

## Chapter 24

# Smart Cities Data Indicator– Based Cyber Threats Detection Using Bio–Inspired Artificial Algae Algorithm

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### ABSTRACT

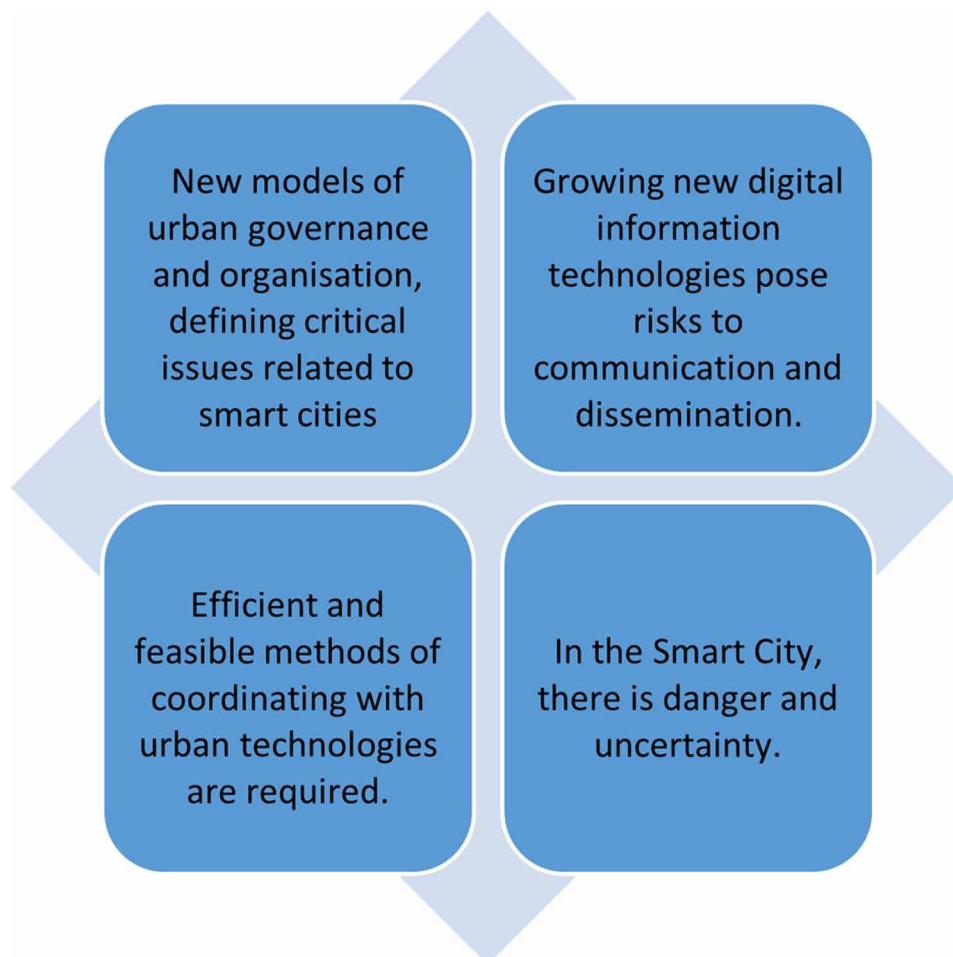
*Smart cities have benefited greatly from the quick development of information technology, such as cloud computing, sensors, and the IoT. Smart cities improve living services and analyze massive amounts of data, which increases privacy and security concerns. But managing security and privacy issues is crucial for a smart city that encourages businesses to adopt new computing paradigms. In recent years, there has been a proliferation of literature on security and privacy, covering topics like end-to-end security, reliable data acquisition, transmission, and processing, legal service provisioning, and privacy of personal data, as well as the application of bio inspired computing techniques to system design and operation. Effective computing systems have been developed by utilizing bio-inspired computing approaches for intelligent decision support. The indicator-based threat detection system with BAAA algorithm is the quickest and most efficient way to scope an environment after observation, and its usefulness is greatly influenced by the adversary rate of change.*

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## INTRODUCTION

One of the most significant challenges for smart cities is cyber threats. Given the everchanging risk landscape, emerging in smart cities could be targeted for a variety of adversary interests. The possibility of a malicious attempt to damage or disrupt a computer network or system is referred to as a cyber threat. This definition is incomplete without mentioning the attempt to access files and infiltrate or steal data and can be solved with proposed method of Indicator Based cyber– threats detection for data of smart Cities using Bio-Inspired Artificial Algae Algorithm. However, the threat is more closely associated with the adverse attempt to gain access to a system in the cyber security community. The combination of data and corresponding advances is producing urban conditions that are very different from anything we have seen before. Cities are becoming more intelligent not just in terms of how to automate routine capacities serving specific people, structures, and traffic frameworks, but also in ways that enable us to screen, comprehend, examine, and plan the city to continuously improve the efficiency, value and personal satisfaction for its residents. This algorithm is based on the behavior of algae, which exhibit

*Figure 1. Problems related to smart cities development*



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