Title: Information Security Assessment in Telemedicine
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Abstract
Information security within healthcare is paramount and telemedicine applications present unique security challenges. Technology is giving rise to new and advanced telemedicine applications and understanding the security threats to these applications is needed to ensure, among other things, the privacy of patient information. We have developed a threat table approach to assess security threats to information systems. The concept and its usefulness is illustrated using a case study by focusing on the capture and representation of salient security threats in telemedicine. To analyze the security threats to an application, we present a threat modeling framework utilizing a table driven approach. Our study reveals that the security risks posed by telemedicine applications are significant, and that using a threat table approach provides an easy-to-use and effective method for managing these threats.

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