

Ninth IEEE International Conference  
on Intelligent Computing and Information Systems  
Cairo, Egypt December 8-9, 2019

# icicis 2019



## Scheduled Program (General Map)

<b>Sunday, December 8, 2019</b>	
<b>8:30-9:30</b>	<b>Registration</b>
<b>9:30-10:30</b>	<b>Opening Ceremony</b>
<b>10:30-11:00</b>	<b>Coffee Break</b>
<b>11:00-12:00</b>	<b>Keynote Speech I (KS I) – Imperia Hall Prof. Philip S. Yu</b>
<b>12:00-1:00</b>	<b>Keynote Speech II (KS II) - Imperia Hall Prof. Mykola Pechenizkiy</b>
<b>1:00-1:30</b>	<b>Mr. Yousry Atlm - Imperia Hall HUAWEI Speech</b>
<b>1:30-2:30</b>	<b>Lunch</b>
<b>2:30-3:30</b>	<b>Keynote Speech III (KS III) - Imperia Hall Prof. Toon Calders</b>
<b>3:30-4:00</b>	<b>Coffee Break</b>
<b>4:00-5:45</b>	<b>Conference Sessions(CS): Parallel Sessions in Imperia, Louvre 7 and Louvre 8 Halls</b>

**KS: Keynote Speech**

**CS: Conference Session**

<b>Monday, December 9, 2019</b>	
<b>8:30-9:30</b>	<b>Registration</b>
<b>9:30-10:30</b>	<b>Keynote Speech IV (KS IV) - Imperia Hall Prof. Guo, Yi-Ke</b>
<b>10:30-11:30</b>	<b>Keynote Speech V (KS V) - Imperia Hall Prof. Tarek Ghazawi</b>
<b>11:30-12:00</b>	<b>Coffee Break</b>
<b>12:00-1:00</b>	<b>Keynote Speech VI (KS VI) - Imperia Hall Prof. Sarma Cakula</b>
<b>1:00-2:00</b>	<b>Lunch</b>
<b>2:00-3:30</b>	<b>Conference Sessions: Parallel Sessions</b>
<b>3:30-4:00</b>	<b>Coffee Break</b>
<b>4:00-5:30</b>	<b>Conference Sessions: Parallel Sessions in Imperia, Louvre 7 and Louvre 8 Halls</b>
<b>5:30-6:00</b>	<b>Closing Session</b>

**Ninth IEEE International Conference on Intelligent Computing and Information Systems**

**ICICIS 2019**

**Conference Website:** <http://icicis.asu.edu.eg>

**Conference Venue:** Triumph Hotel, New Cairo, Cairo, Egypt

## ICICIS 2019 Session's Chairs

**Sunday, December 8, 2019**

<b>Time</b>	<b>Session</b>	<b>Chairs</b>
11:00-1:30	<i>KS I Imperia Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Ahmed Hamad, President of British University in Egypt.</li> <li>- Prof. Tarek Gharib, Ain Shams University.</li> <li>- Prof. Dr. Mostaf Aref, Ain Shams University.</li> </ul>
2:30-3:30	<i>KS II Imperia Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Mohammed F. Tolba, Ain Shams University.</li> <li>- Prof. Dr. Omar Karam, British University in Egypt.</li> <li>- Prof. Dr. Hala Moushier, Ain Shams University.</li> </ul>
4:00-5:45	<i>CS 1 Imperia Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Philip S. Yu, University of Illinois at Chicago, USA.</li> <li>- Prof. Dr. Gamal Darwish, Cairo University.</li> <li>- Prof. Dr. Mohammed Hashem, Ain Shams University.</li> </ul>
	<i>CS 2 Louvre 7 Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Sarma Cakula, Faculty of Engineering, Vidzeme University of Applied Sciences, Latvia.</li> <li>- Prof. Dr. Mohammed Roushdy, Ain Shams University.</li> <li>- Prof. Dr. Ayman Bahaa, Dean of the MIU University.</li> </ul>
	<i>CS 3 Louvre 8 Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Tarek Ghazawi, George Washington University, USA.</li> <li>- Prof. Dr. Mohamed E. Khalifa, Egyptian Chinese University.</li> <li>- Prof. Dr. Eman Shaban, Ain Shams University.</li> <li>- Dr. Karim Emara, Ain Shams University.</li> </ul>

