

Abstract: Advances in mobile and pervasive computing, social network technologies, and the exponential growth in Internet applications and services will lead to the development of the next generation of Internet services (IoT) that are pervasive, ubiquitous, and touch all aspects of our life. The Internet of Things (IoT) will connect not only computers and mobile devices, but it will also interconnect smart buildings, homes, and cities, as well as electrical grids, gas, and water networks, automotive and airplanes, etc. However, IoT resources and advanced information services will make security a grand challenge. Our goal is to develop and demonstrate a highly secure IoT infrastructure based on our ongoing research in the area of cybersecurity and autonomic computing.



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