

1st International Workshop on Functional Reverse Engineering of Machine Tools (WRE 2018)

12th and 13th January, 2019

Program

Saturday, 12th January 2019

Arrival & Registration

	Schedule	Venue
Registration and badges/bags collection	08:00 AM to 09:00 AM	

Inauguration Ceremony

Inauguration Session	Schedule	Venue
Participants and guests to be seated	09:15 AM	AHA Auditorium
Arrival of Chief Guest at AHA Auditorium	09:30 AM	
Recitation from the Holy Qur'an	09:35 AM	
National Anthem	09:40 AM	
Welcome Address by General Chair	09:45 AM	
Keynote Talk: Promoting Enterprises of Reverse Engineering – <u>Dr. Cedric Aimal Edwin</u> , GIK Institute, Pakistan	09:55 AM	
Address by Chair IEEE Islamabad Section	10:15 AM	
Address by Chair IMechE Pakistan Group	10:25 AM	
Address by Chief Guest	10:35 AM	
Presentation of Shields to Chairs by Chief Guest	10:45 AM	
Presentation of Shield to Chief Guest by Pro-Rector (Academic)	10:50 AM	

Saturday, 12th January, 2019

Tea Break

	Schedule	Venue
Tea and refreshments for guests	11:15 AM to 11:50 AM	Guest House
Tea for registered participants		GIKafe

Parallel Technical Session 1: Industry 4.0

Session Chairs: Dr. Muhammad Ilyas and Dr. Khalid Rehman

Chapter/Invited Talk Title	Author/ <u>Speaker</u> & Affiliation	Schedule	Venue
Invited Talk 1: High efficiency grinding hard-to-machine materials	<u>Prof. Dr. Fu Yucan</u> Nanjing University of Aeronautics & Astronautics, China	12:00 PM to 12:30 PM	Seminar Hall, MGS
A Smart Micro Factory Design: An Integrated Approach	<u>Mr. Syed Osama bin Islam,</u> Capital University of Science & Technology, Pakistan	12:30 PM to 1:00 PM	
National Communication Infrastructure (nci) for Future Network Technologies and Industry 4/5.0 – Challenges and Opportunities	<u>Prof. Dr. Javed I. Khan,</u> Kent University, USA	1:00 PM to 1:30 PM	

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Parallel Technical Session 2: Computer Software and Hardware

Session Chairs: Dr. Yasar Ayaz and Dr. Arshad Islam

Chapter/Invited Talk Title	Author/ <u>Speaker</u> & Affiliation	Schedule	Venue
Invited Talk 2: Building Resilient Cyber-Physical Systems (CSP)	<u>Prof. Dr. Abbas K. Zaidi</u> George Mason University, USA	12:00 PM to 12:30 PM	Main Hall, The Catalyst
Microprocessors and Microcontrollers: Past, Present and Future	<u>Dr. M. Faisal Khan</u> , Hamdard University, Pakistan	12:30 PM to 1:00 PM	
Modular approach of Writing MATLAB Code for a Markov Decision Process	<u>Dr. Ali Nasir</u> , University of Central Punjab, Pakistan	1:00 PM to 1:30 PM	

Lunch & Prayer Break

	Schedule	Venue
Lunch for guests	1:30 PM to 2:30 PM	Faculty Club
Prayer break for guests	2:30 PM to 3:00 PM	Faculty Club
Lunch & prayer break for participants	1:30 PM to 3:00 PM	Central Mess/Students' mosque

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Parallel Technical Session 3: Additive Manufacturing

Session Chairs: Dr. Khalid Rehman and Dr. Ghulam Abbas

Chapter/Invited Talk Title	Author/ <u>Speaker</u> & Affiliation	Schedule	Venue
Invited Talk 3: Using Additive Manufacturing for Design and Optimization of Wind Turbines For Low Wind Speed Environments (Over Skype)	<u>Dr. Adeel Khalid</u> , Kennesaw State University, USA	3:00 PM to 3:30 PM	Seminar Hall, MGS
Design of multi-DOF micro feed platform based on hybrid compliant mechanism	<u>Dr. Jianqiang Huo</u> , Nanjing University of Aeronautics and Astronautics, China	3:30 PM to 4:00 PM	
Investigation on dynamic prediction of tool wear based on machine vision and support vector machine	<u>Dr. Chen Zhang</u> , Nanjing University of Aeronautics and Astronautics, China	4:00 PM to 4:30 PM	

Parallel Technical Session 4: Smart Remanufacturing and Surface Repairing

Session Chairs: Dr. Khalid Khan and Dr. Ghulam Hussain

Chapter/Invited Talk Title	Author/ <u>Speaker</u> & Affiliation	Schedule	Venue
Invited Talk 4: Is Smart Remanufacturing a Tautology? (Over Skype)	<u>Prof. Duc Pham OBE</u> , University of Birmingham, UK	3:00 PM to 3:30 PM	Main Hall, The Catalyst
The Convex Hull of two closed Implicit Surfaces	<u>Dr. Xiaoping Wang</u> , Nanjing University of Aeronautics and Astronautics, Nanjing, China	3:30 PM to 4:00 PM	
Manufacturing, remanufacturing and surface repairing of various machine tool components using laser assisted directed energy deposition	<u>Dr. Muhammad Iqbal</u> , Universiti Brunei Darussalam, Brunei	4:00 PM to 4:30 PM	