## Monday, December 9, 2019

Time	Session	Chairs
9:30-11:30	KS III <i>Imperia Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Ebada Sarhan, President of the Future University.</li> <li>- Prof. Dr. Abdel-Badeeh Sallem , Ain Shams University.</li> <li>- Prof. Dr. Said Ghoniem, Ain Shams University.</li> </ul>
12:00-1:00	KS VI <i>Imperia Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Atef Galoash, Rapporteur of the Promotion Committee for Computer and Information Sciences.</li> <li>- Prof. Dr. Zaki Taha, Ain Shams University.</li> <li>- Dr. Sherien Mousa, Ain Shams University.</li> </ul>
2:00-3:30	CS 4 <i>Imperia Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Guo, Yi-Ke, Imperial College London, UK.</li> <li>- Prof. Dr. Aliaa Youssef, Dean of the faculty of computer and information, ASST, Smart Village.</li> <li>- Dr. Tamer Mostafa, Ain Shams University.</li> </ul>
	CS 6 <i>Louvre 7 Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Ali El-Naem, Ain Shams University.</li> <li>- Prof. Dr. Iman Sarwit, Cairo University.</li> <li>- Dr. Walaa Khaled, Ain Shams University.</li> <li>- Dr. Mohammed A. Marey, Ain Shams University.</li> </ul>
	CS 8 <i>Louvre 8 Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Ibrahim El Henawy, Zaggazig University.</li> <li>- Prof. Dr. El-Sayed M. El-Horbaty, Ain Shams University.</li> <li>- Prof. Dr. Rania El-Gohary, Ain Shams University.</li> <li>- Dr. Yasmine Afify, Ain Shams University.</li> </ul>
4:00-5:30	CS 5 <i>Imperia Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Saied Fadel, Ain Shams University.</li> <li>- Prof. Dr. Hwoida Sheeded, Ain Shams University.</li> <li>- Dr. Safaa Amin, Ain Shams University.</li> </ul>
	CS 7 <i>Louvre 7 Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Taha El-Areef, Ain Shams University</li> <li>- Dr. Sherine Rady, Ain Shams University.</li> <li>- Dr. Wedad Hussien, Ain Shams University.</li> <li>- Dr. Nivin Atef, Ain Shams University.</li> </ul>
	CS 9 <i>Louvre 8 Hall</i>	<ul style="list-style-type: none"> <li>- Prof. Dr. Hassan Ramadan, Ain Shams University.</li> <li>- Prof. Dr. Khaled Bahnasy, Al-Obour High Institute for Management &amp; Informatics.</li> <li>- Dr. Mahmoud Monir, Ain Shams University.</li> </ul>

## Scheduled Program (Detailed Map)

**Sunday, December 8, 2019 - Imperia Hall**

<b>8:30-9:30</b>	<b>Registration</b>
<b>9:30-10:30</b>	<b>Opening Ceremony</b>
<b>10:30-11:00</b>	<b>Coffee Break</b>
<b>11:00-12:00</b>	<b>Keynote Speech I</b> <b>Session Chairs: Prof. Ahmed Hamad, Prof. Tarek Gharib, Prof. Mostafa Aref</b>
	<i>Speech 1: Broad Learning on Big Data via Fusion of Heterogeneous Information</i> Prof. Philip S. Yu, Department of Computer Science, Wexler Chair in Information Technology University of Illinois at Chicago, USA
<b>12:00-1:00</b>	<i>Speech 2: The Cross-Roads of Algorithmic Fairness, Accountability and Transparency in Predictive Analytics</i> Prof. Mykola Pechenizkiy, Professor of Data Mining at the Department of Mathematics and Computer Science, TU Eindhoven University, Netherlands.
<b>1:00-1:30</b>	<i>HUAWEI Speech</i> Mr. Yousry Atlm, CEO Huawei Egypt ICT Talent Bank
<b>1:30-2:30</b>	<b>Lunch</b>
<b>2:30-3:30</b>	<b>Keynote Speech II</b> <b>Session Chairs: Prof. Mohamed F. Tolba, Prof. Omar Karm, Prof. Hala Moushier</b>
	<i>Speech 3: Machine-Learning Discrimination: Bias in, Bias out.</i> Prof. Toon Calders, Professor of Data Mining, University of Antwerp, Belgium
<b>3:30-4:00</b>	<b>Coffee Break</b>

