

Research Institute of Sciences, Engineering, & Computing & Informatics

Office of the Vice Chancellor for Research & Graduate Studies
University of Sharjah



RESEARCH INSTITUTE OF SCIENCES & ENGINEERING
معهد البحوث للعلوم والهندسة

Issue No. 3, Academic Year: 2020/2021

The purpose of this circular is to briefly introduce leading researchers in sciences, engineering and computing and informatics and highlight aspects of their research experience and achievements. The following researchers are introduced in this circular, with more researchers to be introduced in the upcoming issues:

- Prof. Khalil Abdelrazek Khalil Abdelmawgoud
- Prof. Soliman A. Mahmoud
- Prof. Mohammad Shamsuzzaman
- Prof. Imad Alsyounf
- Dr. Muhammad Zubair
- Dr. Thar Baker Shamsa
- Dr. Mohammad Ali Abdelkareem
- Dr. Mamdouh El Haj Assad
- Dr. Anwar Jarndal
- Dr. Belkacem Said-Houari
- Dr. Zahid Raza

Prof. Khalil Abdelrazek Khalil Abdelmawgoud

Prof. Khalil Abdelrazek Khalil Abdelmawgoud is a Professor of Nanomaterials in the Department of Mechanical and Nuclear Engineering, College of Engineering, University of Sharjah faculty member since 2016. He served as Chair of the MNE department from 2016 to 2018 and Assistant Dean for Graduate Studies at the College of Engineering since 2018. He completed his Ph.D. at Central South University, P.R. China, MSc. and BSc at College of Engineering, Minia University, Egypt. He is a Desalination research group member and a researcher at RISE.



Research Interests & Collaboration: His research interests are in the area(s) of Nanomaterials, Nanofibers, and their applications in Water Desalination, Energy, and Biomedical. He actively collaborates with researchers from Engineering, Dental Medicine, Medicine, and Science at the University of Sharjah and abroad. He served as Lead guest editor for the International Journal of System Assurance and Engineering Management and Committee chair for many conferences, etc.

Research Achievements: His research achievements include: (More than 110 ISI journal publications, three books/book chapters, More than 25 conference publications, three patents, more than 5 M USD (money) Grants, 4000 citations; 32 H-Index. He received more than 5 awards related to research.

Prof. Khalil worked for three years in industries after obtaining his BSc in Mechanical Engineering. He worked in Sugar and Integrated Industries Company (SIIC) as planning and follows up engineer. He started his career as Assistant Lecturer in 1995. In 1996 he completed his master's degree. In 1998 he was accepted into the Trans-Century Training Program for Talents by the Ministry of Education of China and the Ministry of Higher Education of Egypt as a scholarship student to complete his Ph. D degree. He earned a Ph.D. in 2002. He got an opportunity for a Postdoc fellowship in CBNU, South Korea, from 2004-2005. He was later selected through the Long-Term Foreign Faculty Program for another 2 years in the same University. He had the opportunity to work on the Bio-Nanomaterials, he returned to Egypt in 2007 and was promoted to Full Professor in 2011. He also worked as an Associate and full Professor in the Faculty of Engineering, King Saud University, Saudi Arabia, 2008 to 2016.

For additional information see

https://www.sharjah.ac.ae/en/academics/Colleges/eng/dept/MNE/Pages/ppl_detail.aspx?mcid=13&clt=

Prof. Soliman A. Mahmoud

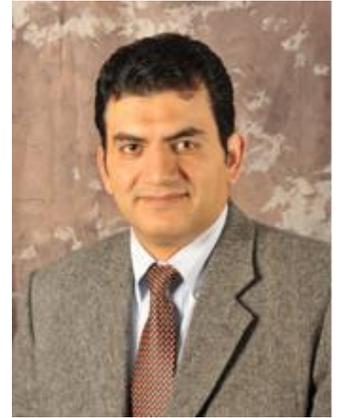
Prof. Soliman A. Mahmoud was born in Cairo, Egypt, in 1971. He received the BSc degree with honors in 1994, the MSc degree in 1996, and the PhD degree in 1999, all from the Electronics and Communications Department, Cairo University, Egypt. He is Professor and the department chairman at the Electrical Engineering Department, University of Sharjah, Sharjah, UAE. Prof. Soliman Mahmoud is recognized among the top 2% scientists in the world and ranked # 640 out of 87600 scientists in the field of electronics and electrical engineering worldwide, 2020.

