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Machine Learning Techniques and Analytics for Cloud Security


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ISBN: 978-1-119-76225-6 | January 2022 | 480 pages

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You Are Known by Your Mood: A Text-Based Sentiment Analysis for Cloud Security

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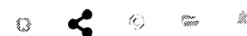
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67

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Abstract

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- » Hybrid Cloud: A New Paradigm in Cloud Computing
- » Recognition of Differentially Expressed Glycan Structure of H1N1 Virus Using Unsupervised Learning Framework
- » Selection of Certain Cancer Mediating Genes Using a Hybrid Model Logistic Regression Supported by Principal Component Analysis (PC-LR)
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Chapter Abstract:

Context is an important aspect for security decisions. Contexts like spatial and temporal are used for analysis of patterns but the context which is often ignored in the realm of cloud security is the human sentiment or mood. In a complex cloud-based distributed environment, end-users are often lucrative targets and pose a high risk of getting contaminated with intruders. Behaviors or moods are highly individual traits and thus carries a potential as identification tools. So, the idea of context sensitive behavior analysis and providing security based upon that can be a major achievement for fair usage of the cloud platform. In the present paper, we propose a novel web-text-based sentiment analysis for understanding the mood, and based upon that, some access-control/secretcy protocol in cloud architecture. For the present study, we have considered stock market persons and their behaviors. This is because stock market buyers and sellers always remain under pressure and suffer from anxiety for their invested money, profits and losses. In the present study, we have analyzed web-texts for stockists using stateof- the art machine learning tools like Support Vector Machine, Artificial Neural Network, and Naïve Bayes Classifier and have tried to identify their usage patterns and have used them for security monitoring. We have also proposed some cryptographic remedies to the problems for cloud-based platforms using homomorphic computations.

Page(s): 129 - 147

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DOI: 10.1002/9781119764113.ch7

Publisher: Wiley Data and Cybersecurity