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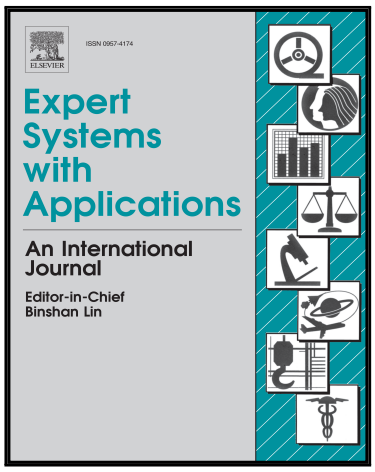


# An Anomaly-based Intrusion Detection System in Presence of Benign Outliers with Visualization Capabilities

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PII: S0957-4174(18)30276-8
DOI: 10.1016/j.eswa.2018.04.038
Reference: ESWA 11952

To appear in: *Expert Systems With Applications*

Received date: 18 December 2017
Revised date: 15 April 2018
Accepted date: 28 April 2018

Please cite this article as: Amin Karami, An Anomaly-based Intrusion Detection System in Presence of Benign Outliers with Visualization Capabilities, *Expert Systems With Applications* (2018), doi: 10.1016/j.eswa.2018.04.038

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**Highlights**

- Taking into consideration benign outliers into IDS design.
- Improving SOM for anomaly visualization in presence of benign outliers.
- Introducing a new visualization by SOM without additional computational costs.
- Several datasets are evaluated to show the detection efficiency and accuracy.
- Comparison with several existing methods has been done.

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