Prof. Mahmoud is actively engaged in scholarly research work and has authored and co-authored more than 150 journal and conference publications since joining academia in 1996. His articles received more than 2000 citations and his Google Scholar h-index is 24 (h-index from Scopus is 21). Prof. Mahmoud published also 6 refereed research books His research interest lie in the area of mixed analog/digital integrated electronic circuit (IC) design including mixed mode (Voltage/Current) analog circuits IC design, mixed (analog/ Digital) programmable CMOS Electronics Systems, Biomedical Circuits, Field Programmable Analog arrays (FPAA), and Multi-standard wireless receiver design. He supervised 2 PhD students, 14 MSc. students and more than 40 senior design projects. Prof. Mahmoud have received “The German-Egyptian Research Fund” Grant. The Grant has been used to finance the project “Design of CMOS Field Programmable Analog Array and its Applications”. The project has been carried out in collaboration with Ulm Microelectronics Institute, ULM university, Germany. Prof. Mahmoud was decorated with the Distinguished research award for the year 2014-2015 and for the year 2011-2012 from University of Sharjah, UAE. In 2005, He was decorated with the Science Prize in Advanced Engineering Technology from the Academy of Scientific Research and technology, Higher Ministry of Education, Cairo, Egypt.

From January 2010- until now, Prof. Mahmoud joined the Electrical and Computer Engineering Department at University of Sharjah and he is currently the department chairman. He was also assistant dean for research and graduate studies since from Sept. 2016 to August 2018. In October 27, 2010, He is promoted to a professor of Electronics and Communications Engineering, Fayoum University, Egypt. Prof. Mahmoud was a visiting Professor at ULM University, Germany (Summer 2008) and (Summer 2009). From 2007- 2010, Prof. Mahmoud served as acting Chairman of Electronics and Communications Engineering Department, Fayoum University, Egypt. He was also Associate Professor at the Electrical and Electronics Engineering Department, German University in Cairo, Egypt. In September 2005, Prof. Mahmoud is promoted to an Associate professor of Electronics and Communications Engineering, Cairo University, Egypt. From 1999-2005, he served as an Assistant Professor in Electronics and Communications Engineering, Cairo University, Egypt.

For additional information see

https://www.sharjah.ac.ae/en/academics/Colleges/eng/dept/ecep/Pages/ppil_detail.aspx?mcid=5



Prof. Mohammad Shamsuzzaman

Prof. Mohammad Shamsuzzaman is a Professor of the Department of Industrial Engineering and Engineering Management at the University of Sharjah, UAE. He received Ph.D. in Systems and Engineering Management from Nanyang Technological University (NTU), Singapore in 2005, M.Sc. in Industrial Systems Engineering from Asian Institute of Technology (AIT), Thailand in 2000, and B.Sc. in Mechanical Engineering from Chittagong University of Engineering and Technology (CUET), Bangladesh in 1994. Prior to joining the University of Sharjah in 2008 as an Assistant Professor, he worked as a Lecturer and an Assistant professor at Dhaka University of Engineering and Technology (DUET), Bangladesh, and as a Postdoctoral Fellow at National University of Singapore (NUS), Singapore. He was promoted to Associate Professor at the University of Sharjah in 2013.



His current research interests are in quality control and inspection, quality in maintenance, process improvement using Lean Six Sigma (LSS), Design of Experiments (DOE), pattern recognition and fault detection, and Multi-Criteria Decision-Making (MCDM) in complex manufacturing and service industries considering sustainability aspects. Prof. Mohammad's research mainly focuses on the development of real-time monitoring tools for manufacturing processes under limited resources and constraints. He has published 79 research articles including 44 peer-reviewed journal articles, 34 international conference articles and a monograph (ISBN 978-3-639-31580-6) with 771 citations, 17 h-index, and 24 i10-index (Google Scholar, January 2021). He has collaboration with outstanding research groups in Canada, Finland, Australia, Malaysia, and Hong Kong.

He has supervised twelve M.Sc. theses/projects and one Ph.D. thesis, and acted as an examiner for several M.Sc. and Ph.D. theses. He is a PI and Co-PI of several successfully completed and on-going research projects. He was awarded the University of Sharjah Scientific Research Award in recognition of his outstanding research efforts in 2016. Prof. Mohammad acts as an editorial board member for four international journals including International Journal of Forensic Engineering and Management, and Journal of Business Administration Research. He is a reviewer, track chair, and a member of the steering and organizing committee of many international conferences. Prof. Mohammad is a member of the American Society for Quality (ASQ) and European Network for Business and Industrial Statistics (ENBIS).