Saturday, 12th January, 2019

Tea Break

	Schedule	Venue
Tea and refreshments for guests	4:30 PM to 4:55 PM	MGS/ The Catalyst

Parallel Technical Session 5: In-Process Measurements

Session Chairs: Dr. Sohail Malik and Dr. Khalid Rehman

Chapter/Invited Talk Title	Author/ <u>Speaker</u> & Affiliation	Schedule	Venue
Invited Talk 5: Data dissemination in VANETs: from urban vehicles to drones (on Skype)	<u>Dr. Saadi Boudjit</u> , University of Paris 13, France	5:00 PM to 5:30 PM	Seminar Hall, MGS
Reverse engineering of titanium to form TiO ₂ for humidity sensor applications	<u>Mr. Linchao Sun</u> Nanjing University of Aeronautics and Astronautics, China	5:30 PM to 6:00 PM	
In-process Measurement in Manufacturing Processes	<u>Dr. Muftooh Ur Rehman Siddiqi</u> , CECOS University, Pakistan	6:00 PM to 6:30 PM	

Parallel Technical Session 6: Automotive Industry

Session Chairs: Dr. Zahid Halim and Dr. Ghulam Abbas

Chapter/Invited Talk Title	Author/ <u>Speaker</u> & Affiliation	Schedule	Venue
Invited Talk 6: Do you know who you are?	<u>Dr. Zahid Halim</u> GIK Institute, Pakistan	5:00 PM to 5:30 PM	Main Hall, The Catalyst
Integrating Sustainable Supply Chain in Automotive Industry Using Fuzzy VIKOR	Dr. Yousaf Ali, GIK Institute, Pakistan	5:30 PM to 6:00 PM	
Selection of Sensors, Transducers, and Actuators	<u>Dr. Memoon Sajid</u> , COMSAT, Pakistan and Jeju National University, South Korea	6:00 PM to 6:30 PM	

Saturday, 12th January, 2019

Workshop Gala Dinner

	Schedule	Venue
Gala Dinner for guests, Deans/Directors/Associate Professors and above	7:30 PM to 9:30 PM	Faculty Club
Dinner for participants		Central Mess

Sunday, 13th January, 2019

Arrival & Registration

	Schedule	Venue
Arrival of participants	08:30 AM	MGS
Registration and badges/bags collection	08:30 AM to 09:30 AM	

Parallel Technical Session 7: Systems Engineering

Session Chairs: Dr. Ziaul Haq Abbas and Dr. Ghulam Abbas

Chapter/Invited Talk Title	Author/ <u>Speaker</u> & Affiliation	Schedule	Venue
Invited Talk 7: Artificial Immune System and Applications	<u>Prof. Dr. M. Tahir Khan</u> , UET Peshawar, Pakistan	9:30 AM to 10:00 AM	Seminar Hall, MGS
Model-based system Engineering for complex systems	<u>Dr. Chien-Chung Huang</u> , George Mason University, USA	10:00 AM to 10:30 AM	

Sunday, 13th January, 2019

Parallel Technical Session 8: Engineering Design

Session Chairs: Prof. Dr. Muhammad Abid and Dr. Ghulam Hussain

Chapter/Invited Talk Title	Author/ <u>Speaker</u> & Affiliation	Schedule	Venue
Invited Talk 8: Identifying Collaborative opportunities towards PBL, VIP and Partnership Building in Engineering Education	<u>Prof. Dr. B. S. Chowdary</u> , Mehran UET, Pakistan	9:30 AM to 10:00 AM	Main Hall, The Catalyst
Metal forming presses: Technology, Structure and Engineering Design	<u>Dr. Volkan Esat</u> , Middle East Technical University, Turkey	10:00 AM to 10:30 AM	

Tea Break

	Schedule	Venue
Tea and refreshments/ Arrival of Chief guest	10:45 AM to 11:30 AM	Guest House
Tea for registered participants		GIKafe

Sunday, 13th January, 2019

Closing Ceremony

Closing Session	Schedule	Venue
Participants and guests to be seated	11:45 AM	AHA Auditorium
Arrival of Chief Guest at AHA Auditorium	12:00 PM	
Recitation from the Holy Qur'an	12:05 PM	
Keynote Talk: Focus towards Mission Oriented Research to Benefit Pakistan, <u>Prof. Dr. Muhammad Abid</u> , Director Interdisciplinary Research Center, COMSATS, Pakistan.	12:10 PM	
Closing Address by General Chair/Rector	12:30 PM	
Best Chapter Awards distribution by Chief Guest	12:40 PM	
Presentation of Shields to Editors by Chief Guest	12:50 PM	
Address by Chief Guest	01:00 PM	
Presentation of Shields to Chief Guest by Pro-Rector (Academic)	01:20 PM	

Lunch & Prayer Break

	Schedule	Venue
Lunch for guests	1:30 PM to 2:00 PM	Faculty Club
Prayer break for guests	2:00 PM to 2:30 PM	Faculty Club
Lunch & prayer break for participants	1:30 PM to 2:30 PM	Central Mess/ Students' mosque

Departure of Participants

	Schedule	Venue
Departure of Participants to Peshawar/Islamabad/Mardan	2:30 PM	Central Mess