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Cyber security vs. information security

This economics course introduces cybersecurity through a framework of economic principles. Delivered by four leading research groups, it gives you economic concepts, measurement methods and data analysis to make better security and IT decisions and understand the forces that shape security decisions of other actors in the information goods and services ecosystem. Systems often fail because the organizations that protect them do not bear all the costs of failure. In order to address the vulnerability of computer hackers and the problems of rising crime, solutions must consistently separate responsibilities and responsibilities so that the parties who have managed to solve problems have an incentive to do so. This requires a technical understanding of security threats, along with an economic perspective, to expose the strategies of cyber hackers, attackers and defenders. The course covers five main areas: an introduction to the basic concepts of the security economy. Here we give an overview of how information security is shaped by economic mechanisms such as improperly regulated incentives, information asymmetry and externalities. Cybersecurity measurement. Introducing state-of-the-art security and IT metrics and conceptualizing the characteristics, challenges, and benefits of a security metric. Economics of information security investments. We discuss and implement different economic models that help determine the costs and benefits of security investments in network security. Security market failures. We are discussing market failures that can lead to a level of cybersecurity investment that is inadequate from a societal point of view and that behaviour in cyberspace is different. Behavioural economics of information security, policy and regulation. We are discussing existing economic tools to better harmonise cybersecurity incentives, including better security metrics, cyber insurance/risk transfer, information sharing and accountability. After this course is complete, you can apply economic analysis and data analysis to cybersecurity. You understand the role of incentives in adopting and efficiency of security mechanisms and designing technical, market-based and regulatory solutions to various security threats. Reliable understanding of the cybersecurity economy as a system discipline, from security policy (modeling that should be protected) mechanisms (how to implement protection goals) How to design security metrics to capture information security issues How to design and maintain effective policies to enhance cybersecurity must take into account the complex incentives facing not only providers and users of Internet and computer software, but also potential attackers Get a tutorial signed by a certificate from the institution logo to verify their achievement and enhance their job prospects Ad certificate on your resume or continue or post it directly on LinkedIn Anna afford an additional incentive to complete course EdX, a nonprofit, based on verified certificates that help fund free education for all worldwide LICENSE materials at Copyright Delft University of Technology and is licensed by Creative Commons Attribution-NonCommercial-ShareAlike (CC-BY-NC-SA) 4.0 International License. An independent, reliable guide to online education over 22 years! copyright ©2020 GetEducated.com; Approved Colleges, LLC All Rights Reserved independent, reliable guide to online education for over 22 years! copyright ©2020 GetEducated.com; Approved Colleges, LLC All Rights Reserved independent, reliable guide to online education for over 22 years! copyright ©2020 GetEducated.com; Approved Colleges, LLC All Rights Reserved

