



Fellow	Mazaher Kianpour
Host Organisation	RISE Research Institutes of Sweden
Scientific coordinator	Shahid Raza



I – SCIENTIFIC ACTIVITY DURING YOUR FELLOWSHIP

During the fellowship, the research fellow primarily concentrated on examining the regulatory risks associated with cybersecurity. Initially, a thorough study was conducted to identify the key factors and consequences of cybersecurity-related regulatory risks. This phase involved developing an economic model to assess how investments in cybersecurity are influenced by regulatory changes. The results and insights from this research were compiled in a paper titled “More than Malware: Unmasking the Hidden Risks of Cybersecurity Regulations.”

Subsequently, the fellow worked on creating a framework for evaluating the risks associated with evolving landscape of cybersecurity regulations. This framework, which utilizes advanced statistical methods, allows organizations to quantitatively assess regulatory risks, aiding in more informed decision-making. To ensure the framework's rigor and relevance, a case study was conducted for practical testing and refinement. Through these case studies, the fellow was able to demonstrate the framework's utility in real-world scenarios, highlighting its ability to aid organizations in navigating the complex landscape of cybersecurity regulations. The results of this research will be published in a paper titled “A Reference Model for Quantification of Regulatory Risks Associated with Cybersecurity”.

In this domain, the research fellow authored a science report titled “Balancing Act: Navigating Cybersecurity and Regulatory Risks in an Evolving Compliance Landscape”. The report's objective is to simplify and elucidate the complex interplay between cybersecurity measures and regulatory compliance. It seeks to provide practical guidance for organizations striving to balance robust cybersecurity protocols with evolving regulatory requirements. This publication has been designed to be informative for both industry professionals and the public aiming to increase awareness and understanding of this critical topic.

Alongside this focus, the research fellow initiated a joint research project with another department at RISE, concentrating on the role of simulations in cybersecurity decision-making. This collaboration was timely, considering the growing reliance on simulations within the cybersecurity field. The research provides a comprehensive analysis of how simulations are employed in decision-making processes, emphasizing both their significant potential and the complexities they introduce. This study offers valuable insights into the broader context of risk management in cybersecurity, delving into the benefits and limitations of using simulations as a tool for strategizing and predicting cybersecurity threats and responses and making policies. The findings of this research are compiled in a paper submitted to the journal of Cybersecurity.

Furthermore, this period of fellowship provided the research fellow with the opportunity to actively participate in collaborative initiatives with multiple universities. These partnerships were focused on developing research proposals, with the objective of securing funding for future studies. The tenure of the fellowship not only enabled the researcher to expand his professional network but also provided a unique opportunity to establish meaningful collaborations.



II – PUBLICATION(S) DURING YOUR FELLOWSHIP

- Mazaher Kianpour and Shahid Raza “More Than Malware: Unmasking the Hidden Risk of Cybersecurity Regulations” International Cybersecurity Law Review (Accepted)
- Mazaher Kianpour and Shahid Raza “A Reference Model for Quantification of Regulatory Risks Associated with Cybersecurity” (Manuscript)
- Mazaher Kianpour and Ulrik Franke “The use of simulations in cybersecurity decision-making”, Journal of Cybersecurity (Under Review)

III – ATTENDED SEMINARS, WORKHOPS, CONFERENCES

The research fellow has enrolled in multiple online courses and their exams focusing on practical risk management, compliance, and governance. These courses equip the fellow with essential practical skills that are crucial for conducting high-quality and applied research.

IV – RESEARCH EXCHANGE PROGRAMME (REP)

During the fellowship period, the research fellow did not participate in any research exchange programs.