



Editors:

Prof. Nikos Mastorakis, Technical University of Sofia, BULGARIA

Prof. Valeri Mladenov, Technical University of Sofia, BULGARIA

Prof. Azami Zaharim, Universiti Kebangsaan, MALAYSIA

Prof. Cornelia Aida Bulucea, University of Craiova, ROMANIA

Recent Advances & Applications of Computer Engineering

Proceedings of the 9th WSEAS International Conference on
Applications of Computer Engineering (ACE '10)

Penang, Malaysia, March 23-25, 2010

Supported by Universiti Kebangsaan Malaysia



Electrical and Computer Engineering Series
A Series of Reference Books and Textbooks

ISBN: 978-960-474-166-3
ISSN: 1790-5117

Published by WSEAS Press
www.wseas.org

Recent Advances and Applications of Computer Engineering

Enter



RECENT ADVANCES and APPLICATIONS of COMPUTER ENGINEERING

**Proceedings of the 9th WSEAS International Conference on
APPLICATIONS of COMPUTER ENGINEERING (ACE '10)**

**Penang, Malaysia, March 23-25, 2010
Supported by Universiti Kebangsaan Malaysia**

Electrical and Computer Engineering Series
A Series of Reference Books and Textbooks

Published by WSEAS Press
www.wseas.org

ISSN: 1790-5117
ISBN: 978-960-474-166-3

RECENT ADVANCES and APPLICATIONS of COMPUTER ENGINEERING

**Proceedings of the 9th WSEAS International Conference on
APPLICATIONS of COMPUTER ENGINEERING (ACE '10)**

**Penang, Malaysia, March 23-25, 2010
Supported by Universiti Kebangsaan Malaysia**

Electrical and Computer Engineering Series
A Series of Reference Books and Textbooks

Published by WSEAS Press
www.wseas.org

Copyright © 2010, by WSEAS Press

All the copyright of the present book belongs to the World Scientific and Engineering Academy and Society Press. 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, or otherwise, without the prior written permission of the Editor of World Scientific and Engineering Academy and Society Press.

All papers of the present volume were peer reviewed by two independent reviewers. Acceptance was granted when both reviewers' recommendations were positive.
See also: <http://www.worldses.org/review/index.html>

ISSN: 1790-5117
ISBN: 978-960-474-166-3



World Scientific and Engineering Academy and Society

RECENT ADVANCES and APPLICATIONS of COMPUTER ENGINEERING

**Proceedings of the 9th WSEAS International Conference on
APPLICATIONS of COMPUTER ENGINEERING (ACE '10)**

**Penang, Malaysia, March 23-25, 2010
Supported by Universiti Kebangsaan Malaysia**

Editors:

Prof. Nikos Mastorakis, Technical University of Sofia, BULGARIA

Prof. Valeri Mladenov, Technical University of Sofia, BULGARIA

Prof. Azami Zaharim, Universiti Kebangsaan, MALAYSIA

Prof. Cornelia Aida Bulucea, University of Craiova, ROMANIA

International Program Committee Members:

John Tsitsiklis, USA

Irwin W. Sandberg, USA

Lotfi A. Zadeh, USA

Viola Vogel, SWITZERLAND

Dimitris Bertsekas, USA

Lena Valavani, USA

Leonid G. Kazovsky, USA

Leon O. Chua, USA

Brian A. Barsky, USA

K. R. Rao, USA

Bimal K. Bose, USA

Joseph Sifakis, FRANCE

Paul E. Dimotakis, USA

Sidney Burrus, USA

Biswa Nath Datta, USA

George Giannakis, USA

Nikolaos Bourbakis, USA

Nikos E. Mastorakis, BULGARIA

Yorgo Istefanopoulos, TURKEY

George E Andrews, USA

Stuart S. Antman, USA

Soren H. Morup, DENMARK

Robert A. Kosinski, POLAND

Ivan L'Heureux, CANADA

Alexander G. Ramm, USA

Steven Collicott, USA

Wilfried B. Kraetzig, GERMANY

Panos Pardalos, USA

Ronald Yager, USA

Stamatios Kartalopoulos, USA

Kleanthis Psarris, USA

Borje Forssell, NORWAY

Metin Demiralp, TURKEY

Constantin Udriste, ROMANIA

Amauri Caballero, USA

Geir Oien, NORWAY

George Vachtsevanos, USA

Spyros Tragoudas, USA

Olga Martin, ROMANIA

Demetrios Kazakos, USA

Gamal Elnagar, USA

Periklis Papadopoulos, USA

Preface

This year the 9th WSEAS International Conference on APPLICATIONS of COMPUTER ENGINEERING (ACE '10) was held in Penang, Malaysia, March 23-25, 2010. The conference remains faithful to its original idea of providing a platform to discuss hardware systems, software engineering, computational intelligence, communications, computer networks, computer applications in biomedicine, nuclear physics, environmental science and development, geoscience, plasma and fusion, astrophysics, optics, naval and marine engineering, acoustics and music, remote sensing, chemistry and chemical engineering etc. with participants from all over the world, both from academia and from industry.

Its success is reflected in the papers received, with participants coming from several countries, allowing a real multinational multicultural exchange of experiences and ideas.

The accepted papers of this conference are published in this Book that will be indexed by ISI. Please, check it: www.worldses.org/indexes as well as in the CD-ROM Proceedings. They will be also available in the E-Library of the WSEAS. The best papers will be also promoted in many Journals for further evaluation.

A Conference such as this can only succeed as a team effort, so the Editors want to thank the International Scientific Committee and the Reviewers for their excellent work in reviewing the papers as well as their invaluable input and advice.

The Editors

Table of Contents

Plenary Lecture 1: Intelligent Human Interaction based on Mental Cloning <i>Hamido Fujita</i>	13
Plenary Lecture 2: A Fully Automated Water Management System for Large Rice Paddies <i>Teruji Sekozawa</i>	15
Towards Development of Agent Class Diagrams as an Integrative Approach for AUML Extension <i>Ghulam Ali, Noor Ahmed Shaikh, Abdul Wahid Shaikh</i>	17
Ontology Instance Matching by Considering Semantic Link Cloud <i>Md. Hanif Seddiqui, Masaki Aono</i>	22
Methodology for the Implementation of the Safe Logistic Chain Process <i>Eduardo Mario Dias, Caio Fernando Fontana</i>	28
A Knowledge-Based System for Knowledge Management Evaluation <i>Javier Andrade, Juan Ares, Rafael Garcia, Santiago Rodriguez, Sonia Suarez</i>	35
Tracking Student Movement using Active RFID <i>Herdawatie Abdul Kadir, Mohd Helmy Abd Wahab, Zarina Tukiran, Ariffin Abdul Mutalib</i>	41
Colour Image Segmentation Using the Relative Values of RGB <i>Chiunhsiun Lin, Ching-Hung Su</i>	46
Comparative Study of Extended Sequential Differential Evolutions <i>Kiyoharu Tagawa, Hiroshige Takada</i>	52
Superior Tricorns and Multicorns <i>Mamta Rani</i>	58
Printed Arabic Text Database (PATDB) for Research and Benchmarking <i>Amin G. Al-Hashim, Sabri A. Mahmoud</i>	62
High-Speed Computation of the Kleene Star in Max-Plus Algebra Using a Cell Broadband Engine <i>Hiroyuki Goto, Takahiro Ichige</i>	69
A Fast Computation of the State Vector in a Class of DES System <i>Hiroyuki Goto, Shotaro Yoshida</i>	75
Securing Enterprise Wide Authorization Management through Delegation <i>Sharil Tumin, Sylvia Encheva</i>	81
W/CMS: Open-ended Web-based Contract Management System <i>Sharil Tumin, Sylvia Encheva</i>	87