## ICICIS 2019 Session's Chairs

**Sunday, December 8, 2019 - Imperia Hall**

<b>CS 1 - Machine Learning, Pattern Recognition, signal &amp; Image Processing, Graphics and Data Visualization I</b> <b>Session Chairs: Prof. Philip S. Yu, Prof. Gamal Darwish, Prof. Mohamed Hashem</b>		
<b>4:00-5:45</b>	ICICIS2019-90	<b>Examining Hyperparameters of Neural Networks Trained Using Local Search</b> Ahmed Aly; Gianluca Guadagni; Joanne Dugan
	ICICIS2019-140	<b>Road Surface Quality Detection using Smartphone Sensors: Egyptian Roads Case Study</b> Aya EL-kady ; Karim Emara; Mohamed Hamdy; Eman Shaaban
	ICICIS2019-137	<b>Comparative Study of Moments Shape Descriptors and propose a new hybrid Descriptor technique</b> Shaymaa Hamandi ; Abdul Monem Rahma ; Rehab Hassan
	ICICIS2019-103	<b>An Improved Integrated Intensity-Hue-Saturation with Stationary Wavelet Transform Multi-sensor Image Fusion Approach</b> abdelrahman yehia ; Hassan Elhifnawy ; mohamed safy
	ICICIS2019-131	<b>Image Retrieval Based on Self-Organizing Feature Map and Multilayer Perceptron Neural Networks Classifier</b> Moshira S. Ghaleb ; Hala Ebied ; Howida Shedeed ; Mohamed F. Tolba
	ICICIS2019-104	<b>Traffic Signs Detection and Recognition system</b> Marco Magdy William ; Pavly Salah Zaki ; Bolis Karam ; Kerolos Gamal Alexsan ; Maher Mansour ; Magdy El-Moursy ; Kerolos Khalil
	ICICIS2019-116	<b>Enhanced Skin Lesions Classification Using Deep Convolutional Networks</b> Ensaf Mohamed ; Wessam El-Behaidy

**Sunday, December 8, 2019 – Louvre 7 Hall**

<b>CS 2 - Information Systems, Computer Networks and Network Security I</b> <b>Session Chairs: Prof. Sarma Cakula, Prof. Mohammed Roushdy Prof. Ayman Bahaa</b>		
<b>4:00-5:45</b>	ICICIS2019-9	<b>Transformation of UML State Machine To YAWL.</b> Meriem Kherbouche ; Khawla Bouafia ; Balint Molnar
	ICICIS2019-136	<b>A New Hybrid (MD5 and RC4) Cryptography Algorithm Using Multi-logic States</b> Suhad Kareem ; Abdul Monem Rahma
	ICICIS2019-45	<b>Modeling One-way and Two-way quantum key distribution protocols</b> Ahmed Sofy , Mohamed Shalaby ; Hesham El-Dhashan ; Alaa Rohiem ;
	ICICIS2019-72	<b>Securing the Space Data Link Communication Protocol of Earth Observation Satellites</b> Amr Abdelaziz ; Essam Abdelwaness ; Ashraf Diaa
	ICICIS2019-100	<b>Synergy of GIS and IoT for Weather Disasters Monitoring and Management</b> Akram Nabil; saleh mesbah ; Ashraf Sharawi
	ICICIS2019-106	<b>Hybrid Medical Image Fusion based on Fast Filtering and Wavelet Analysis</b> Shrouk Elmasry ; Shady Elmashad ; Noha Ezzat ; Wael Abdelkader ;
	ICICIS2019-125	<b>Secured Framework for IoT Using BlockChain</b> Ali Ahmed ; Nagwa Omar ; Hosny Ibrahim

