



ICCI 2022

5TH INTERNATIONAL CONFERENCE ON
COMPUTING AND INFORMATICS
CAIRO, EGYPT, 9-10 MARCH



5th International Conference on Computing and Informatics (ICCI'2022)

9 – 10 March, 2022

Helnan Landmark Hotel, New Cairo, Egypt

Organized By

Faculty of Computers and Information Technology

Future University in Egypt

Under the Auspices of

Mr. Khaled Azazy
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Vice-Dean, Faculty of Computers and
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ICCI 2022 Conference Program

***** All times are given in terms of Cairo, Egypt time zone (UTC/GMT +2 hour) *****

Day 1 – Wednesday, March 9, 2022

9:00 – 10:00	Registration	Location
10:00 – 10:15	Opening Session Prof. Dr. Ebada Sarhan – Honorary Chair Prof. Dr. Mohamed Roushdy – Conference Chair	Hall A
10:15 – 10:45	Keynote Speech Chair: Prof. Dr. Mohamed Roushdy Co-Chair: Prof. Dr. Aliaa Youssef Speaker1: Prof. Dr. Dana Simian Director of Research Center of Informatics and Information Technology Faculty of Sciences, Lucian Blaga University of Sibiu, Romania. Approaches for Optimizing the Models Selection in Machine Learning	Hall A
10:45 – 11:15	Industrial Talk: Eng. Medhat Mahmoud - Chief of Digital Transformation, Huawei Northern Africa. The Era of Artificial Intelligence	Hall A
10:15 – 11:30	Coffee break	
11:30 – 14:00	Session D1-1-A On-site Presentation Artificial Intelligence and Data Visualization Chair: Prof. Dr. Reda El-Kherebi Co-Chair: Dr. Osama Hegazy	Hall A
	Session D1-1-B On-site Presentations Artificial Intelligence and Data Visualization Chair: Prof. Dr. Osama Imam Co-Chair: Prof. Dr. Mohamed Abdelmegid	Hall B
	Session D1-1-C Online Presentations Artificial Intelligence and Data Visualization Chair: Prof. Dr. Neveen Ghali Co-Chair: Dr. Heba Mohsen	Hall C
14:00 – 14:30	Coffee break	
14:30 – 17:00	Session D1-2-A On-site Presentation Data Science and Knowledge Discovery Chair: Prof. Dr. Yehia Helmi Co-Chair: Prof. Dr. Amira Idrees	Hall A
	Session D1-2-B On-site Presentations Image Processing and Pattern Recognition Chair: Prof. Dr. Khaled Hosni Co-Chair: Dr. Khaled Wassef	Hall B
	Session D1-2-C Online Presentations Data Science & Image Processing Chair: Prof. Dr. Atef Galwash Co-Chair: Prof. Dr. Howida Shedeed	Hall C

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Day 2 – Thursday, March 10, 2022

9:00 – 10:15	Keynote Speeches Chair: Prof. Dr. Awad Khalil Co-Chair: Prof. Dr. Amira Idrees Speaker 2: Prof. Dr. Tarek El-Ghazawi, IEEE Fellow Professor & Director of Institute for Massively Parallel Applications and Computing Technology (IMPACT), George Washington University Rebooting Computing- The Search for Post-Moore’s Law Computing Systems	Hall A
10:15- 10:45	Speaker 3: Prof. Dr. N.Ch.Sriman Narayana Iyengar Ph.D (Computer Science & Engineering), Ph.D (Applied Mathematics) Professor Information Technology Dean (Library &Academic Research), Sreenidhi Institute of Science and Technology (SNIST), India Securing Cloud Computing Environment against Distributed Denial of Service Attacks	
10:45 – 11:30	Coffee Break	
11:30 – 14:00	Session D2-1-A On-site Presentation Computer Networks & Cybersecurity Chair: Prof. Dr. Mohamed Hashem Co-Chair: Dr. Mohamed Hussein	Hall A
	Session D2-1-B On-site Presentations SW Engineering & E-Commerce / Huawei Lecture: Digital Transformation Chair: Prof. Dr. Ramadan Moawad Co-Chair: Dr. Fahd Kamal	Hall B
	Session D2-1-C Online Presentations Computer Networks & SW Eng. Chair: Prof. Dr. Fatma Emarah Co-Chair: Dr. Amira Sayed	Hall C
14:00 – 14:30	Coffee break	
14:30 – 17:00	Session D2-2-A On-site Presentation IoT & Bioinformatics Chair: Prof. Dr. El-Sayed El-Horbaty Co-Chair: Dr. Mahmoud Sami	Hall A
	Session D2-2-B Online Presentations Cloud Computing Chair: Prof. Dr. Mostafa Aref Co-Chair: Dr. Ahmed Salama	Hall B
	Session D2-2-C Online Presentations Robotics & Embedded Systems Chair: Prof. Dr. Amira Idrees Co-Chair: Dr. Amal Mehana	Hall C
17:00 – 17:30	Closing	

