced Medical Technologies, BD Technologies, USA
Ahmed Hashim Mohaisen Al-Yasari, Babylon University, Iraq
Aziz Ibrahim Abdulla, Tikrit University, Iraq
Khalid Mohammed Shaheen, Technical College of Mosul, Iraq
Baskaran Kasi, Kuala Lumpur Infrastructure University College, Malaysia
Nurul Fadly Habidin, Universiti Pendidikan Sultan Idris, Malaysia
Adnan Riaz, Allama Iqbal Open University, Pakistan
Syed Noor Ul Abideen, KPK Agricultural University, Pakistan
Arab Karim, M'Hammed Bougara University of Boumerdes, Algeria
Zoubir Dahmani, UMAB University of Mostaganem, Algeria
Mohsen Brahmi, Sfax University, Tunisia
Mongi Besbes, University of Carthage, Tunisia
Mai S. Mabrouk, Misr University for Science and Technology, Egypt
Olfat A Diab Kandil, Misr University for Science and Technology, Egypt

Munir Ahmed G. Timol, Veer Narmad South Gujarat University, India
Saravanan Vasudevan, Arunai Engineering College, India

Table of Contents

A Study on Historical Transformation of the Urban Integration Core of Khulna City, Bangladesh <i>Istiaque Ahmed, Khandaker Asif Mahmud, and Shaila Islam</i>	1410-1417
Valorisation de l'essence aromatique du Thym (<i>Thymus vulgaris</i> L.) en aromathérapie anti-infectieuse <i>Mohamed Nadjib Boukhatem, Mohamed Amine Ferhat, Abdelkrim Kameli, Fairouz Saidi, Houria Taibi, and Teffahi Djamel</i>	1418-1431
BER Performance of SFBC - OFDM System with Frequency Domain Equalization for the Nakagami MIMO Fading Channel <i>Nikita Chalotra, Anshul Sharma, and Divneet Singh Kapoor</i>	1432-1437
Etude de commercialisation de la filière légumes dans la ville de Niamey <i>Hassoumi Djibo</i>	1438-1446
Electronic and Optical Properties of Reactive Orange 16 azo dye <i>Hayat Anouar, Elhassan Anouar, Abderrahim El Hourch, and Kacem El Kacemi</i>	1447-1454
COMPARATIVE ANALYSIS OF APPROPRIATENESS OF DRUG INFORMATION GIVEN IN PEDIATRIC FORMULARIES AVAILABLE IN INDIA. Running title: ANALYSIS OF PEDIATRIC FORMULARIES AVAILABLE IN INDIA <i>Dr. Sneha Agarwal, Dr. Ajita Pillai, and Dr. Bharti N. Karelia</i>	1455-1461
Effet du type de matière grasse alimentaire sur quelques paramètres biochimiques, de croissance et de la semence chez le Canard de Barbarie <i>F. Djiitie Kouatcho, F. C. Nana Nsee, F. Ngoula, J. R. Kana, and A. Tequia</i>	1462-1469
Seismic Performance Assessment of Masonry Infilled Steel Frame Structures <i>Saim Raza, Muhammad Khubaib Ilyas Khan, Furqan Munir, Waleed Anwar, and Saad Hassan</i>	1470-1484
Effect of Variation of Number of Bays on the Seismic Vulnerability of Masonry Infilled Steel and Reinforced Concrete (RC) frame Structures <i>Muhammad Khubaib Ilyas Khan, Saim Raza, and Furqan Munir</i>	1485-1495
Identification des Tiques (Acarina-Ixodidae) Parasites des Bovins au Sud-Kivu, République Démocratique Du Congo <i>Alphonse Bisusa Muhimuzi, B.E. Ombeni, Bisusa Willy Chishibanji, and M.B. Masunga</i>	1496-1503
Virtual Machine Consolidation Challenges: A Review <i>Amany Abdelsamea, Elsayed E. Hemayed, Hesham Eldeeb, and Hanan Elazhary</i>	1504-1516
La dégradation environnementale et les stratégies de survie dans les campagnes du Nord-Cameroun <i>Anselme Wakponou and Richard Atimmiraye Nyéladé</i>	1517-1525
Performance externe des industries de transformation au Maroc et normes qualité <i>Rabah Kissami and El Mokhtar Zbair</i>	1526-1532
Screening of <i>Taxillus Tomentosus</i> Ethanolic Extract for Nootropic and Antistress Activity in Rats <i>S. Silpa, Jamal Uddin, and V. L. Jaya Sekhar</i>	1533-1544
Refusal on Qiyas and Implications for Development Contemporary Islamic Law (Study on the Ibn Hazm Critics to Qiyas) <i>A. A. Miftah</i>	1545-1553
Factors Affecting Competitiveness of Kenyan Cut Flower in the International Market: A Case Study of Cut-Flower Firms in Nakuru County <i>Jackline K. Moriasi, Josephine Rotich, Benard Odero Asienyo, and Evelyn Mongina Okao</i>	1554-1565
Étude in silico des effets inhibitrices des Oleuropein, Kaempferol, et Quercetin sur le Protéine VP30 de Ebola Virus <i>Yassine Kasmî</i>	1566-1573
Study on Cytotoxic Activity of <i>Clerodendrum inerme</i> and <i>Caesalpinia crista</i> by Brine Shrimp Lethality Bioassay <i>Md. Jalal Uddin, Md. Shamim Akhter, Kazi Mohammed Didarul Islam, and Md. Morsaline Billah</i>	1574-1580