**Sunday, December 8, 2019 – Louvre 8 Hall**

<b>CS 3 - High Performance Computing, Robotics and Embedded Systems</b> <b>Session Chairs: Prof. Tarek El- Ghazawi, Prof. Essam Khalifa, Prof. Eman Shabban, Dr.Kareem Emara</b>		
<b>4:00-5:45</b>	ICICIS2019-34	<b>A Dynamic Simulation Environment for Containerbased Cloud Data Centers using ContainerCloudSim</b> Noorhan Saleh; Maggie Mashaly
	ICICIS2019-46	<b>High performance computing satellite orbit determination using ground station observations</b> Mostafa Gharakawy; Hossam Hendy; Yehia Elhalwagy; Ahmed Elfarouq



	ICICIS2019-57	<b>Spacecraft Orbital maneuver Flight Dynamics Simulation and Verification</b> Hossam Alshamy; Hossam Hendy; Ahmed Makled; Yehia Elhalwagy
	ICICIS2019-93	<b>Classical and Intelligent multivariable control algorithms for Aerosonde UAV</b> Eslam Mobarez; Amr Sarhan ; Mahmoud Ashry
	ICICIS2019-94	<b>Formation Flight of Fixed Wing UAV Based on ANFIS</b> Eslam Mobarez ; Amr Sarhan; Mahmoud Ashry
	ICICIS2019-150	<b>Trust Evaluation of Service level Agreement for Service Providers in Mobile Edge Computing</b> Tamer Abdelkader ; Merrihan Mansour; El-Sayed El-Horbaty
	ICICIS2019-14	<b>Steady State Analysis of Buffer Contents in a General Communication System</b> Fayza Nada

## ICICIS 2019 Session's Chairs

**Monday, December 9, 2019 - Imperia Hall**

<b>8:30-9:30</b>	<b>Registration</b>
<b>9:30-10:30</b>	<b>Keynote Speech III</b> <b>Session Chairs: Prof. Ebada Sarhan, Prof. Abdel-Badeeh Sallem, Prof. Said Ghoniem</b>
	<i>Speech 4: Big Data for Better Life</i> Prof. Guo, Yi-Ke, Professor of Computing Science in the Department of Computing at Imperial College London, US
<b>10:30-11:30</b>	<i>Speech 5: Exascale and the Convergence of High-Performance Computing, Big Data, AI and IoT</i> Prof. Tarek Ghazawi, Professor in the Department of Electrical and Computer Engineering at the George Washington University, USA
<b>11:30-12:00</b>	<b>Coffee Break</b>
<b>12:00-1:00</b>	<b>Keynote Speech IV</b> <b>Session Chairs: Prof. Atef Galoash, Prof. Zaki Taha, Dr. Sherin Moussa</b>
	<i>Speech 6: Future Generation Education Technological Model</i> Prof. Sarma Cakula, Professor at the Faculty of Engineering, Vidzeme University of Applied Sciences, Latvia
<b>1:00-2:00</b>	<b>Lunch</b>

**Monday, December 9, 2019 - Imperia Hall**

<b>CS 4 - Machine Learning, Pattern Recognition, signal &amp; Image Processing, Graphics and Data Visualization II</b> <b>Session Chairs: Prof. Guo, Yi-Ke, Prof. Aliaa Youssef , Dr. Tamer Mostafa</b>		
<b>2:00-3:30</b>	ICICIS2019-3	<b>OA18: A New Office Actions Benchmark</b> Bassel Chawky ; Mohammed Maray ; Howida Shedeed
	ICICIS2019-10	<b>Multi-Emotion Classification Evaluation via Twitter</b> Soha El Shafie; Sally Saad; Khaled Bahnasy; Mostafa Aref
	ICICIS2019-64	<b>Analysis of Dorsal Palm Vein Pattern Recognition System</b> sherok Rabie ; Hala Ebied ; Sahar Bayoumi

