**Тема:** Cybersecurity and Data Privacy

**Ключевые слова:** Data protection, data encryption, malware

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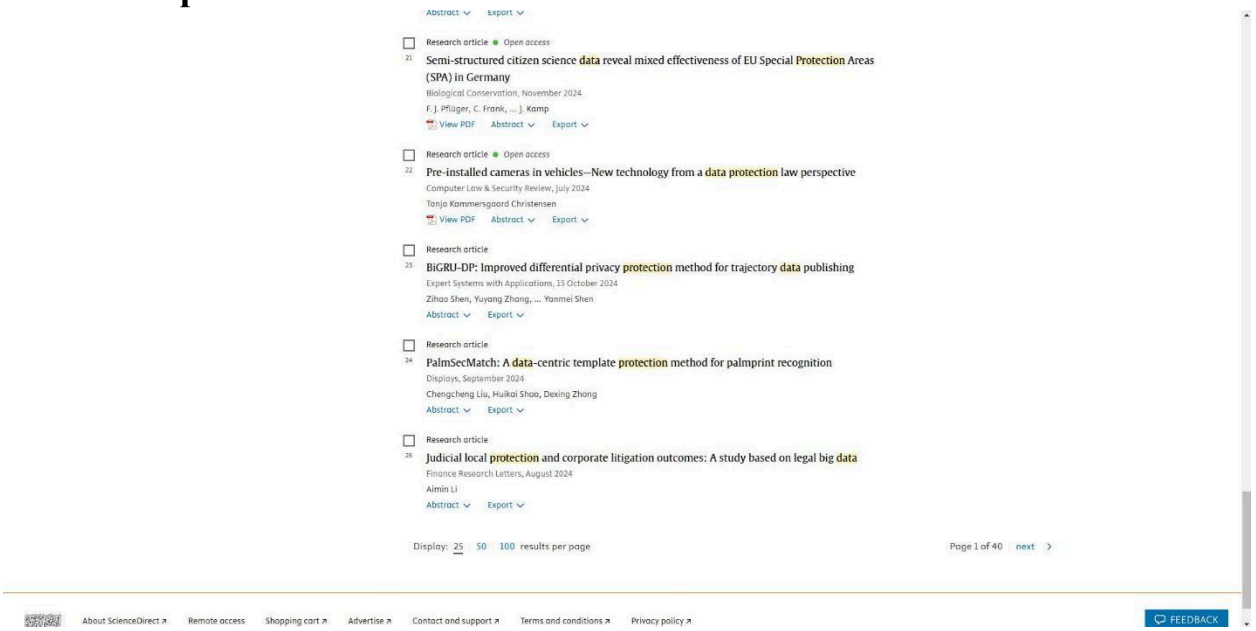


