7th Global Meet on
Wireless, Aerospace & Satellite Communications
February 12-13, 2020 | Paris, France



Identification and countermeasure of the system vulnerabilities to enhance the business trends

Prof. Dr. Khalid Hussain
Dean Faculty of Computing
Barani Institute of Sciences Sahiwal, ARID Agriculture University Rawalpindi
Email: dr.khalid@baraniinstitute.edu.pk

During the last 15 years, developed and under developed countries has undergone extreme transformations concerning population and economic conditions. As a virus's country with more people living in high-risk areas than ever before, it is increasingly essential to pro-actively address natural and human-made viruses, malware, and ransomware and the cumulative risks that they pose at multiple spatial and temporal scales. In recent years, Pakistan has been hit by a series of natural disasters. In October 2005, there was a 7.6 magnitude and earthquake in 2010, 2011, and 2012 there was severe flooding. Whereas data disasters is also one the hidden elements which plays a vital role to disturb the economic position of a county. Other developed countries specially Pakistan that up to 2nd March 2019 has researched at considerable position in data loss in business environment. In which figures, 31% due to hardware or system failure, 29% lost data due to human error, 29% due to this financial damage caused by a data breach up to a loss of $3.86 million.

To establishing the confidence of the investor, UK government announced a £1.9 billion research funding to investigate and identified the vulnerabilities in small, medium and large level organizations. But in 2016 they faced a huge data lose up to £1.3 Million (reported in 2016 survey report). In the continuation of this study other developed countries are also conducting this survey and investing a bearable funding to conduct this research.

In the light of these facts of figures, we have established a research group which will follow the same road map followed by Dr. Rabbica in UK. But in the initial phase we may consider one domain specifically, Healthcare organizations, which had the highest costs associated with lost or stolen records at $408 Million. The objective of the study is to identify the vulnerabilities and fixed them with appropriate soft solutions. The proposed solution will be helpful for the other relevant industries as well.

Biography

Professor Dr. Khalid Hussain is working as Professor and Dean Faculty of Computing, Barani Institute of Sciences Sahiwal and in parallel he is working as Campus Director in Burewla Campus for the last one and half years. Dr. Khalid has vast university / industry experience. During his tenure in the industry, he served in the defense related projects and in recognition of his services, he has been awarded commendation certificates by multiple government agencies.

He joined academia in 2008 as full time faculty member. In addition to his teaching role, he has been involved in numerous research projects. He help setup a pioneer setup for information/ network security certification in Pakistan. He also introduced EC Council certification under the first academia industry partnership. That project started from a one room office and has grown into a fully functional campus of RIPHAH University.

He did his PhD from Malaysia, under a fully funded UTM / HEC scholarship. Up till now he published 63 papers. In which 27 are ISI Indexed Impact Factor, 13 are in HEC approved journal and 23 are in IEEE and ACM conferences. Except this he also has a book chapter and one book with the title “Information Security Handbook” is going to publish in couple of months. He has successfully completed six applied research project in the domain of Information Security funded by NESCOM. Up till now 37 MS students completed his research thesis under his supervision. Currently he is supervising 13 MS and five PhD student in which one PhD is completing within couple of month.

In reward of his contribution towards Information Security SATHA awarded him Gold Medal in 2015.

Presenting author details

Full name: Prof. Dr. Khalid Hussain
Contact number: +92 333 5889158
Email id: dr.khalid@baraniinstitute.edu.pk
Category: (Oral presentation/ Poster presentation)
Session name:
Research interest: Cyber Security