	ICICIS2019-65	<b>An Intelligent Hybrid Technique of Decision Tree and Genetic Algorithm for E-Mail Spam Detection</b> Ahmed Taloba ; Safaa Sobhy
	ICICIS2019-67	<b>Lung Nodule Detection and Classification using Random Forest: A Review</b> Nada El Askary ; Mohammed A.-M. Salem ; Mohammed Ismail Roushdy
	ICICIS2019-108	<b>Artificial Neural Network as Ensemble Technique Fuser for Improving Classification Accuracy</b> Mohammed Elnahas ; Mahmoud Hussein; Arabi Keshk
<b>3:30-4:00</b>	<b>Coffee Break</b>	
<b>CS 5 - Machine Learning, Pattern Recognition, signal &amp;Image Processing, Graphics and Data Visualization III</b> <b>Session Chairs: Prof. Said Fadel, Prof. Hwoida Sheeded, Dr. Safaa Amin</b>		
<b>4:00-5:30</b>	ICICIS2019-69	<b>Abnormal action detection in video surveillance</b> Omnia Elsayed; Mohammed Abdel-Megeed Salem; Esraa Abdelfatah ; Noura Marzouk
	ICICIS2019-68	<b>Resource Management using Machine Learning in Mobile Edge Computing: A Survey</b> Marwa Zamzam , Tallal Elshabrawy, Mohamed Ashour
	ICICIS2019-19	<b>Hybrid Method for Modeling User Interests based on Social Network</b> Marina Shafik ; Rania Elgohary ; Ibrahim Moawad ,Mohamed Roushdy
	ICICIS2019-32	<b>Algorithm for Automatic Crack Analysis and Severity Identification</b> Sara Hamdy , Islam Hegazy, Taha L. Elarif
	ICICIS2019-47	<b>Violence Recognition From Videos using Deep Learning Techniques</b> Mohamed Mostafa ; Mohamed Hussein, Mina AbdelMassih ; Youssef Mostafa ; Bassel Chawky ; Dina Khattab
	ICICIS2019-48	<b>Small Objects Detection in Satellite Images Using Deep Learning</b> Ahmad Mansour ; Wessam Hussein ; Ehab Said

**Monday, December 9, 2019 - Louvre 7 Hall**

<b>CS 6 - Information Systems, Computer Networks and Network Security II</b> <b>Session Chairs: Prof. Ali El-Naem, Prof. Imane Saroit , Dr. Walaa Khaled, Dr. Mohammed Marey</b>		
<b>2:00-3:30</b>	ICICIS2019-5	<b>Filter Versus Wrapper Feature Selection For Network Intrusion Detection System</b> Mahmoud Sakr; Medhat Tawfeek ; Ashraf El-sisi
	ICICIS2019-127	<b>Predicting Stock Market Trends for Japanese Candlestick using Cloud Model</b> Mohamed Elkholy ; Saad Darwish ; Magda Madbouly ; Yasser Gharib
	ICICIS2019-30	<b>Secure Multiparty Computation via Homomorphic Encryption Library</b> Sahar Ghanem ; Islam Moursy
	ICICIS2019-41	<b>DDoS attack detection and classification via Convolutional Neural Network (CNN)</b> Ahmed Ramzy; Essam Abdelwaness ; Mohamed Hussein
	ICICIS2019-76	<b>Energy Management of Smart Homes Considering Appliance Scheduling Flexibility</b> Sarah Azzam; Tallal Elshabrawy ; Mohamed Ashour
	ICICIS2019-134	<b>A Novel Approach for Multi-Resource Planning in Construction Engineering</b> Ghada Maher ; osama abd-el-Raof ; Nancy A. El- Hefnawy , Ahmed Kfayf
<b>3:30-4:00</b>	<b>Coffee Break</b>	
<b>CS 7 - Information Systems, Computer Networks and Network Security II</b> <b>-Data Analytics and Knowledge Discovery</b> <b>-Software Engineering and Testing</b> <b>Session Chairs: Taha Elarif, Dr. Sherine Rady, Dr. Nivin Atef, Dr. Wedad Hussien</b>		
<b>4:00-5:30</b>	ICICIS2019-147	<b>UCM-AODV: Utility-based Cache Management for AODV Vehicular Ad Hoc Networks</b> Ayat Nabieh; Mohamed Sharaf; Salah Ramadan; Mahmoud Marie
	ICICIS2019-50	<b>Key Distribution Protocol for Identity Hiding in MANETs</b> Yomna Mohsen ; Mohamed Hamdy El Eliemy; Eman Shaaban
	ICICIS2019-74	<b>A Proposed Rough Set Based Case Base Partitioning Approach to Enhance Indexing Using Unique Combinations</b> Adel Abdel-Halim; Mostafa Abd El Azim ; Khaled Bahnsy

