Cyber Security in SLAF: Behavioural Approach

HMLS Lankathilake

Sri Lanka Air Force
sameeralankathilake@gmail.com

Cybersecurity is not a novel concept for Sri Lanka Air Force (SLAF) as it initiated measures from the year 2000. However, SLAF is under eminent threat for information security in vulnerable cyberspace and there is a higher chance for the SLAF to be victimised as the next service organisation. Cyber-attacks are focusing on individual users of the webmail and there is a need to find the specific characteristics of the individuals being targeted prior to causing a great damage to SLAF. The main objective of the study is to find out the factors leading to cyber-attacks in SLAF and to propose feasible damage control measures to mitigate future threats. This paper was developed from a positivist philosophy, treating the use of statistical, experimental and other numerical data to describe the actions and phenomena observed and the correlations and interactions between them. It also uses the deductive approach to hypothetically test the theory and correlation of variables. Counterproductive computer use is a concept evolved and mismanaging of incoming mail could fall under the counter productive work behaviour, and that is the research interest of this paper. However, response to an unknown e-mail could be influenced by several factors and the researcher focused on cybersecurity awareness, negligence, emotional stability and computer literacy. Cybersecurity index was calculated with percentage of spam emails filtered through the spam server and mails go beyond that. Cybersecurity awareness and emotional stability were positively correlated with the respond behaviour while the correlations of negligence and computer literacy were not significant. Respondent behaviour and cybersecurity index were negatively correlated significantly. Since there is a valid relation between cybersecurity awareness and emotional stability to the cybersecurity index, it is essential to take necessary precautionary measures like introducing an awareness programme, to test on Emotional Stability and to treat accordingly.

Keywords: Cybersecurity, Computer Literacy, Emotional Stability, Negligence, Respond Behaviour