A Computer Optimization of a Set of EWMA Quality Control Charts <i>Eugenio Epprecht, Francisco Aparisi, Marco A. De Luna, Andres Carrion</i>	93
Verification and Validation of Fuzzy Knowledge in Planning Systems <i>Vasile Mazilescu, Costel Nistor</i>	99
Optimization of the New DS-u Control Chart. An Application of Genetic Algorithms <i>Elena Perez, Andres Carrion, Jose Jabaloyes, Francisco Aparisi</i>	105
A Sub-Optimal Log-Domain Decoding Algorithm for Non-Binary LDPC Codes <i>Chirag Dadlani, Ranjan Bose</i>	110
Flow and Heat Transfer Characteristics on a Moving Flat Plate in a Parallel Stream with Prescribed Surface Heat Flux <i>Norfifah Bachok, Anuar Ishak</i>	115
Variable Neighborhood Search Based Approach for Solving Multilevel Lot-Sizing Problems <i>Yiyong Xiao, Ikou Kaku</i>	119
Proposal of a Method to Navigate Interview-driven Software Requirements Elicitation Work <i>Takatoshi Yamanaka, Hajime Noguchi, Shimon Yato, Seiichi Komiya</i>	125
Optimal Team Formation for Software Development Exercise -Evaluating a Method for Team Formation Based on the Type of Project Manager- <i>Kiyomi Shirakawa, Shiori Yamamoto, Ryota Chiba, Hiroaki Hashiura, Seiichi Komiya</i>	132
Virtual Investigation of Plume Behavior from a Heated Eccentric Annulus Cylinder <i>C. S. Nor Azwadi, S. Syahrullail</i>	138
Computer Based System for Sources Automated Calibration <i>Vladislav Slavov, Tasho Tashev</i>	144
Influence of Twin Hulls Geometry on Aerodynamic Characteristics of WIG Catamaran During Ground Effect <i>Adi Maimun, Saeed Jamei, Agoes Priyanto, Nor Azwadi</i>	147
Using Cooperative Particle Swarm for Optimizing the Engineering Design Problems <i>Ching-Long Su</i>	153
Development of Multimedia Messaging Service (MMS)-Based Examination Results System <i>Mohd Hilmi Hasan, Nazleeni Samiha Haron, Nur Syafiqah Syazwani Md Yazid</i>	157
Mesoscale Simulation of Natural Convection in an Inclined Square Cavity <i>C. S. Nor Azwadi, N. I. Nik Izual</i>	164
Simplified Mesoscale Porous Media Model for Natural Convective Heat Transfer in a Square Geometry <i>C. S. Nor Azwadi, M. A. M. Irwan</i>	170
Application of LPV Type Force Model in Vehicle Crash Dynamics <i>Istvana A. Harmati, Andras Rovid, Peter Varlaki</i>	174
Development of Fuzzy Manifold and Fuzzy Nearest Distance for Pose Estimation of Degraded Face Images <i>Benyamin Kusumoputro, Brahmastro Kresnaraman, Lina</i>	180

