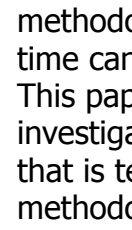


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Annulled Cyber Resiliency: Cyber Discernment for the Launch Providers of Space Systems



Authors:
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Bob Griffin

Keywords: space systems; strategic infrastructure; critical infrastructure; advanced persistent threats; outside-the-wire

Abstract:
Out-of-the-box and outside-the-wire thinking is required to identify sophisticated synthetic aberrations, which would bypass prototypical cyber defense systems. The various tools and techniques are somewhat important within the ecosystem, but an assessment methodology that embodies diligence, persistence, and learning over time can be even more vital than the various tools and techniques. This paper posits that the depth and breadth of any cyber investigation force can well be achieved by employing an approach that is termed Cyber Discernment. In Cyber Discernment, a methodological robust decision engineering framework, Karassian Netchain Analysis (KNA), among others, is utilized to understand Negative Influence Dominating Sets (NIDS) or areas of instability and Positive Influence Dominating Sets (PIDS) or islands of stability. By ascertaining PIDSs and understanding how best to mitigate NIDSs, a form of annulled cyber resiliency, enhanced cyber security, and latent cyber stability can be achieved, thereby mitigating against unintended consequences, undesired elements of instability, and "perfect storm" crises lurking within the system.

Pages: 55 to 61

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Publication date: September 22, 2019

Published in: conference

ISSN: 2519-8599

ISBN: 978-1-61208-743-6

Location: Porto, Portugal

Dates: from September 22, 2019 to September 26, 2019

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- DataSys 2027 Congress**
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- AICT 2027**, The Twenty-Third International Conference on Information Computing and Technology
 - ICM 2027**, The Twenty-Second International Conference on Information Computing and Web Applications and Services
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 - INFOCOM 2027**, The Seventeenth International Conference on Advanced Communications and Computation
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