For additional information see

https://www.sharjah.ac.ae/en/academics/Colleges/eng/dept/iemd/Pages/ppl_detail.aspx?mcid=5&clt=en

Prof. Imad Alsyouf

Prof. Imad Alsyouf received the B.Sc. in Mechanical Engineering and M.Sc. in Industrial Engineering from the University of Jordan, Jordan, in 1989 and 1995, respectively. He received the PhD degree in Industrial Engineering from Linnaeus University, Sweden, in 2004. He worked as an assistant professor at Linnaeus University from 2004 to 2009, where he was promoted to Associate Professor. He joined the IEEM Department at the University of Sharjah in January 2010 as an Associate Professor. He served as the Chairman of the IEEM Department during 2014-2015. He is the founder and coordinator of the Sustainable Engineering Asset Management (SEAM) Research Group since 2015. Currently, Alsyouf is the Director of the Sustainability Office since 2017. He was promoted to the rank of full professor in June 2020.



He has about 31 years of industrial and academic experience in Jordan, Sweden, and the UAE. According to the Scopus database, he has produced 74 publications with 985 citations and h-index of 10. He has also supervised many M.Sc. and PhD students, three of his PhD students graduated in Spring 2020. His research interests include reliability, quality, maintenance, and optimization. He has seven funded research projects: three as principal investigator (PI), four as co-investigator (CI) in collaboration with national and international organizations. He is acting as a reviewer for many international scientific journals, a member of many international conference technical committees, and a member of the editorial board of one international scientific journal. He has developed and taught more than 25 post and undergrad courses. He delivered training courses in Kaizen, TQM, and organizational excellence.

For additional information see:

https://www.sharjah.ac.ae/en/academics/Colleges/eng/dept/iemd/Pages/ppl_detail.aspx?m_cid=1&clt=en

<https://www.sharjah.ac.ae/en/Administration/Sustainability/Pages/default.aspx>

Dr. Muhammad Zubair

Dr. Muhammad Zubair is working in the capacity of “Associate Professor” in The Department of Mechanical & Nuclear Engineering, University of Sharjah, UAE. Before this he worked as Assistant Professor and Graduate Program Coordinator at University of Engineering and Technology Taxila, Pakistan. He selected for Post-Doc fellowship at Kyung Hee University, funded by National Research Foundation (NRF) South Korea in 2013. He is a PhD approved supervisor by the Higher Education Commission (HEC), Pakistan since 2012. He received his PhD degree in Nuclear Energy Science & Engineering from Harbin Engineering University, China in 2011. He graduated from University of the Punjab, Pakistan with MSc in Physics in 2007.



He mostly associated with nuclear reactor safety, accident analysis, reliability and risk analysis as well as digital instrumentation & control and radiation detection & measurements. He has strong research background supported by 40 international journal and 20 international conferences publications. He is engaged in different research projects of noticeable importance including International Atomic Energy Agency (IAEA) coordinated project. He served as instructor in the “Regional Training Course on Pressurized Water Reactor (PWR) Technology Using Basic Principle and GlassTop Nuclear Power Plant Simulators”, organized by IAEA and University of Sharjah, in 2018 and 2019.

He has been invited as invited/guest speaker in different conferences/workshops/symposiums. He is also serving as Editor, Associate Editor, and technical committee member in international journals and conferences.

For additional information see:

https://www.sharjah.ac.ae/en/academics/Colleges/eng/dept/MNE/Pages/ppl_detail.aspx?mcid=18&clt=en

Dr. Thar Baker Shamsa

Dr. Thar Baker Shamsa is currently an Associate Professor in the Department of Computer Science, College of Computing and Informatics at University of Sharjah. He was Reader in Cloud Engineering, Head of Applied Computing Research Group, and Faculty Research Degree Committee (FRDC) rep of Computer Science in the Faculty of Engineering and Technology at Liverpool John Moores University (LJMU, UK) from 2013–2020. Prior to then, he had worked in the Department of Computer Science at Manchester Metropolitan University (UK). He received his PhD from LJMU, Liverpool, UK in 2010.

Dr. Thar is a Senior Fellow of UK Higher Education Academy (SFHEA), and a member of Institute of Leadership and Management (iLM), IEEE, BCS, and ACM. He published 150+ peer-reviewed international research papers (90+ journals, 60+ conferences, and 9 books/chapters) in multidisciplinary research areas including: cloud engineering, big data, green/sustainable computing, and IoT. His publications are cited world-wide (citation >2300, h-index 27). He secured over £3.5m of research funding from national and international, commercial and non-commercial sources. He successfully supervised 7 PhD students and 15+ master-by-research students back in the UK and examined 30+ PhD/MPhil students.