Digital Holographic Security System based on Multiple Biometrics <i>Aloka Sinha, Nirmala Saini</i>	186
Fuzzy Clustering-Based Approach for Outlier Detection <i>Moh'd Belal Al-Zoubi, Al-Dahoud Ali, Abdelfatah A. Yahya</i>	192
Modeling the Flow Regulating Systems for Petroleum Products Main Pipe Transport <i>Andrei Magyari, Marin Silviu Nan, Florin Dumitru Popescu, Nicolae Buda</i>	198
Web3D – A Tool for Modern Education in Biology <i>Tomaz Amon</i>	204
Dedicated Graphical User Interface System for the Visually Impaired Users in Learning Al-Quran <i>F. Razaly, N. H. Ajizan, S. Mad Saad, M. S. Yaacob, M. Z. Md Zain, M. Hussein, M. Y. Abdullah, A. R. Musa</i>	210
Thermosolutal Marangoni Mixed Convection Boundary Layer <i>Norihan Md. Arifin, Fadzilah Md. Ali, Roslinda Nazar, Ioan Pop</i>	214
Proposed Database System to Integrate Patient Information and Research Data for Maxillofacial and Craniofacial Domain <i>Fariza Hanum Nasaruddin, Maizatul Akmar Ismail, Ehab Nabil Mohammed</i>	219
Application of PIC Microcontroller for Controlling Piezoelectric Braille Cell <i>S. Mad Saad, F. Razaly, M. Z. Md Zain, M. Hussein, M. S. Yaacob, A. R. Musa, M. Y. Abdullah</i>	225
Implementation of a Tele-Operating High Level Communication System to Control a Colony of Robots <i>Al-Dahoud Ali, Mohamed Fezari, Attoui Hamza</i>	230
Awareness in Networked Collaborative Environment: A Comparative Study on the Usage of Digital Elements <i>Zainura Idrus, Siti Z. Z. Abidin, R. Hashim, N. Omar</i>	236
Structural Alignment of Biomolecules by Text Modeling Techniques <i>Jafar Razmara, Safaai B. Deris, Rosli Md Illias</i>	242
DIGMAP-Detector: An Intelligent Computerized Tool to Detect and Predict Digital Map Pattern <i>Siti Z. Z. Abidin, M. N. Fikri Jamaluddin, M. Zamani Z. Abiden</i>	248
Iris Boundary Detection using a Novel Algorithm <i>Mahboubeh Shamsi, Puteh Bt Saad, Subariah Bt Ibrahim, Abdolreza Rasouli</i>	254
MHD Viscous Flow and Heat Transfer due to a Permeable Shrinking Sheet with Prescribed Surface Heat Flux <i>Fadzilah Md Ali, Roslinda Nazar, Norihan Md Arifin</i>	260
A New Multi Party Aggregation Algorithm Using Infinite Product Series <i>Abdolreza Rasouli, Mohd Aizaini Maarooof, Mahboubeh Shamsi</i>	264
Robust Individuals Control Chart for Shifts in Process Mean and Variance <i>Ng Kooi Huat, Habshah Midi</i>	270

A Tool for Diagnosing the Quality of Java Program and a Method for its Effective Utilization in Education	276
<i>Hiroaki Hashiura, Saeko Matsuura, Seiichi Komiya</i>	
Human Interaction based Reasoning using Ontology Alignment	283
<i>Hamido Fujita, Jun Hakura, Masaki Kurematsu</i>	
Adaptive E-Learning Tools for Numbering Systems	293
<i>Ahmed A. Saleh, Hazem M. El-Bakry, Taghreed T. Asfour, Nikos Mastorakis</i>	
Multi-Platform User Interface Derivation from One Task Model	299
<i>Eman Saleh, Amr Kamel, Aly Fahmy</i>	
Performance Evaluation of Smart Glove Applied to Experimental Rig to Control Human Hand Tremor for Parkinson Disease	306
<i>Suhail Kazi, Azizan, Zarhamdy Md Zain, Musa Mailah</i>	
Method for Processes Parallelization on Second Level	316
<i>Ognian Nakov, Plamenka Borovska, Nadejda Angelova, Filip Stoichkov</i>	
A Hooking Method Running on MHAP Environment	320
<i>Eung-Nam Ko</i>	
Transient Characteristics of C3H8/O2 Turbulent Mixing in a Hypersonic Pulse Detonation Engine	325
<i>Khalid M. Saqr, Ahmed Faiz, Hassan Kassem, Mohsin Sies, Mazlan A. Wahid</i>	
Configuring Thin Client Solution for Orang Asli Community in Malaysia	331
<i>Abdul Rahman Bin Ahlan, Murni Bt Mahmud, Yusri Bin Arshad</i>	
Development of Ad hoc Network for Emergency Communication Service in Disaster Areas	337
<i>Ho Gyun Park, Bong Keol Shin, Hyun Kyu Park, Jong Won Park, Chang Ho Yoon, Seung Woo Rho, Chang Won Lee, Ju Wook Jang, Hae Sun Jung, Yong Woo Lee</i>	
Arabic Letters Compression using New Algorithm of Trapezoid Method	342
<i>Ali Abdrhman Ukasha</i>	
Authors Index	348

Plenary Lecture 1

Intelligent Human Interaction based on Mental Cloning



Professor Hamido Fujita

Director of Intelligent Software Laboratory

Iwate Prefectural University (IPU)

