



BUIITEMS

Quality & Excellence in Education

ISO 9001-2008 certified

www.buitms.edu.pk

UAN: 081- 111-717-111



Name		Abdul Samad		
Designation		Assistant professor		
Department		Computer science		
Faculty		FICT		
E-mail address		Official	Abdul.samad1@buitms.edu	
		Personal	Asamad.khan@yahoo.com	
Telephone Number		Office Extension	081-111-717-111 (676)	
		Mobile	0321-8108946	
Qualification				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
2013	PhD	University of Georgia, USA.	Computer science	
	MS/ Mphil	Note: degree was MS-leading to PHD		
2006	Graduation	BUIITEMS	Computer Science	
Publications in HEC Recognized journals				
S. No	Title of Paper	Name of Journal	National/ International	Publication date
	Finding maximum spanning k-tree on the back bone graph	In process		
	Counting spanning 2-trees	In process		
	Neural networks and malaria	In process		
Paper Presented				
S. No	Title of Paper	Name of Conference	National/ International	Date
1	Stochastic k-Tree Grammar and Its Application in Biomolecular Structure Modeling.	LATA 2014	International	March 10-14, 2014
2	Polynomial kernels collapse the W-hierarchy	arxiv	International	August 2013
3	Ab initio Prediction of RNA Nucleotide Interactions with Backbone k-Tree Model	CMRS'14 (accepted)	International	September 7-10 1014
4	Introduction to Face Detection Using Eigenfaces	IEEE-ICET 2006	International	September 2006
5	Secure end user data storage model for cloud computing (submitted)	IEEE-FIT	International	Dec 2014
6	Malaria disease detection using classification	In process		

Books Authored/ Edited				
S. No	Name of book	Publisher	ISBN	
Work Experience				
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1	Sept 2013	Continuous		Assistant professor
2	Sept 2006	Dec 2008	BUIITEMS	Lecturer
Area of specialization		Algorithm design, machine learning, data mining		
Expertise				
HEC Approved supervisor		No		
If Yes, provide HEC URL		<i>e.g.</i> http://sc.hec.gov.pk/aplds/		
Research grants/ Projects				
Additional Information				
<p>I am interested in algorithm design, computational complexity analysis, and theory of computation with applications in bioinformatics, particularly designing efficient parameterized algorithms based on techniques in algorithmic graph theory. For example, the notion of tree width offers a non-conventional metric for graph exploration; the technique of tree decomposition makes it possible to achieve high efficiency in computing many high profile graph-theoretic problems that are of important applications. I was part of RNA-INFORMATICS lab at UGA. In my Ph.D dissertation I modeled the biomolecular structure prediction problem as finding the maximum spanning k-tree on the backbone graphs, where the backbone graphs are characterized by a linear sequence of the vertices and k-trees are class of graph with bounded tree width. However, most of the traditional methods are not powerful to search through the huge conformation space. My dissertation provided an efficient model for this purpose. I am also working on the applications of data mining and machine learning in health, medical, social and educational data.</p>				