

Cybersecurity Challenges in Africa

Authors : Chimmoe Fomo Michelle Larissa

Abstract : The challenges of cybersecurity in Africa are increasingly significant as the continent undergoes rapid digital transformation. With the rise of internet connectivity, mobile phone usage, and digital financial services, Africa faces unique cybersecurity threats. The significance of this study lies in understanding these threats and the multifaceted challenges that hinder effective cybersecurity measures across the continent. The methodologies employed in this study include a comprehensive analysis of existing cybersecurity frameworks in various African countries, surveys of key stakeholders in the digital ecosystem, and case studies of cybersecurity incidents. These methodologies aim to provide a detailed understanding of the current cybersecurity landscape, identify gaps in existing policies, and evaluate the effectiveness of implemented security measures. Major findings of the study indicate that Africa faces numerous cybersecurity challenges, including inadequate regulatory frameworks, insufficient cybersecurity awareness, and a shortage of skilled professionals. Additionally, the prevalence of cybercrime, such as financial fraud, data breaches, and ransomware attacks, exacerbates the situation. The study also highlights the role of international cooperation and regional collaboration in addressing these challenges and improving overall cybersecurity resilience. In conclusion, addressing cybersecurity challenges in Africa requires a multifaceted approach that involves strengthening regulatory frameworks, enhancing public awareness, and investing in cybersecurity education and training. The study underscores the importance of regional and international collaboration in building a robust cybersecurity infrastructure capable of mitigating the risks associated with the continent's digital growth.

Keywords : Africa, cybersecurity, challenges, digital infrastructure, cybercrime

Conference Title : ICCSPS 2024 : International Conference on Computer Science, Programming and Security

Conference Location : Rome, Italy

Conference Dates : August 22-23, 2024