Iwate, Japan

E-mail: HFujita-799@acm.org

Abstract: This plenary Lecture; is to high light on the importance of human nature collective behavior on intelligent interaction between man and machine. We have investigated on different disciplinary, (philosophical, physiological, cultural, physiognomy, and technical) views that collectively reflect the behavioral reasoning of human emotional feature interaction with machines (i.e., computer), this is essential to have mutual effective engagement between human and machine based on observing and examining the user from different views reflecting the emotional behavior of the user. The system will be sensitive to emotion related attributes that through integrated conceptual views, representing these attributes, we can be able grasp the emotional transition state of user engagement with the system. Emotion recognition is one of the most important components of emotional intelligence and it has a direct effect on our ability to make optimal decisions (along with the ability to utilize emotions to make decisions), any attempt by computer scientists to model human interaction should, at least in part, be founded on an accurate identification of affective states. It is suggested that by ignoring the emotional component intrinsic to human decision-making, we have been missing valuable information that could potentially lead to inadequate interactive models.

These concepts are the basis of what we called mental cloning. A concept introduced by me through a project. This project is to establish a system as a virtual world to re-create a Miyzawa Kenji virtual world (famous Japanese writer dead on 1930) based on cognitive model of his personality and inner thinking). However, the Kenji system is currently be modified and adapted into a health care system, that this plenary lecture is trying to introduce.

The objective is to have users (i.e., patients) who are attending a hospital (or they can do it from their home using computer link), to do all transaction of 1st level diagnosis before going to the actual health examination. In this level, based on mental cloning of medical doctors in that hospital, and based on their previous case studies, and experiences to examine patients the system would practice this diagnosis on patient as if the actual doctor are doing. All doctor cases studies have been collected and categorized into the system according to levels and type. The solutions or induced scenarios by the virtual doctors to the patients have been abstracted to distinguishing its central part (primary) from surrounding (secondary) parts. It first finds the solution of the central part, and then refines the solution by considering the secondary related parts. Medical doctors' knowledge has been classified according to categories. The system is been divided into our related parts.

The 1st part is to create a hologram (or virtual 3D face on a display) that produce emotional character of a certain human defined personality, we use in this experiment actual employed medical doctor, the system will produce generated animated face emotionally talk and act as the medical doctor themselves, and who are currently working in the hospital. These animated characters reflecting the main interface the patient would look through and through it the virtual medical doctor would establish the best engagement to extract the current status of the subject patient. This part is working with part 4 of the system. Together part 1 and part 4 represent the mental cloning of the medical doctor.

The 2nd part reflects the interaction of user (patient) emotional engagement states, by observing the user mental transition states (i.e., trace), that been recorded and analyzed by Active Appearance model system through a camera. A high resolution camera would collect images from the user (along with voice as in part 3). These frame streams of video are analyzed though what is called as active appearance model, so the system would collect user mental engagement with the doctor and accordingly, can estimate the user appearance state.

The 3rd part is related to the voice reasoning, to produce with emotion a voice reflecting the context in hand, and to recognize it as it heard from the observed user. Also, this part would produce the output voice of the virtual medical doctor to speak emotionally the generated (in part 4) scenarios.

Through Part 2 and Part 3 information is collected by the system (virtual doctor), to create a cognitive model of the subject patient. Such that to create the problem space that the system would use to navigate to the best match and accordingly the best scenario to use for diagnosis. When a user talk, the face emotional states, along with emotional states and the words are recognized by the system as information through it the system would find the best scenarios and corresponding cognitive model to use for interacting with the subject user.

The 4th part is to produce the synthesis of the scenario that make the user and system been actively engaged. This would be based on creating a cognitive interaction between the human subject and the system based on transition analysis.

This lecture is to bring into the audience the needs for such way of metaphoric thinking to bring user emotional status view to be part of the design views that to be integrated with other parts of the system.

Brief Biography of the Speaker:

Dr. Hamido Fujita, is a professor at Iwate Prefectural University(IPU), Iwate, Japan.

