



**4<sup>th</sup> International Conference for Computing and Informatics**

**( ICCI' 2019 )**

*December 10<sup>th</sup>, 2019*

*Organized By*

**Faculty of Computers and Information Technology  
Future University in Egypt**

*Under the Auspices of*

**Mr. Khaled Azazy  
Chairman, Board of Trustees  
Future University in Egypt**

*Honorary Chair*

**Prof. Ebada Sarhan**  
*President of Future University in Egypt*

*Conference Chair*

**Prof. Mohamed Roushdy**  
*Dean, Faculty of Computers and Information Technology*  
*Future University in Egypt*

*Conference Co-Chair*

**Prof. Neveen I. Ghali**  
*Vice-Dean, Faculty of Computers and Information Technology*  
*Future University in Egypt*

## The 4<sup>th</sup> International Conference for Computing and Informatics (ICCI' 2019)

ICCI' 2019 aims to attract researchers, scientists and technologists from some of the top companies, universities, research firms and government agencies from around the world. The conference provides opportunities for networking, exchange of research ideas, and application experiences.

### Conference Planning Committee

**Mohamed Roushdy, *Conference Chair***

Dean, Faculty of Computers and Information Technology, Future University in Egypt, Egypt.

**Neveen Ghali, *Conference Co-Chair***

Vice-Dean of Post Graduates Studies and Research, Faculty of Computers and Information Technology, Future University in Egypt, Egypt.

**Abdel-Badeeh Salem**

Faculty of Computers and Information Sciences, Ain Shams University, Egypt.

**Aliaa Youssif**

Dean, Faculty of Computing and Information Technology, Arab Academy for Science and Technology and Maritime transport, Smart Village, Egypt

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**Aliaa Youssif**

Faculty of Computing and Information Technology, Arab Academy for Science and Technology and Maritime transport, Smart Village, Egypt.

**Ambikesh Jayal**

Cardiff Metropolitan University, UK.

**Alicia Maravelia**

Hellenic Institute of Egyptology and People's University of Athens, Greece.

**Atef Ghalwash**

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**Sarma Cakula**

Vidzeme University of Applied Science, Latvia University, Latvia.

**Soumya Banerjee**

National Institute for Research in Computer Science and Automation, Paris, France

**Tarek El-Ghazawi**

George Washington University, Washington, USA.

**Yehia Helmy**

Faculty of Commerce and Business Administration, Helwan University, Egypt.

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**Scientific Coordinators**

**Mohamed Attia**

**Salma Radwan**

**Amany Hussien**

**Mahmoud Magdy**

**Shimaa Tarek**

**Salma Roshdy**

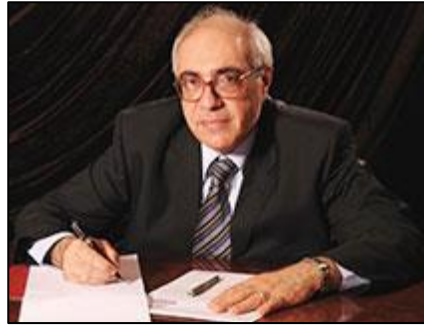
**Maha Farghaly**

**Bassant Adel**

**Nada Emad**

**Faculty of Computers and Information Technology, Future University in Egypt.**

## WELCOME NOTE



**Prof. Ebada Sarhan**

**President of Future University in Egypt  
Honorary Chair**

I am delighted to welcome you to the 4<sup>th</sup> International Conference for Computing and Informatics (ICCI' 2019) which will be held on the 10<sup>th</sup> of December 2019, at Helnan Landmark Hotel, Cairo, Egypt. Undoubtedly, communication technology has fundamentally transformed our society in the recent decades. The pace of this change can be described as rapid and constructive, and the technology itself is progressing and exploring new horizons. The delegates in ICCI' 2019 will discuss and present the latest advances in next generation networking and wireless communication systems. A diverse range of topics from green communication systems are featured in the conference, as well. Moreover, in the ICCI' 2019, you will also hear about data science, cloud computing, the Internet of Things, biometrics, and a range of other exciting topics that is poised to change our lives.

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# *Keynote Speakers*

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**Prof. Tarek El-Ghazawi**

**Tarek El-Ghazawi** is a Professor in the Department of Electrical and Computer Engineering at The George Washington University, where he leads the university-wide Strategic Academic Program in High-Performance Computing. He is the founding director of The GW Institute for Massively Parallel Applications and Computing Technologies (IMPACT) and was a founding Co-Director of the NSF Industry/University Center for High-Performance Reconfigurable Computing (CHREC), established with funding from NSF, government and industry. El-Ghazawi's research interests include high-performance computing, computer architectures, reconfigurable and embedded computing, nano-photonic based computing, and computer vision and remote sensing. He is one of the principal co-authors of the UPC parallel programming language and the first author of the UPC book from John Wiley and Sons. El-Ghazawi is also one of the pioneers of the area of High-Performance Reconfigurable Computing (HPRC).