Sessions Schedule

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Day 1 – Wednesday, March 9, 2022

Session D1-1-A: On-site

Chair: Prof. Dr. Reda El-Kherebi **Co-Chair:** Dr. Osama Hegazy
Time: 11:30 – 14:00 **Location:** Hall A

Time	Paper	Remarks
11:30 – 11:50	Ensemble Federated Learning for Non-IID COVID-19 Detection Khaled M Elshabrawy, Mayar M Alfares, Mohammed Abdel-Megeed Salem (German University in Cairo).	
11:50 – 12:10	Why Bee colony is the most suitable swarm algorithm with multi-query optimization? Sayed Abdel Gaber, Manal Abdel-Fattah, Safaa Anwer Nasr (Helwan University).	
12:10 – 12:30	Predicting Banking Customer Churn based on Artificial Neural Network Amany Zaky (Helwan University), Shimaa Ouf (Helwan University), Mohamed Roushdy(Future University in Egypt).	
12:30 – 12:50	Emo-TTS: Parallel Transformer-based Text-to-Speech Model with Emotional Awareness Mohamed Osman (Ahrum Canadian University).	
13:10 – 13:30	Artificial Intelligence Techniques for Classification of Eye Tumors: A Survey Esraa Ahmed Allam, Marco Alfonse, Abdel-Badeeh Salem (Faculty of Computer and Information Sciences – Ain Shams University).	
13:30 – 13:50	A Survey on Generative Adversarial Networks based Models for Many-to-many Non-parallel Voice Conversion Yasmin Alaa, Marco Alfonse, Mostafa M. Aref (Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt)	

Day 1 – Wednesday, March 9, 2022

Session: D1-1-B (On-site)

Chair: Prof. Dr. Osama Imam Co-Chair: Prof. Dr. Mohamed Abdelmegid
Time: 11:30 – 14:00 Location: Hall B

Time	Paper	Remarks
11:30 – 11:50	Automated intelligent online healthcare ontology Integration Noura ELMaghawry Ibrahim(BUE), Samy Ghoniem (BUE), Karim Emara(Ain Shams University), Eman Shaaban(Ain Shams University)	
11:50- 12:10	Comparative study of machine learning techniques based on TQWT for EMG signal classification Nahla Abdel Maboud (Ain Shams University), Abdel-Badeeh Salem (Ain Shams University), Silvia Parusheva (University of Economics Varna), Marco Alfonse(Ain Shams University),	
12:10 – 12:30	A deep learning framework for predicting the student’s performance in the virtual learning environment Soha Ahmed, Yehia Helmy, Shimaa Ouf (Helwan University).	
12:30 – 12:50	An English Islamic Articles Dataset (EIAD) for developing an IslamBot Question Answering Chatbot Moataz Mohammed, Salsabil A. El-Regaily, Mostafa M. Aref (Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt).	
12:50 – 13:10	Recent Applied Techniques for Open Dialog Generation Systems Farida Youness, Mohamed Madkour, Ayman Elshenawy Elsefy (AL-Azhar University)	
13:10 – 13:30	Shallow And Deep Learning In Footstep Recognition: A Survey Ayman A.M. Iskandar (Future University in Egypt), Marco Alfonse (Ain Shams University), Mohamed Roushdy (Future University in Egypt), El-Sayed M.El-Horbaty (Ain Shams University)	

Day 1 – Wednesday, March 9, 2022

Session: D1-1-C: (Online)