Dr. Thar has made great global achievement by being listed in the World's Top 2% Scientist, a study conducted by Stanford University together with the publishing house Elsevier and SciTech Strategies in 2020. In addition, he had collaborated on research projects with world leading researchers from the University of Melbourne (Australia), Newcastle University (UK), University of Seville (Spain), University of Göttingen (Germany), Beijing Institute of Technology (China), St. Francis Xavier University (Canada), to name a few.

He has been actively involved as an Associate-/Editor for a number of peer-reviewed international journals (including Journal of Network and Computer Applications – Elsevier, Future Generation Computer Systems – Elsevier, and Discover IoT – Springer Nature) and is Chair for a number of international conferences. Thar was appointed as Expert Evaluator of the European 7th Framework Programme (EU-FP7 CONFINE), UAE ICTFund, British Council and Newton funds, and UNESCO research projects.

For additional information see:

https://www.sharjah.ac.ae/en/academics/Colleges/ci/dept/cs/Pages/ppl_detail.aspx?mcid=29&clt=en



Dr. Mohammad Ali Abdelkareem

Dr. Mohammad Ali Abdelkareem graduated from Minia University (Egypt) in 1998 with a BSc in Chemical Engineering. He received his PhD in Fuel cells from Gunma university (Japan) in 2008. He joined the Department of sustainable and Renewable Energy Engineering department at the University of Sharjah in 2015 as an associate professor. Dr. Mohammad's current research interests include the development of the anode and cathode of the direct methanol fuel cells, direct urea fuel cells, and microbial fuel cells. Moreover, Dr Mohammad is working on developing energy storage devices such as supercapacitors and batteries.

Dr. Mohammad has published more than 100 articles in international journals, more than 10 book chapters, and several national and international conferences. He participated as an organizer of two different international conferences.

Dr Mohammad received the State price in advanced Engineering Applications from Egyptian government in 2014, First class ribbon of excellence for research from Egyptian president in 2017, and Annual Incentives Award for Distinguished Faculty in Scientific Research for Academic year 2018/2019, University of Sharjah. Since 2013, Dr Mohammad participated as a principal investigator and co-principal investigator in more than 10 different research grants with a total fund more than 800,000 USD.

For additional information see

https://www.sharjah.ac.ae/en/academics/Colleges/eng/dept/sre/Pages/ppl_detail.aspx?mcid=13



Mamdouh El Haj Assad

Mamdouh El Haj Assad is an Associate professor of in the Department of Sustainable and Renewable Energy Engineering, College of Engineering, University of Sharjah (UoS) as a faculty member since 2016. He served as docent at Aalto University, Finland, and as mechanical engineering department chair at Australian College of Kuwait, Kuwait. He completed his PhD. at Aalto University, MSc. at Middle East Technical University, Turkey and BSc. at Middle East Technical University, Turkey. He is a member of Sustainable Energy Development research group at UoS.

His research interests are in the areas of geothermal energy, solar energy, wind energy, absorption chillers, mathematical modeling and exergy analysis. He actively collaborates with researchers from Aalto University, Tehran University, Shahrood University of Technology, Australian College of Kuwait and Islamic Azad University. He serves as an editor and guest editor for many journals.

His research achievements include numerous journal publications, books, book chapters, and conference publications. He obtained many Grants from more than 20 companies in Finland, in addition to the three years Grant from EU on osmotic power. He has recently published a book entitled as “Design and performance optimization of renewable energy systems”. He received the best teacher ward at Aalto University in 2011. He also received Sharjah Sustainability award in 2020.

For additional information see:

https://www.sharjah.ac.ae/en/academics/Colleges/eng/dept/sre/Pages/ppl_detail.aspx?mcid=19



Dr. Anwar Jarndal

Dr. Anwar Jarndal received his Ph.D. degree in electrical engineering from the University of Kassel, Kassel, Germany, in 2006. He was a Post-Doctoral Fellow with Ecole de Technologie Supérieure (ETS), Quebec University, Canada. He worked as an Assistant Professor at Hodeidah University (Yemen), University of Nizwa (Oman), King Faisal University (Saudi Arabia) and University of Sharjah (United Arab Emirates). He is currently an Associate Professor with the Department of Electrical Engineering of University of Sharjah. Dr. Jarndal received the University of Sharjah annual incentives award for distinguished faculty in scientific research. His was also classified as one of the World's Top 2% Scientists 2020 (Stanford University).



