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Cyber Security: Need of Today's Life

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Abstract: Today, computers are increasingly being used for storing and retrieving information. Some of this information is of a sensitive nature requiring adequate security measures to safeguard the sensitive information. It has also brought unparalleled and potential challenges with them. Moreover, attackers keep changing their attack strategies rapidly to hide their actual identity. In addition, cyber space is considered as fifth battle-field after land, air, water and space. Therefore, strengthening the security has become a vital homeland security mission. Security Challenges is the protection of information systems, hardware, software, and information as well from theft, damages, interruption or misdirection to any of these resources. Therefore, to protect against various attacks, security specialists need to keep concocting new schemes to control any new attacks. While protecting against naïve attacks, some type of advanced techniques should be included in the lineup of security tools or software. Hence, in this talk, I will introduce the principles of cyber security aspects and awareness about the various tools and techniques for securing the information from variety of attacks. Moreover, I will also discuss various security solutions developed for defending against these attacks.

Bio: Dr. B. B. Gupta received PhD degree from Indian Institute of Technology Roorkee, India in the area of Information and Cyber Security. In 2009, he was selected for **Canadian Commonwealth Scholarship award by Government of Canada**. He has published more than 250 research papers (including 08 books and 24 book chapters). He has visited several countries, i.e. Canada, Japan, Australia, China, Spain, Hong-Kong, Italy, Malaysia, etc. to present his research work. **Dr. Gupta is Senior member of IEEE**, Member ACM, Internet Society, Life Member, IAENG, and Life Member, IACSIT. He also worked as a post-doctoral research fellow in UNB, Canada for short duration. His research interest includes Information security, Cyber Security, Mobile/Smartphone, Cloud Computing, Web security, Intrusion detection, Computer networks and Phishing. He is serving as Associate editor of IEEE Transactions on Industrial Informatics, IEEE Access, Associate editor of IJES, inderscience, editor, IJHPCN, inderscience and Executive editor of IJITCA, Inderscience, respectively.