Chair: Prof. Dr. Neveen Ghali

Co-Chair: Dr. Heba Mohsen

Time: 11:30 – 14:00

Location: Hall C

Time	Paper	Remarks
11:30 – 11:50	Recognition of Emotion in Speech-related Audio Files with LSTM-Transformer Felicia Andayani , Bee Theng Lau, Mark Kit Tsun Tee, Caslon Chua (Swinburne University of Technology), Malaysia	
11:50 – 12:10	A Survey on Recommender System for Arabic Content Nada AlShareef, Amani Al-Ajlan (King Saud University), Saudi Arabia	
12:10 – 12:30	Forecasting Vaccination Growth for COVID-19 using Machine Learning Aimee P Hartono , Callista R Luhur, Nunung Nurul Qomariyah (Bina Nusantara University), Indonesia	
12:30 – 12:50	Using Machine Learning Techniques to Explore the Possibilities of Reducing the Spread of Corona Virus and its New Variants Hossam Meshref (Taif University), Saudi Arabia	

Day 1 – Wednesday, March 9, 2022

Session D1-2-A: On-site

Chair: Prof. Dr. Yehia Helmi **Co-Chair:** Prof. Dr. Amira Idrees
Time: 14:30 – 17:00 **Location:** Hall A

Time	Paper	Remarks
14:30 – 14:50	Smart Potato Disorders Diagnostic System Based on Fuzzy K-Nearest Neighbor Zeina Rayan , Sara Samir (Dept. of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University), Doaa Abdelfattah (Dept. of Computer Science, Faculty of Computers and Artificial Intelligence, Cairo University), Abdel-Badeeh Salem (Dept. of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University)	
14:50 – 15:10	An Optimized Arabic Sarcasm Detection in Tweets using Artificial Neural Networks Ahmed Omar (Minia University), Aboul Ella Hassanien (Cairo University).	
15:10 – 15:30	An Evaluation of Time Series-Based Modeling and Forecasting of Infectious Diseases Progression using Statistical Versus Compartmental Methods Noha G. Saad (Nile University), Samy Ghoneimy (BUE), Hossam Faheem (Faculty of Computer and Information Sciences - Ain Shams University), Noha Seada (Faculty of Computer and Information Sciences - Ain Shams University).	
15:30 – 15:50	An Improved Wild Horse Optimizer for Traveling Salesman Problem Gehad Zahran (Canadian International College (CIC), Aboul Ella Hassanien (Cairo University)	
15:50 – 16:10	An Advisory Student Achievement Model Based on Data Mining Techniques Rana Wael (Helwan University), Abdel Nasser H. Zaied (Misr International University (MIU)), Ehab Moh. Hamza (Helwan University)	

Day 1 – Wednesday, March 9, 2022

Session: D1-2-B (On-site)

Chair: Prof. Dr. Khaled Hosni Co-Chair: Dr. Khaled Wassef
 Time: 14:30 – 17:00 Location: Hall B

Time	Paper	Remarks
14:30 – 14:50	Image Cryptography: A Systematic Review Mahmoud Magdy Mohamed (Future University in Egypt),, Neveen I. Ghali (Future University in Egypt), Said Ghoniemy (Ain Shams University), Khalid Hosny (Zagazig University)	
14:50 – 15:10	Iris Recognition System Techniques: A Literature Survey and Comparative Study Rahma Hossam Hossam (Future University in Egypt), Heba Mohsen (Future University in Egypt), Yasser M. Abd El-Latif (Ain shams University, Cairo, Egypt)	
15:10 – 15:30	Content-based Medical Image Retrieval based on Deep Features Expansion Metwally Rashad, Ibrahim Afifi , Mohamed Abdelfatah (Benha University).	
15:30 – 16:50	An enhanced Skin-tone Block-map Image Steganography using Integer Wavelet Transforms Mennatallah Sadek (Ain Shams University), Amal S Khalifa (Purdue University Fort Wayne), Doaa Khafga (Princess Nourah bint Abdulrahman University)	
16:50 – 17:10	Camera-based Human Counting for COVID-19 Capacity Restriction Hazem Hossam , Milad Ghantous, Mohammed Abdel-Megeed Salem (German University in Cairo).	

