Confirmed Invited Speakers (DICE-IET 2017)

Following is the list of honourable speakers both from academia and industry who have been kind enough to accept our invitation to share their experiences, innovations, and research findings on DICE-IET'17 platform.

Name	Topic & Abstract	
Dr. Naveed Arshad	Title: A Look at the Possibility of 100% Electricity from	Academia
Associate Professor	Renewable Sources in Pakistan	
Department Of Computer Sciences	Abstract: Energy experts from around the world have	
LUMS	widely debated on the possibility of moving to a 100%	
	renewable-based energy system. While experts argue	
	on the practicality of this idea with currently available	
	technology, almost all experts agree that slowly moving	
	towards a complete renewable-based energy system is	
	the right strategy for a sustainable future for this	
	planet. Pakistan is one of ten countries that are most	
	vulnerable to the effects of climate change. While our	
	emissions account for less than one percent of the	
	world, with increasing population and industrialization,	
	they are expected to quadruple over the next decade.	
	In this talk, we will look at the possibility of moving	
	Pakistan to 100% renewable based electricity	
	generation. Starting with the electricity needs of	
	Pakistan in the near and distant future, we will look at	
	possible generation mix of Solar, Wind, Hydro, Nuclear,	
	Biomass/Bio-waste and Stored Hydro in the country.	
	We will also explore the opportunities of	
	supplementing the generation with better demand side	
	management, soft load shedding, energy efficiency,	
	large scale virtual energy storage, energy sharing and	
	others to achieve the goal of using electricity with	
	100% renewable sources.	
Dr. Bilal Wajid	Title: Developing Diagnostic tests and Probiotic	Academia
Assistant Professor	<u>therapies</u>	
University of Engineering and	Abstract: Together with Dr. Jan Suchodolski from	
Technology, Pakistan.	Gastrointestinal laboratory, Texas A&M University and	
	Dr. Mustafa K. AlShawaqfeh from German Jordanian	
	University (GJU) we employed qPCR assays and a	
	mathematical algorithm to develop a dysbiosis index	
	(DI). Fecal DNA from 95 healthy dogs and 106 dogs with	
	histologically confirmed Chronic Inflammatory	
	Enteropathies were analyzed. Samples were grouped	
	into a training set and a validation set. Various	
	mathematical models and combination of qPCR assays	
	were evaluated to find a model with highest	
	discriminatory power. The final qPCR panel consisted of	
	eight bacterial groups and for a threshold of 0, the DI	

	achieved 74% sensitivity and 95% specificity to	
	separate healthy and CE dogs. Moreover, our team is	
	geared towards developing a probiotic therapy capable	
	of replacing artificial fecal transplant therapy for	
	Inflammatory Powel Disease (IPD). By using a wide	
	nonulation of cate and does (good models for human	
	population of cats and dogs (good models for human	
	IBD) and via employing graphical models our research	
	has shown promising results; identifying communities	
	of microbes and	
	metabolites needed for a cure. Moreover, this effort is	
	directed at developing a line of health related products	
	aiming to sustain a healthy blend of probiotics and	
	necessary metabolites in the diet.	
Dr Amir Iqbal Bhatti	Title: Building a World-Class Research Group in	Academia
Professor	Controls & Signal Processing in Pakistan: The Story of	
Capital University of Science &	CASPR	
Technology, Pakistan.	Abstract: Controls and Signal Processing Research	
	(CASPR) Group (caspr.com.pk) at Capital University of	
	Science and Technology is a dynamic and vibrant	
	research group, working in the areas of control	
	systems, automotive systems and radar signal	
	processing. The group originated in CASE nearly ten	
	years ago. Though, physically the group moved to	
	linnah University, but CASPR concept is not confined to	
	a single university. The group members belong to the	
	various institutions of the region. The synergy present	
	in the group has given rise to a long series of	
	international nublications. PhD graduates and research	
	projects The talk not only covers the accomplishments	
	of the group, it also explains in detail various research	
	of the group, it also explains in detail various research	
	Initiatives taken by CASPR. It is satisfactorily observed	
	that the genesis and growth of CASPR is an absolutely	
	Pakistani phenomenon, on which Pakistanican be	
	proud of.	
Prof. Dr. Abdul Jalil	<u>Title: Visual Object Tracking</u>	Academia
Professor	Abstract: Visual Object Tracking (VOT) is an important	
International Islamic University,	field of computer vision. Its purpose is to find the locus	
Pakistan.	of targets of interest (Tol) in the image plane. VOT has	
	a number of applications in many fields of technology,	
	e.g., surveillance, medical, robotics, human computer	
	interaction, traffic control, augmented reality,	
	multimedia, etc. With ubiquitously available camera	
	resource, community of computer vision has been	
	expanded and VOT challenge happens every year to	
	test the best algorithm to cater for different issues in	
	VOT such as occlusion, clutter, changing target size and	
	appearance, real time, noise, etc. Depending upon the	
	methodology, i.e., discriminative or generative, VOT	

