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Agric. Econ Czech

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Brechlerová

Neural network intrusion detection systems

Agric. Econ. – Czech, 50

Security of an information is a very important property, especially when computers are interconnected on the internet. Because no system is absolutely secure, the timely and accurate detection of intrusions is necessary. For this purpose, Intrusion Detection Systems (IDS) v

There are two basic modes: misuse IDS and anomaly systems. Misuse IDS detect intrusions by matching activity that corresponds to known signatures of intrusions or attacks. Anomaly systems detect intrusions by searching for an abnormal activity. Most IDS commercial systems use misuse systems with rule-based system structure. However, these techniques are less successful because attack characteristics vary over time and signatures are hard to maintain. Artificial neural networks have the potential to resolve these issues. As far as anomaly systems are concerned, it is very difficult to build them, because it is difficult to define normal and abnormal behavior for a system. Also for building an anomaly system, neural networks can be used because they can learn to distinguish between the normal and abnormal behavior of a system from examples.