Filter design based on rectangular waveguides <i>Ahmed Faize, El Mehdi Stouti, Taoufik Ragani, and Salma Gaou</i>	1581-1588
Pictorial Reading Strategy and the Learning of Proverbs and Riddles among Primary School Pupils <i>Cecilia Omobola Odejobi, H.O. Ajayi, and C.F. Olokunlade</i>	1589-1593
Control Strategy for Safe Descent of Power Assisted Wheelchair on Declining Road Using Regenerative Braking <i>Mrs. Neha D. Garade, Prof. Mrs. Trupti Wagh, and Dr. Mrs. P. Malathi</i>	1594-1603
Cycle de vie de l'entreprise et veille stratégique <i>Mohamed Jaouadi</i>	1604-1611
Nutritional and Microbial Analysis of Melon (<i>Citrullus colocynthis</i> Linn) Cake and its Components - A Traditional Snack in South - South Nigeria <i>Rose U. B. Ebanga, Comfort Aloysius Etok, and Uwem Okon Edet</i>	1612-1617
Quelques dimensions d'incohérence de la politique commerciale du Maroc avec ses politiques sectorielles internes <i>Rachid Hasnaoui and Cheklekbire Malainine</i>	1618-1635
The Response of Al- Quran against to the Previous Scriptures <i>DR. H. Hadri Hasan</i>	1636-1644
Sentiment Analysis Using Fuzzy Logic <i>Kashyap Bhansali, Amit Doshi, and Lakshmi Kurup</i>	1645-1652
Towards a socioconstructivist and collaborative Learning Design approach to modeling pedagogical contents used in e-learning: Implementation and experimentation <i>Abderrahim El Mhouti, Azeddine Nasseh, and Mohamed Erradi</i>	1653-1668
Dynamics of a Nonlinear Automatic Door Closing Torsional Mechanism <i>Galal A. Hassaan</i>	1669-1678
L'implication des populations riveraines condition essentielle à la gestion durable de la Réserve de Biosphère de la Comoé (RBC) <i>TKM. Gauze, J. Biemi, and K. Soro</i>	1679-1695
Impact de la Mecreka dans la vie socio-économique et culturelle des agents du Centre de Recherche en Sciences Naturelles (CRSN/Lwiro), RD Congo <i>Félix Mugisho Maroyi, Théos Badose Musimwa, Willy Chishibanji Bisusa, and Buzenga Matembera</i>	1696-1705
Euclidean distance and HAC methods coupled to FT-MIR spectroscopy as chemometric tool for the authentication of the virgin olive oil <i>Ihham Houalqi, Mohamed Gouskir, Mohammed Boutalline, Abdelouahed Ait Ider, Rachid Bouhdadi, Amine Moubarik, Belaid Bouikhalene, Hassan Chaair, and Mohamed Mbarki</i>	1706-1713
Spatial resource allocation: multi task, multi competences case <i>Mustapha Ouardouz and Abdes Samed Bernoussi</i>	1714-1722
Elaboration d'un logiciel de simulation du nombre de plateaux théoriques dans une colonne de distillation continue <i>Abdelkader Hadj Seyd, Touhami Lanez, and Boufatah Babaia</i>	1723-1734
Risk of water erosion in coastal watersheds north of Tetuan (Internal Rif, northern Morocco): Evidences from GIS-based spatial approach <i>Noaman Akalai, Rachid Hlila, Mohamed El Imran, and Chakib Darraz</i>	1735-1751
Contribution de la géophysique à l'étude structurale et à l'identification des aquifères de fissures dans le Département de Dabakala (Centre-Nord Côte d'Ivoire) <i>Kouassi Eric Germain Kouakou, Bi V. H. N'guessan, Boko Célestin Sombo, Marc Youan Ta, Derving Baka, and Konan Emmanuel Kouadio</i>	1752-1769
Design of A Compact, Low-Profile, Elliptical Patch UWB Antenna and Performance Analysis in Vicinity of Human Layered Tissue Model for Wireless Body Area Network (WBAN) Applications <i>Md. Ashif Islam Oni and M. Tanseer Ali</i>	1770-1781
Morphometric Characterization and Molecular Identification of Different Cattle in Some Selected Regions of Bangladesh	1771-1797