Day 1 – Wednesday, March 9, 2022

Session: D1-2-C: (Online)

Chair: Prof. Dr. Atef Galwash

Co-Chair: Prof. Dr. Howida Shedeed

Time: 14:30 – 17:00

Location: Hall C

Time	Paper	Remarks
14:30 – 14:50	Image Processing-Based Vehicle Class Identification in Mixed Traffic Mohan Kumar Somavarapu, Subhadip Biswas, Joy Pal (National Institute of Technology Hamirpur), India	
14:50 – 15:10	Evaluating the Parameters Influencing Agricultural Productivity due to the Limitations of Smartphone-related Knowledge Among Farmers Prodipto Bishnu Angon (Bangladesh Agricultural University), Md. Mahbubur Rahman Khan (Hajee Mohammad Danesh Science & Technology University), Md. Shafiul Islam, Rucksana Parvin Suma, Ummya Habiba (Bangladesh Agricultural University), Imrus Salehin (Daffodil International University), Bangladesh	
15:10 – 15:30	The Impact of Twitter Sentiment Analysis on Bitcoin Price during COVID-19 with XGBoost Eric Edgari, Jocelyn Thiojaya, Nunung Nurul Qomariyah (Bina Nusantara University), Indonesia.	
15:30 – 15:50	Forecasting COVID-19 Total Daily Cases in Indonesia Using LSTM Networks Clarissa A Indriyani, Rachel Wijaya, Nunung Nurul Qomariyah (Bina Nusantara University), Indonesia	
15:50 – 16:10	Infrared Image Analysis for Human Face Recognition Muhammad Eka Setio Aji (Universitas Sultan Ageng Tirtayasa), Rocky Alfan (Universitas Sultan Ageng Tirtayasa), Esa Prakasa (National Research and Innovation Agency (BRIN)), Indonesia	

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Day 2 – Thursday, March 10, 2022

Session D2-1-A: On-site

Chair: Prof. Dr. Mohamed Hashem Co-Chair: Dr. Mohamed Hussein
Time: 11:30 – 14:00 Location: Hall A

Time	Paper	Remarks
11:30 – 11:50	Dominant Meaning Technique for dedicating Social Criminal Twitter Posts Yasser Ibrahim AbdElmonem ,Mohammed Abdel Razek , Nasser ElSherbeny (Azhar University)	
11:50 – 12:10	Deep Learning Toward Preventing Web Attacks Abdelrahman S. Hussainy, Mahmoud A. Khalifa, Abdallah Elsayed , Amr Hussien, Mohammed Abdel Razek (Future University in Egypt)	
12:10 – 12:30	An Artificial Intelligence Approach for Deploying Zero Trust Architecture (ZTA) Eslam S. Hosney (Nile University), Islam Tharwat Abdel Halim (Nile University), Ahmed Hassan (Ain Shams University)	
12:30 – 12:50	Dependable CNC Controller using Raspberry pi and Cloud Computing Nashwa Mosaad Osman, Khaled A. Elshafey, Ahmed N. El- Mahdy (Al-Azhar university)	

Day 2 – Thursday, March 10, 2022**Session: D2-1-B (On-site)**

Chair: Prof. Dr. Ramadan Moawad **Co-Chair:** Dr. Fahd Kamal
Time: 11:30 – 14:00 **Location:** Hall B

Time	Paper	Remarks
11:30 – 11:50	An Enhanced Parallel Automation Testing Architecture for Test Case Execution Sarah M.Nagy, Huda A.Maghawry, Nagwa L.Badr (Ain Shams University)	
11:50 – 12:10	A Framework for Enhancing the Supply of Scientific Research Projects Using Blockchain Mohamed Elbially (Ministry of higher education and Scientific research), Dr. Mohamed Abd Elsalam (Faculty of Commerce & Business Administration), Prof. Dr. Samir Abo El-Fotouh (Faculty of Commerce, Mansoura Faculty of Commerce, Mansoura)	
12:10 – 12:30	FAML: Fog Descriptor Language for Fog Service Development and Deployments Ahmed H. Ibrahim (Assiut University), Zaki Fayed, Hossam Faheem (Assiut University)	
12:30 – 12:50	New Graphical Ultimate Processor for Mapping Relational Database to Resource Description Framework Ahmed Mahmoud Daoud, Khalid Hosny, Ehab Mohamed (Zagazig University)	
12:50 – 13:10	Satellite Orbit Prediction Based on Recurrent Neural Network using Two Line Elements Alaa Osama Awad Mahmoud (Faculty of science Helwan university)*; Mourad R. Mouhamed (Helwan University, Faculty of Science); ashraf darwish (Faculty of Science); Sara Abdelghafar (Computer Science School, Canadian International College(CIC)); Aboul Ella Hassanien (Cairo University)	