	may be considered either classification or search problem. Although a lot of work have been published in the field of VOT, but still a long way is ahead as not a single tracker exists which handles all the real time	
	problems.	
Dr. Fayyaz Minhas Assistant Professor PIEAS Pakistan	Title: Learning computing of the future Abstract: Computing is a young field and an quickly evolving one as well. In this talk, a number of different emerging technologies related to computing and their impact on the overall field and the world will be discussed ranging from electronic cars and bioinformatics to quantum computing and deep learning. The main objective is to give students, faculty and industry a peek into the future so that Pakistan should be ready to take on these challenges.	Academia
Prof. Dr. Andrew Ware Professor University of SouthWales, UK	Title: Learning for Data Abstract: Machine learning, data mining, and predictive analytics are all terms that can be used to mean the same thing. In essence they refer to the use of relatively powerful computers to work through large volumes of data, which can be diverse in nature, in order to detect hitherto hidden patterns and correlations that can, in many cases, be used to predict future patterns and correlations. Usually these predictions are at the micro rather than the macro level of activity. For example, the aim of deploying the techniques might be to predict whether a particular individual will develop a certain disease, buy a particular product, or like a certain type of music. These micro level predictions contrast to macro level predictions that are more likely to try and determine such things as the percentage of people that will develop a certain disease, buy a particular product, or like a certain type of music. The techniques are having an increasingly profound impact on the way businesses, healthcare providers, and all manner of other entities are going about their daily business. The talk will investigate some of the predominant paradigms associated with the subject and highlight the strengths and weaknesses that they possess. Success stories will be examined and failures analysed. In short, the aim will be to help those interested in the subject plot a path that helps ensure that the useful nuggets of information hidden deeply within data are located and	
Dr. Fan Zhang	Title: Implementation of Real Time Processing	Academia

IBM	Pipelines for Big Data Analytic Applications	
USA	Abstract: "Big data" and "data deluge" have been	
	emerging as major challenges for scientific computing.	
	Healthcare scientific applications, such as body area	
	network, require of deploying hundreds of	
	interconnected sensors to monitor the health status of	
	a host. As another example, the Laser Interferometer	
	Gravitational-wave Observatory (LIGO) sites daily	
	collect more than Terabyte data from thousands of	
	distributed sensors for real time processing. Follow-up	
	data analysis would normally involve moving the	
	collected big data to a cloud data center. Therefore, an	
	efficient cloud platform with very elastic scaling	
	capacity is needed to support such kind of real time	
	streaming data applications.	
	In this talk, I will present a series of on-going big-data	
	projects I have been involved in. As a start, I will talk	
	about an analysis pipeline for close to real-time	
	identification of transient, non-Gaussian noise artifacts	
	 glitches, in our Gravitational-Wave detection project. 	
	In particular, I will show how multivariate classifiers,	
	e.g. Artificial Neural Network, Random Forest and	
	Support Vector Machine, are used to identify the	
	glitches. After that, I will introduce my experience of	
	leveraging high throughput computing tools, such as	
	Condor and Hadoop MapReduce to harness the	
	computing capability up to hundreds of cloud	
	instances. Specifically, a task-level adaptive	
	MapReduce simulator will be introduced to process	
	streaming big data. Finally, I will report how the	
	workflow pipelines and output data are interactively	
	presented and visualized in the projects.	
Dr. Akhtar Ali	Title: Clinical information systems: the backbone of	Academia
University of Northumbria,	healthcare services	
UK	Abstract: Information systems have drastically changed	
	the world we live in and most of us have experienced	
	and benefited from these systems one way or another,	
	e.g., flights booking, online banking, online shopping	
	and ordering, bank accounts management, library	
	management system, NADRA ID card application,	
	Passport applications and renewals, etc. However,	
	there is a category of information systems, which has	
	not been fully exploited and adopted in Pakistan, i.e.,	
	clinical information systems (CIS). In most developed	
	countries, CIS play a central role in the commissioning	
	and delivery of healthcare services from a patient	
	registration, to consultations with a Doctor or Nurse,	
	prescription of medications to diagnoses and care	