Dr. Jarndal has many research interests including active devices modeling, measurements and characterization techniques, power amplifiers design, low-noise amplifier design, local and global optimizations, artificial neural networks, machine learning, fuzzy logic, radio channel modeling and wireless power transfer. He has collaborative researches with many researchers over the world including United Arab Emirates, USA, Canada, Germany, Italy, Serbia, China, India, Pakistan, Bangladesh and Kazakhstan. He was a visiting researcher in LACIME Lab (ETS, Canada) and iRadio Lab (University of Calgary, Canada) during the summer of 2015 and 2017, respectively.

Dr. Jarndal has published over 100 internationally peer-reviewed publications. He is also serving as a reviewer for more than 20 International Journals.

For additional information see:

https://www.sharjah.ac.ae/en/academics/Colleges/eng/dept/ecep/Pages/ppl_detail.aspx?mcid=10&clt=en

Dr. Belkacem Said-Houari

Dr. Belkacem Said-Houari is an Associate Professor in the Department of Mathematics at University of Sharjah as a faculty member since 2017. He obtained the Habilitation (HDR) (the highest academic degree in France) in 2009 and completed his PhD in 2005 at Annaba University (Algeria). He has been a post doc researcher in many places around the world: University of Toulouse III - Paul Sabatier (France), Savoie University (France), Konstanz University (Germany), KAUST (Saudi Arabia). He was featured: Twice (in the January 2012 issue and in the July 2013 issue) of the KAUST newsletter as the most-published post docs, and Once (in March 2014 issue) of the Arabic Scientific Community Organization (ARSCO) as one of the most productive researchers in the Arab World. He was the winner of the Abdul Hameed Shoman Award for Young Arab Researchers (Mathematics, 2012) which is the most prestigious award in the Arab World. His main research interests are the analysis of partial differential equations, especially those related to Mathematics of fluid dynamics and Control Theory. He collaborates with researchers from Europe, USA, China, North Africa and UAE.



Dr. Belkacem has supervised (4 PhD students) to successful completion. His research achievements include: 66 journal publications in the top journals in his field of research, with 1124 Scopus citations and 1787 google citations and a Scopus H-index of 19. Since 2018, he has been the coordinator and principal investigator for the research group: Modeling Analysis and Simulation of Some Evolution Phenomena (MASEP) (approx. 100,000 AED/Year).

Dr. Belkacem has given many talks in seminars and conferences (USA, Europe, Middle-East, North Africa,...). In addition to his research work, Dr. Belkacem has written two textbooks: A Textbook in differential equations and their Applications published by Springer (2015) (ISBN 978-3-319-25734-1) (<http://www.springer.com/us/book/9783319257341>), and A Textbook in Linear Algebra published by Springer (2017) (ISBN 978-3-319-63792-1) (<http://www.springer.com/gp/book/9783319637921>). His textbook of linear Algebra has been featured in 2019 as among the top 25% most downloaded eBooks.

For additional information see:

https://www.sharjah.ac.ae/en/academics/Colleges/Sciences/dept/math/Pages/pp1_detail.aspx?mcid=26&pplid=&clt=en

Dr. Zahid Raza

Dr. Zahid Raza is an Associate Professor in the Department of Mathematics at University of Sharjah as a faculty member since 2015. He completed his Ph.D. at Government College University Lahore, Pakistan, MSc. and BSc. at University of Punjab, Pakistan. He competitively won his Postdoc fellowship from the Institute of Mathematics Academy of sciences of the Republic Czech. He is a member of Modeling Analysis and Simulation of Some Evolutionary Phenomena (MASEP) research group and a researcher in RISE.

His research interests are in the area(s) of Chemical Graph Theory, Extremal/Spectral Graph Theory, Computational Mathematical Chemistry, Topological Indices/Descriptors of molecular/chemical graphs. He actively works on multidisciplinary problems and collaborates with researchers from different disciplines around the globe. He was the chair of the organizing committee of two internal scientific events namely: 15th UAE Math Day (2017) and 2st International Mathematics Spring School (2019).

Dr. Zahid has supervised postgraduate research students (25 M.Phil and 4 P.h.D) to successful completion. His research achievements include: 80 journal publications, with 555 google citations and an H-index of 14. He secured over 135k AED in research grants.

For additional information see:

https://www.sharjah.ac.ae/en/academics/Colleges/Sciences/dept/math/Pages/pp_l.aspx



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