Day 2 – Thursday, March 10, 2022

Session: D2-1-C: (Online)

Chair: Prof. Dr. Fatma Emarah **Co-Chair:** Dr. Amira Sayed
Time: 11:30 – 14:00 **Location:** Hall C

Time	Paper	Remarks
11:30 – 11:50	A FUTURISTIC APPRAISAL OF MALWARE DETECTION BY EMPLOYING DATA MINING Fahad Saud Mira (University of Bedfordshire), UK	
11:50 – 12:10	A New Approach of Cryptography for Data Encryption and Decryption Khawja Imran Masud, Md Rakib Hasan, MD. Mozammel Hoque, Upel Dev Nath , Md. Obaidur Rahman (Dhaka University of Engineering & Technology, Gazipur), Bangladesh	
12:10 – 12:30	Sliding Time Analysis in Traffic Segmentation for Botnet Activity Detection Dandy Pramana Hostiadi, Tohari Ahmad (Institut Teknologi Sepuluh Nopember), Indonesia	
12:30 – 12:50	Prototyping Distributed Botnet Detection System in Computer Networks Muhammad Aidiel Rachman Putra, Tohari Ahmad, Royyana Muslim Ijtihadie, Dandy Pramana Hostiadi (Institut Teknologi Sepuluh Nopember), Indonesia	
12:50 – 13:10	A predictive schedule based energy efficient MAC protocol for wireless sensor networks Md. Nasir Uddin, Dr. Md Obaidur Rahman, Sumaya Kazary, (Dhaka University of Engineering & Technology, Gazipur), Bangladesh	
13:10 – 13:30	Gamification Tool Design for Reducing Requirements Ambiguity during Elicitation Hafsa Shareef Dar (University of Gujrat Gujrat), Salma Imtiaz (International Islamic University Islamabad); Muhammad Ikramullah Lali (University of Education Lahore Jauharabad Campus), Pakistan	
13:30- 13:50	Highly Available Internet Border Systems Survey and Reference Model Jason A. Minton (University of Arkansas at Little Rock), Dan Laughlin (Brooks Sports), USA	

Day 2 – Thursday, March 10, 2022

Session D2-2-A: On-site

Chair: Prof. Dr. El-Sayed El-Horbaty **Co-Chair:** Dr. Mahmoud Sami
Time: 14:30 – 17:00 **Location:** Hall A

Time	Paper	Remarks
14:30 – 14:50	A PLC-SCADA Pipeline for Managing Oil Refineries Ossama Rashad, Omneya Attallah , Iman Morsi (Arab Academy for Science, Technology and Maritime Transport)	
14:50 – 15:10	A Reliable Secure Architecture for Remote Wireless Controlling of Vehicle's Internal Systems based on Internet of Vehicles using RF and Wi-Fi Ahmed I Ahmed (Nile University), Samy Hamed Sharf (Nile University), Rafaat Salama (Fares PCB for Electronic Solutions), Mostafa Mekky (Fares PCB for Electronic Solutions), Mohamed Salama (Fares PCB for Electronic Solutions), Wael Badawy (Badr University in Cairo)	
15:10 – 15:30	Review of Personalized Cancer Treatment with Machine Learning Hanan Ahmed , Safwat Hamad, Howida Shedeed, Ashraf Saad (Ain Shams University)	
15:30 – 15:50	Survey of Blockchain Methodologies in The Healthcare Industry Ashraf Mohey Eldin , Dr. Eman Hossny, Prof. Khaled Wassif Prof. Fatma A. Omara (Cairo University)	
15:50 – 16:10	Deep learning techniques for the fully automated detection and segmentation of brain MRI Ahmed Tamer (Ahrum Candian University), Ahmed Youssef (Ahrum Candian University), Mohammed Ibrahim(Ahrum Candian University), Mostafa Abd-El Aziz (Ahrum Candian University), Youssef Hesham (Ahrum Candian University), Zeyad Mohammed (Ahrum Candian University), M.M.Eissa, Soha Ahmed (Suez University), Ghada Khoriba (Ahrum Candian University)	
16:10 – 16:30	A Hybrid Metaheuristic Approach for Automatic Clustering of Breast Cancer Yasmin A. Badr (Future University in Egypt), Amany Abou el Naga (Future University in Egypt)	