Dr. El-Ghazawi was also one of the early researchers in Cluster Computing and has built the first GW cluster in 1995. At present he is leading efforts for rebooting computing based on new paradigms including analog, nano-photonic and neuromorphic computing. He has served on many boards and served as a consultant for organizations like CESDIS and RIACS at NASA GSFC and NASA ARC, IBM and ARSC. He has received his Ph.D. degree in Electrical and Computer Engineering from New Mexico State University in 1988. El-Ghazawi has published over 250 refereed research publications in his area and his work was funded by government and industry. His research was funded extensively by such government organizations like DARPA, NSF, AFOSR, NASA, DoD and industrial organizations such as Intel, AMD, HP, SGI. Dr. El-Ghazawi has served in many editorial roles including an Associate Editor for the IEEE Transactions Parallel and Distributed Computing and the IEEE Transaction on Computers. He has chaired and co-chaired many IEEE international conferences and symposia, including IEEE PGAS 2015, IEEE/ACM CCGrid2018, IEEE HPC/SmartCity/DSS 2017 to name a few. Professor El-Ghazawi is a Fellow of the IEEE and selected as a Research Faculty Fellow of the IBM Center for Advanced Studies, Toronto. He was also awarded the Alexander von Humboldt Research Award, from the Humboldt Foundation in Germany (given yearly to 100 scientists across all areas from around the world), the Alexander Schwarzkopf Prize for Technical



Innovation, and the GW SEAS Distinguished Researcher Award. El-Ghazawi has served as a senior U.S. Fulbright Scholar.



**Prof. Sarma Cakula**

**Sarma Cakula** was graduated with excellence from Latvia University, Department of Physics and Mathematics in 1984 and holds Ph.D. in 2002. She has two degrees from Latvia University, Computer Science 1984 and Pedagogics 2002.

Currently she is a professor at the Faculty of Engineering, Vidzeme University of Applied Sciences, Latvia. Sarma does research in Computer and Society, Higher Education and Engineering Education. Their current projects are SEMPRE and TELECI.



### **Prof. Alicia Maravelia**

**Prof. Alicia Maravelia**, is the founder, President and CEO of the Hellenic Institute of Egyptology, a Research Foundation under the Auspices of the Hellenic Orthodox Patriarchate of Alexandria and All Africa and HHB the Patriarch, Theodoros II, whose scope is the raise of funds in order to perform high-level and modern technology research, egyptological, archaeological and interdisciplinary projects, as well as the dissemination of Egyptology in the general Hellenic public, at Schools, Universities, the organization of scientific conferences, seminars, egyptological publications, and the like.

An Egyptologist and Archaeoastronomer; ex-Research Associate at the Centre for Egyptological Studies of the Russian Academy of Sciences (CES/RAS). She has many published more than 100 scientific papers and review articles on Egyptology and Archaeoastronomy and some books as well.

Prof. Alicia Maravelia Obtained her first PhD in Astronomy from the University of Athens, Department of Physics, Section of Astronomy and Astrophysics, Hellas, in 1997. She obtained her second PhD in Egyptology at the University of Limoges, Centre des Recherches en Sciences de l'Antiquité, École Doctorale SHS in 2004, and was given the highest possible grade.

An Editor in chief for several British Archaeological Reports International Series books. Participated actively with original papers and organized egyptological and archaeoastronomical sessions in many international scientific conferences, colloquia and congresses.

Currently, she is a professor of Egyptology at the People's University of Athens and teaches at the Institute's Seminar. She is also a member of the International Association of Egyptologists, the European Association of Archaeologists, the Euro-Mediterranean Academy of Arts and Sciences, the International Society for Archaeoastronomy and Astronomy in Culture (ISAAC), the Hellenic Society of Aesthetics, and the Association of Greek Women Scientists, and c.

**Topic of the Speech:** Application of Smart Informatics in Egyptology: The Athens Mummy Project as an Example of Effective Interdisciplinarity.

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# *Conference Program*

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**Tuesday, December 10<sup>th</sup>, 2019**

**Registration 9:30 - 10:00**

**Opening Session: 10:00 - 10:30**

**Prof. Ebada Sarhan**, *President of Future University in Egypt, Egypt.*

**Prof. Mohamed Roushdy**, *Dean, Faculty of Computers and Information Technology, Future University in Egypt, Egypt.*

**Prof. Neveen I. Ghali**, *Vice-Dean of Post Graduates Studies and Research, Faculty of Computers and Information Technology, Future University, Egypt.*

**Keynote Speech: 10:30 - 12:00**

**Session Chair: Prof. Abdel-Badeeh Salem**

**Vice Session Chair: Prof. Mohamed Roushdy**

**Prof. Tarek El-Ghazawi**, *Department of Electrical and Computer Engineering, George Washington University, USA.* **10:30 - 11:00**

**Prof. Sarma Cakula**, *Faculty of Engineering, Vidzeme University of Applied Science, Latvia.* **11:00 - 11:30**

**Prof. Alicia Maravelia**, *Hellenic Institute of Egyptology people's University of Athens, Greece.* **11:30 - 12:00**

**Coffee Break: 12:00 - 12:30**

**1<sup>st</sup> Session: (Room 1) 12:30 - 1:30**

**Session Chair: Prof. Essam Khalifa**

**Vice Session Chair: Prof. Osama Emam**

**Vice Session Chair: Prof. Mohamed Abdel Razik**

**Using Deep Learning for More Efficient Classification of Breast Cancer** **12:30 - 12:45**  
*Ahmed Refaie Elsayed, Assem ElSayed Saad, Mohammed Abdel Razek, Seif Eldin Fathy, and Youssef El kheshen.*