	planning, etc.	
	This talk will outline what are CIS. examples of CIS used	
	within NHS England, why are they important, how can	
	they facilitate in a systematic and streamlined delivery	
	of a whole host of healthcare services and what are the	
	opportunities for public and private sector for research	
	and development in this area	
Dr. Arif Mehmood	Title: Background Modelling and Moving Objects	Academia
Post-doc Researcher	Detection	
Oatar University	Abstract: Background estimation and moving objects	
Quital Oniversity,	detection are important steps in many high-level vision	
	tasks. Many existing methods estimate background as a	
	low-rank component and moving objects as a snarse	
	matrix without incorporating structural information	
	Therefore these algorithms exhibit degraded	
	nerformance in the presence of dynamic backgrounds	
	nhotometric variations litter shadows and large	
	occlusions. We observe that these backgrounds often	
	snan multiple manifolds. Therefore, constraints that	
	ansure continuity on those manifolds will result in	
	better background estimation. Hence we propose to	
	incorporate the spatial and temporal sparse subspace	
	clustering into the reduct principal component analysis	
	(BDCA) framework. To that and we compute a spatial	
	(RPCA) framework. To that end, we compute a spatial	
	and temporal graph for a given sequence using motion-	
	aware correlation coefficient. The information captured	
	by both graphs is utilised by estimating the proximity	
	matrices using both the normalized Euclidean and	
	geodesic distances. The low-rank component must be	
	able to efficiently partition the spatiotemporal graphs	
	Using these Laplacian matrices. Embedded with the	
	RPCA objective function, these Laplacian matrices	
	constrain the background model to be spatially and	
	temporally consistent, both on linear and nonlinear	
	manifolds. The solution of the proposed objective	
	function is computed by using the linearised alternating	
	direction method with adaptive penalty optimization	
	scheme. Experiments are performed on challenging	
	sequences from five publicly available datasets and are	
	compared with the 23 existing state-of-the-art	
	methods. The results demonstrate excellent	
	performance of the proposed algorithm for both the	
	background estimation and foreground segmentation.	
Dr. Murtaza Tai	Title: Various technology interventions performed in	Academia
DI. WUItdZd Idj	nue: various technology interventions performed in	
	to improve government organization	
	to improve governance and service delivery to citizens	
Pakistan	Abstract: Focus of my talk would be on bridging the gap	

	between academia, industry and government. More	
	specifically I would be talking about various technology	
	interventions that we performed in partnership with	
	NGOs and government organization to improve	
	governance and service delivery to citizens.	
Dr. Mohsen Ali	Title: Deconstructive Learning	Academia
Assistant Professor	Abstract: We introduced the novel notion of	
ITU	deconstructive learning and proposed a practical	
Pakistan	computational framework for deconstructing a broad	
	class of binary classifiers commonly used in computer	
	vision applications. While the ultimate objective of	
	most learning problems is the determination of	
	classifiers from labeled training data, for	
	deconstructive learning, the objects of study are the	
	classifiers themselves. As its name suggests, the goal	
	of deconstructive learning is to deconstruct a given	
	classifier by determining and characterizing (as much	
	as possible) the full extent of its capability, revealing	
	all of its powers, subtleties and limitations. In	
	particular, this problem is motivated by the seemingly	
	innocuous question that given an image-based binary	
	classifier C as a black-box oracle, how much can we	
	learn of its internal working by simply querying it?	
		Acadomia
Dr. Muhammad Khurram Shehzad	Title: Business Process Automation in the Fourth	Academia
Dr. Muhammad Khurram Shehzad Assistant Professor,	Title: Business Process Automation in the Fourth Industrial Revolution	Academia
Dr. Muhammad Khurram Shehzad Assistant Professor, PUCIT,	<u>Title: Business Process Automation in the Fourth</u> <u>Industrial Revolution</u> Abstract: The Fourth Industrial Revolution (4IR)	Academia
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	order of things." ~ Machiavelli Engineers are always involved in projects, either as designers, team members or project leaders. Being invoiced in technical activities, there is a general lack of knowledge about the benefits of a formal project management. It would codify the work done while leading projects over their careers and be useful in future career transitions.	
	True engineering is managing man, money and machines.	
	Every engineer is a Project Manager.	
Mr. Sufian Saeed	Title: Future of Money & Banking Trends in Digital	Industry
Head - Digital Banking & ADCs at MCB Islamic Bank Limited	World. Abstract: • The Future of Money • Factors Signaling Change • Importance of Digitization • Cultural Pulse • Banking Trends in Digital World • State of the Financial Industry • The Digital Disruption; Fintech & Banks	Industry
Mr. Usman Parez Solution Delivery Manager Intech Process Automation Pakistan	Title: Industrial IoT and Computer Sciences	Industry
Mr. Kamran Shahid COO XGear Pakistan	Title: Entrepreneurship - Why and How?	Industry
Mr. Bilal Siddique CEO Convincing Solutions Pakistan	Title: Open source BPM and ERP for local industry	Industry