<i>Md. Ashrafuzzaman Sapon, Md. Shamim Hossain, and Dr. T.N. Nahar</i>	
Epidémiologie de la schistosomiase et des géohelminthiases dans l'Arrondissement de Kékem (Ouest-Cameroun)	1782-1790
<i>Esther Nana Dankoni and L.A. Tchuem Tchuente</i>	
Synthesis of some new substituted azetidiny and thiazolidinonyl quinazolon-4(3H)-ones as potential non-steroidal anti-inflammatory and analgesic agents	1798-1813
<i>Deepak Kumar, Roshan Lal, and Sarita Rani</i>	
The Relationship between food and cancer	1814-1830
<i>Malika Ghouari</i>	
Heavy Metal Contamination Profile of Four Selected Seafoods Harvested on Itu River in the Niger Delta Region of Nigeria	1831-1835
<i>Uwem Okon Edet and Bassey Okon Edet</i>	
Synthesis and Optimization of PVA based paper lamination adhesives	1836-1841
<i>Ruhul Amin, Rashedul Alam Adnan, and Md. Rubaiyat Islam</i>	
Interaction and association between genetic mutations and clinical risk factors in developing ischemic stroke in Moroccan population	1842-1849
<i>Khalid Balar, Ilham Slassi, Bouchra El Moutawakil, Mariame El Messal, Mustapha El Alaoui Faris, Mohamed Yahyaoui, Saadia Aidi, Ahmed Adlouni, Rachida Habbal, and Sellama Nadifi</i>	
Behavioral explanation of beta variation: French market case	1850-1859
<i>Mouna Boujelbene Abbes, Amen Aissi, and Abderrazak Ellouze</i>	
Forms of Intimate Partner Violence among Women in the Informal Sector in Nakuru Municipality, Kenya	1860-1867
<i>Lynette A. Onyando, Dolphine A. Odera-Wanga, and Rose A. Mwonya</i>	