**Ontological Engineering for Source Code Generation** **12:45 - 1:00**  
*Anas Hmaid Aloklah, Walaa Gad, Mostafa M. Aref, and Abdel-Badeeh M.Salem*

**Reviewing Big Data Visualization: Challenges and Problems** **1:00 - 1:15**  
*Ahmed A. Gad Elrab, Neveen I. Ghali, and Ola M. El Zein*

**A Survey of Psychological Personality Classification Approaches.** **1:15 - 1:30**  
*Mervat Ragab, Mona Nasr, and Fahd Kamal.*

**2<sup>nd</sup> Session: (Room 2) 12:30 - 1:30**

**Session Chair: Prof. Aliaa Youssif**  
**Vice Session Chair: Prof. Neveen I. Ghali**  
**Vice Session Chair: Dr. Amira Idress**

- Statistical Analysis Insights and Association Mining for Tramadol Abuse in Menoufia Governorate, Egypt** 12:30 - 12:45  
*Nour Eldeen M. Khalifa, Heba Al Shater, Sarah Hamed N. Taha, Mohamed Hamed N. Taha, and Aboul Ella Hassanien*
- A Survey on Classification Analysis for Cancer Genomics: Limitations and Novel Opportunity in the Era of Cancer Classification and Target Therapies** 12:45 - 1:00  
*Marwa A. Abdelazim, Waleed Mahmoud Ead, and Mona Mohamed Nasr*
- Proposed Framework for Smart Healthcare Services** 1:00 - 1:15  
*Dalia Kamal A. A. Rizk, Hoda M. Hosny, El-Sayed M. El-Horbaty, and Abdel-Badeeh M. Salem*
- A Proposed Optimization Method based on Venus Flytrap** 1:15 - 1:30  
*Amany A. Naeim and Neveen I. Ghali*

**3<sup>rd</sup> Session: (Room 1) 1:30 - 2:30**

**Session Chair: Prof. Yehia Helmy**  
**Vice Session Chair: Prof. Khalid Hosny**  
**Vice Session Chair: Prof. Rania Elgohari**

- Sensing Architectures Review as a Green Solution for IoT** 1:30 - 1:45  
*Ahmed A. Gad Elrab, Neveen I. Ghali, Lamia Diab, and Rasha Wahid*
- Comparative Study on Online and Offline Signature Identification and Verification Techniques.** 1:45 - 2:00  
*Nehal Hamdy Al-bnhawy, Heba Mohsen, and Neveen I. Ghali*
- A Comparative Study for Methodologies and Algorithms used in Colon Cancer Diagnoses and Detection.** 2:00 - 2:15  
*Mona Nasr, Laila Abdelhamid, and Naglaa Shehata*
- Machine Learning Techniques for Credit Card Fraud Detection** 2:15 - 2:30  
*Hossam Eldin M. Abd Elhamid, Wael H. Khalifa, Mohamed Roushdy, and Abdel-Badeeh M. Salem*

**4<sup>th</sup> Session: (Room 2) 1:30 - 2:30**

**Session Chair: Prof. Awad Khalil**  
**Vice Session Chair: Prof. Atef Ghalwash**  
**Vice Session Chair: Prof. Mohamed Hashem**

<b>A Framework for Minimizing Peak Load Electricity using IoT</b> <i>Mona Nasr, Laila Abd Elhamid, and Amira Hassan Abed</i>	<b>1:30 - 1:45</b>
<b>Waste Management Problem by using Internet of Things: Challenges, Problems, and Solutions</b> <i>Ahmed A. Gad-Elrab, Shereen Abd-Elaal, and Neveen I. Ghali</i>	<b>1:45 - 2:00</b>
<b>Intelligent Technique for Automating the Conversion between Major and Minor Melodies</b> <i>Nermin Naguib J. Siphocly, El-Sayed M. El-Horbaty, and Abdel-Badeeh M. Salem</i>	<b>2:00 - 2:15</b>
<b>Human Authentication using Palm Vein</b> <i>Mona A.Ahmed, Abdel Badee M.Salem, and Mohamed Roushdy</i>	<b>2:15 - 2:30</b>

**Lunch: 3:00 - 4:00**

## Conference Venue

### HELNAN LANDMARK HOTEL

Plot 86, 90<sup>th</sup> street, 5<sup>th</sup> settlement, New Cairo - Egypt  
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Email: [landmark@helnan.com](mailto:landmark@helnan.com)

## Papers Publication

All accepted papers are published in “Future Computing and Informatics Journal”, (Hosted on Digital Commons Elsevier)

<https://www.journals.elsevier.com/future-computing-and-informatics-journal>

## Contact US

The 4<sup>th</sup> International Conference for Computing and Informatics (ICCI' 2019)

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