Day 2 – Thursday, March 10, 2022**Session: D2-2-B (Online)**

Chair: Prof. Dr. Mostafa Aref **Co-Chair:** Dr. Ahmed Salama
Time: 14:30 – 17:00 **Location:** Hall B

Time	Paper	Remarks
14:30 – 14:50	NEKO: Proposal of the first super-agile methodology to improve work efficiency Juan P Marroquin Gavelan , Perla Peralta, Ciro Rodriguez (Universidad Nacional Mayor de San Marcos), Peru	
14:50 – 15:10	Modeling and Simulation of Online Examinations Procedures in COVID-19 Pandemic Using Arena Software: A Case Study S Vasanthapriyan , KGL Chathumini, DPD Dayananda, MACSS Fernando (Sabaragamuwa University of Sri Lanka), Sri Lanka	
15:10 – 15:30	Detecting Chronic Kidney Disease(CKD) at the Initial Stage: A Novel Hybrid Feature-selection Method and Robust Data Preparation Pipeline for Different ML Techniques Md. Taufiqul Haque Khan Tusar , Md. Touhidul Islam, Foyjul Islam Raju (City University), Bangladesh	
15:30 – 15:50	Cloud computing security based on OWASP Abdulazeez Riyadh (Imam Ja'afar Al-Sadiq University, Baghdad), Zinah N. Nuimi (University of Mayasan), Iraq	
15:50 – 16:10	Cloudlet Selection Strategy According to the Types of Applications in Cloud Networks Rashid Alakbarov (Institute of Information Technolog), Azerbaijan	
16:10 – 16:30	Group of models of error flow sources for discrete q-ary channels Nadezhda S Mogilevskaya (Southern Federal University), Russia	

Day 2 – Thursday, March 10, 2022**Session: D2-2-C: (Online)****Chair: Prof. Dr. Amira Idrees****Co-Chair: Dr. Amal Mehana****Time: 14:30 – 17:00****Location: Hall C**

Time	Paper	Remarks
14:30 – 14:50	Real-Time Fixed-Point Hardware Accelerator of Convolutional Neural Network on FPGA Based Bahadır Özkılbaç , İbrahim Yücel Özbek, Tevhit Karacalı (Atatürk University), Turkey	
14:50 – 15:10	Brain Oscillatory Representations of Vibrotactile Parameters: An EEG Study Xinrong WANG , Xinyue FANG, Xinyi ZHENG, Xuemei DENG, Yong LI, Mei WANG (Sichuan University Chengdu, China)	
15:10 – 15:30	UVC SANITIZING SMART KIT Marwa Tharwat, Maram Eida Alsofiani , Sereen Bahdad, Heba Alebbie, Ghaida Alyousfi (King Abdulaziz University), Saudi Arabia	
15:30 – 15:50	Eye-Controlled Wheelchair Ghada Shalabi , Marwa Tharwat, Leena Saleh, Nora Badawoud, Raghad Alfalati (King Abdulaziz University), Saudi Arabia	
15:50 – 16:10	Multi-criteria selection of industrial robots: modelling users' preferences in combined AHP-Entropy-TOPSIS approach Iliyan I Petrov (Bulgarian Academy of Sciences, Institute of information and communication technologies), Bulgaria	
16:10 – 16:30	Epileptic Seizure Detection using EEG Signals Irfan M Khan , Mohd Maaz Khan, Omar Farooq (Aligarh Muslim University), India	