He is the director of Intelligent Software Laboratory.

He took his Ph.D from Tohoku University, Sendai, Japan on 1988.

He worked at Tohoku University as visiting Professor on late eighties, and then joined University of Tokyo, RCAST as Associate Professor, on 1990_1993, and then he moved to Canada, as visiting Professor at the University of Montreal, IRO, till 1997.

He then moved to Japan to become a committee member to establish Iwate Prefectural University on 1997. Then after he joined Iwate Prefectural University (IPU), Faculty of Software and Information Science, as professor and head of Information System Division. He is directing at IPU two laboratories, Intelligent Software Laboratory and Cognitive Systems Laboratory. He was a committee of Establishing Graduate School of Software Science, of IPU.

He has directed and led many project sponsored by the Ministry of Science, Education and Culture of Japan, and others from International sponsors and Japanese company sponsors project on new software methodologies.

Also, he is the founder of SOMET organization.

He published many books and journal papers, and participated as speaker in many conferences worldwide. Also, he gave invited talks at many universities in EU, and North America. He has supervised Ph.D students jointly with University of Laval, University Technology, Sydney(UTS), He is also Professor at the University of Laval, Quebec, Canada supervising Graduate Studies students, he was a visiting Professor CRI at the University of Paris_1, Sorbonne, 2003~2004, working with Prof. Colette Rolland. He worked as opponent for Stockholm University, Sweden co-supervised students with Prof. Love Ekenberg He also worked with UTS, CCS group led by Prof. Ernest Edmonds and co-supervised Ph.D students. He published books in IOS press. He guest edited several special issues on International Journal of Knowledge based systems, Elsevier. Also, he has editor role in this journal since 2008. Also, he a guest edited Transaction of Internet Research,

He is currently heading a cognitive Miyzaza Kenji project in Intelligent HCI, and a project related to Mental Cloning as an intelligent user interface between human user and computers, supported by MEXT (Ministry of Education, Culture, Sports, Science and Technology), and SCOPE project on Virtual Doctor Systems, supported by Ministry of Internal Affairs, and Communications of Japan.

Plenary Lecture 2

A Fully Automated Water Management System for Large Rice Paddies



Professor Teruji Sekozawa

Department of Information Systems Creation
Kanagawa University, Japan
E-mail: sekozawa@ie.kanagawa-u.ac.jp

Abstract: An automatic water management system for large-scale paddy fields has been developed. The purposes of that are to supply the paddy fields with water or drain water from that automatically, to decrease water consumption, and to have a good harvest. To accomplish the above purpose, developed system has five functions, (1) prediction of paddy growth stages, (2) water level control corresponding to growth stages, (3) estimation of mean water level, (4) prediction of water consumption, and (5) optimal water allocation for minimizing of damage. In this paper, we especially give a detail description of functions (3). For (3), we construct estimation model based on Kalman-filter theory, and give an estimation result.

Brief Biography of the Speaker:

Teruji Sekozawa is a professor of Information Systems Creation at Kanagawa University, Japan. His area of expertise is the social information system, automotive control system, information service system. He authored or co-authored over 100 scientific papers published in reviewed journals or presented at conferences. He has over 150 patents related to system engineering. He had been researching the system development of the new social infrastructure in Hitachi Ltd. until 2004, and works in present Kanagawa University, Japan since 2005. He experienced the Chairman of Industrial system in SICE(Society of Instrument and Control Engineers) and the director of Tokyo branch in IEEJ(Institute of Electrical Engineers of Japan) as Scientific Activities. He is a senior member of IEEJ.