	ICICIS2019-111	<b>A Unified Access to Heterogeneous Big Data through Ontology-Based Semantic Integration</b> Naglaa Fathy ; Walaa Gad ; Nagwa Badr
	ICICIS2019-112	<b>Testing Techniques in IoT-based Systems</b> Noha Medhat ; Sherin Moussa ; Nagwa Badr ; Mohamed F. Tolba
	ICICIS2019-148	<b>Enhanced Approach for Maximizing Coverage in Automated Mobile Application Testing</b> Amira Samir ; Huda Maghawry ; Nagwa Badr

**Monday, December 9, 2019 – Louvre 8 Hall**

<b>CS 8 - Machine Learning, Pattern Recognition, signal &amp; Image Processing, Graphics and Data Visualization IV</b>		
<b>Session Chairs: Prof. Ibrahim El-Henawy, Prof. El-Sayed M. El-Horbaty, Prof. Rania El-Gohary, Dr. Yasmine Afify</b>		
<b>2:00-3:30</b>	ICICIS2019-7	<b>Forecast and Manipulation of HCV Eradication in Egypt based on its National Screening Project</b> Norhan khallaf; Nancy A. El-Hefnawy; Osama Abd-el-Raof)
	ICICIS2019-8	<b>A Review on Iris Liveness Detection Techniques</b> Manar Ramzy Dronky, Wael Khalifa, Mohamed Roushdy
	ICICIS2019-54	<b>A Robust 3D Mesh Watermarking Approach Based on Genetic Algorithm</b> Mourad R. Mouhamed , Mona M.Soliman, Ashraf A.Darwish , Aboul Ella Hassanien
	ICICIS2019-83	<b>Satellite Lithium-ion Battery Remaining Useful Life Estimation by Coyote Optimization Algorithm</b> Sara Abdelghafar ; Essam Goda ; Ashraf Darwish ; Aboul Ella Hassanien
	ICICIS2019-84	<b>Temporal Action Detection with Fused Two-Stream 3D Residual Neural Networks and Bi-Directional LSTM</b> Noorhan Fawzy ; Mohammed Maray ; Mostafa Aref
	ICICIS2019-86	<b>Automatic counting of infected white blood cells using multi-Level thresholding</b> Lamia Nabil ; kadry ezzat ;Ashraf Darwish ; Aboul Ella Hassanien
<b>3:30-4:00</b>	<b>Coffee Break</b>	
<b>CS 9 – Bioinformatics and Biomedical Applications</b>		
<b>Session Chairs: Prof. Hassan Ramadan, Prof. Khaled Bahnsy, Dr. Mahmoud Monir</b>		

<b>4:00-5:15</b>	ICICIS2019-71	<b>Wireless ECG Monitoring System for Telemedicine Application</b> Ahmed Aboalseoud; Akram Youssry ; Mohamed El-Nozahi; Ahmed El-Rafei; Ahmed ElBialy; Hani Ragaai; Ayman Wahba
	ICICIS2019-80	<b>Gene Expression Data For Gene Selection Using Ensemble Based Feature Selection</b> Mohamed Aouf; Amr Sharawy; Khaled Samir ; Sultan Almotairi; Abdulla Bajahzar; Ghada Kareem
	ICICIS2019-81	<b>Glaucoma Detection from Fundus Camera Image</b> Mohamed Aouf; Sultan Almotairi; Abdulla Bajahzar; Ghada Kareem
	ICICIS2019-141	<b>Steganography in DNA Sequence on the Level of Amino acids</b> Mona Sabry ElSayed ; Taymoor Nazmy ; Essam Khalifa
	ICICIS2019-143	<b>Design Symmetric and Asymmetric Single Circular Split Ring Microwave Sensor Using COMSOL Multiphysics</b> Sameh Sherif; Mohamed A. A. Eldosoky ; Ahmed M. Soliman

