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INSPEM'S ONLINE
WEEKLY SEMINAR

DATE : 4 SEPTEMBER 2020 | TIME : 3.15 PM
MEDIUM : VIDEO CONFERENCE (GOOGLE MEET)

https://meet.google.com/ggr-xado-psp

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Topic : Assessment of A Synchronized Chaotic Systems to Ensure Better Cybersecurity Management

ABSTRACT

Security assessment of a synchronized chaotic systems public-key cryptosystems will be discussed. The proposed scheme is based on a cryptosystem based on synchronized chaotic systems using linear control with the help of the Fibonacci Q matrix. In this paper, we demonstrate that the public-key cryptosystem in consideration is vulnerable to a very simple polynomial-time attack. The assessment via the construction of the lookup table enables us to recover the private key from the public key. Consequently, to ensure sustainable technologies and better cybersecurity management, hence the said cryptosystem cannot consider as secure in its current form.

Keywords: synchronized chaotic systems, sustainable assessment, cybersecurity management, public-key cryptosystems, lookup table

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