Authors Index

Abd Wahab, M. H.	41	Hashim, R.	236	Nakov, O.	316
Abdullah, M. Y.	210, 225	Hashiura, H.	132, 276	Nan, M. S.	198
Abiden, M. Z. Z.	248	Huat, N. K.	270	Nasaruddin, F. H.	219
Abidin, S. Z. Z.	236, 248	Hussein, M.	210, 225	Nazar, R.	214, 260
Ajizan, N. H.	210	Ibrahim, S. B.	254	Nistor, C.	99
Al-Hashim, A. G.	62	Ichige, T.	69	Noguchi, H.	125
Ali, A.-D.	192, 230	Idrus, Z.	236	Nor Azwadi, C. S.	138, 164, 170
Ali, G.	17	Illias, R. M.	242	Omar, N.	236
Al-Zoubi, M. B.	192	Irwan, M. A. M.	170	Park, H. G.	337
Amon, T.	204	Ishak, A.	115	Park, H. K.	337
Andrade, J.	35	Ismail, M. A.	219	Park, J. W.	337
Angelova, N.	316	Izual, N. I. N.	164	Perez, E.	105
Aono, M.	22	Jabaloyes, J.	105	Pop, I.	214
Aparisi, F.	93, 105	Jamaluddin, M. N. F.	248	Popescu, F. D.	198
Ares, J.	35	Jamei, S.	147	Priyanto, A.	147
Arifin, N. M.	214, 260	Jang, J. W.	337	Rani, M.	58
Arshad, Y. B.	331	Jung, H. S.	337	Rasouli, A.	254, 264
Asfour, T. T.	293	Kadir, H. A.	41	Razaly, F.	210, 225
Azizan	306	Kaku, I.	119	Razmara, J.	242
Azwadi, N.	147	Kamel, A.	299	Rho, S. W.	337
Bachok, N.	115	Kassem, H.	325	Rodriguez, S.	35
Bin Ahlan, A. R.	331	Kazi, S.	306	Rovid, A.	174
Borovska, P.	316	Ko, E.-N.	320	Saad, P. B.	254
Bose, R.	110	Komiya, S.	125, 132, 276	Saad, S. M.	210, 225
Buda, N.	198	Kresnaraman, B.	180	Saini, N.	186
Carrion, A.	93, 105	Kurematsu, M.	283	Saleh, A. A.	293
Chiba, R.	132	Kusumoputro, B.	180	Saleh, E.	299
Dadlani, C.	110	Lee, C. W.	337	Saqr, K. M.	325
De Luna, M. A.	93	Lee, Y. W.	337	Seddiqui, M. H.	22
Deris, S. B.	242	Lin, C.	46	Shaikh, A. W.	17
Dias, E. M.	28	Lina	180	Shaikh, N. A.	17
El-Bakry, H. M.	293	Maarroof, M. A.	264	Shamsi, M.	254, 264
Encheva, S.	81, 87	Magyari, A.	198	Shin, B. K.	337
Epprecht, E.	93	Mahmoud, S. A.	62	Shirakawa, K.	132
Fahmy, A.	299	Mahmud, M. B.	331	Sies, M.	325
Faiz, A.	325	Mailah, M.	306	Sinha, A.	186
Fezari, M.	230	Maimun, A.	147	Slavov, V.	144
Fontana, C. F.	28	Mastorakis, N.	293	Stoichkov, F.	316
Fujita, H.	283	Matsuura, S.	276	Su, C.-H.	46
Garcia, R.	35	Mazilescu, V.	99	Su, C.-L.	153
Goto, H.	69, 75	Md Zain, M. Z.	210, 225	Suarez, S.	35
Hakura, J.	283	Md. Ali, F.	214, 260	Syahrullail, S.	138
Hamza, A.	230	Midi, H.	270	Tagawa, K.	52
Harmati, I. A.	174	Mohammed, E. N.	219	Takada, H.	52
Haron, N. S.	157	Musa, A. R.	210, 225	Tashev, T.	144
Hasan, M. H.	157	Mutalib, A. A.	41	Tukiran, Z.	41

Tumin, S.	81, 87	Yaacob, M. S.	210, 225	Yazid, N. S. S. M.	157
Ukasha, A. A.	342	Yahya, A. A.	192	Yoon, C. H.	337
Varlaki, P.	174	Yamamoto, S.	132	Yoshida, S.	75
Wahid, M. A.	325	Yamanaka, T.	125	Zain, Z. M.	306
Xiao, Y.	119	Yato, S.	125		