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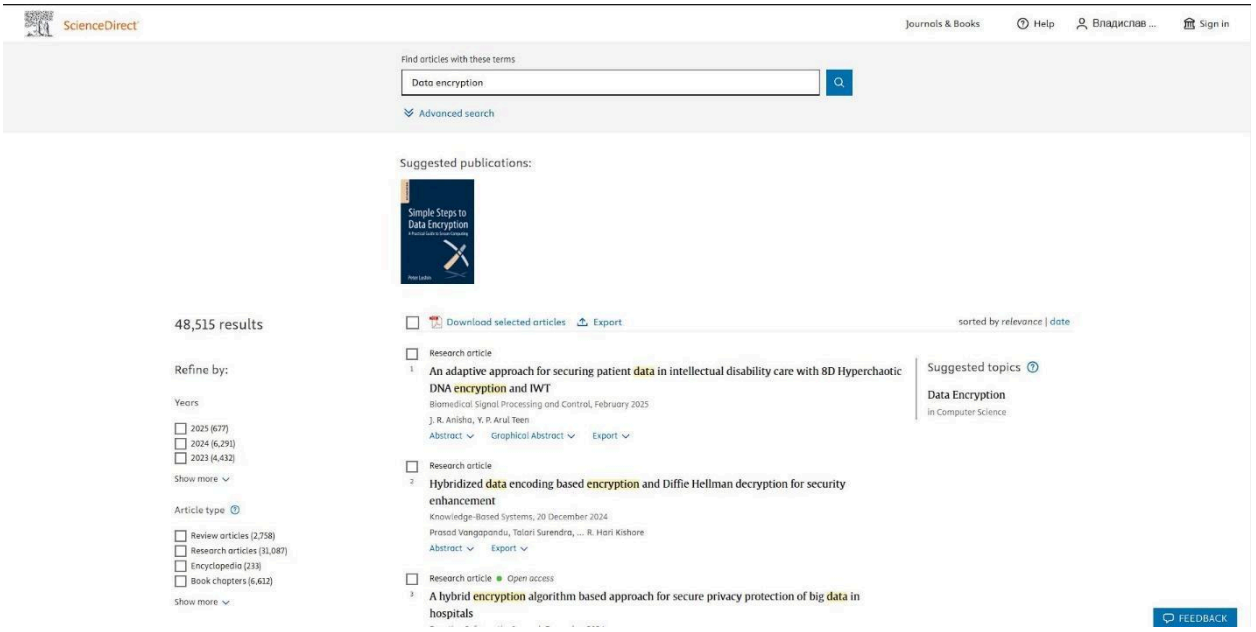

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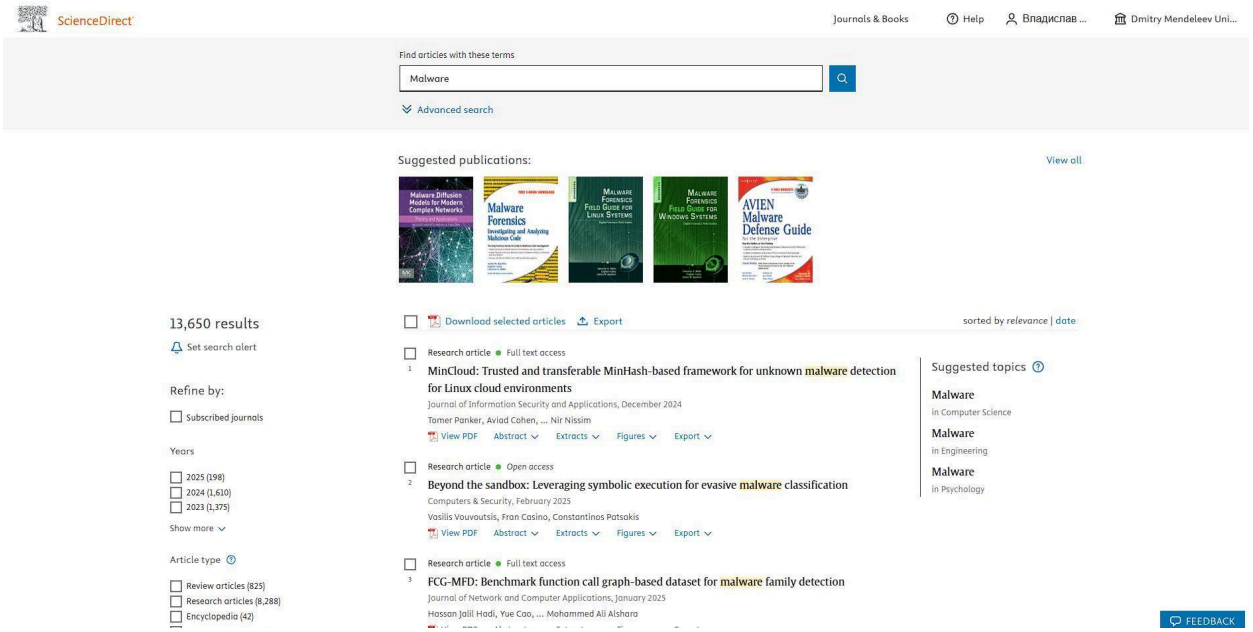
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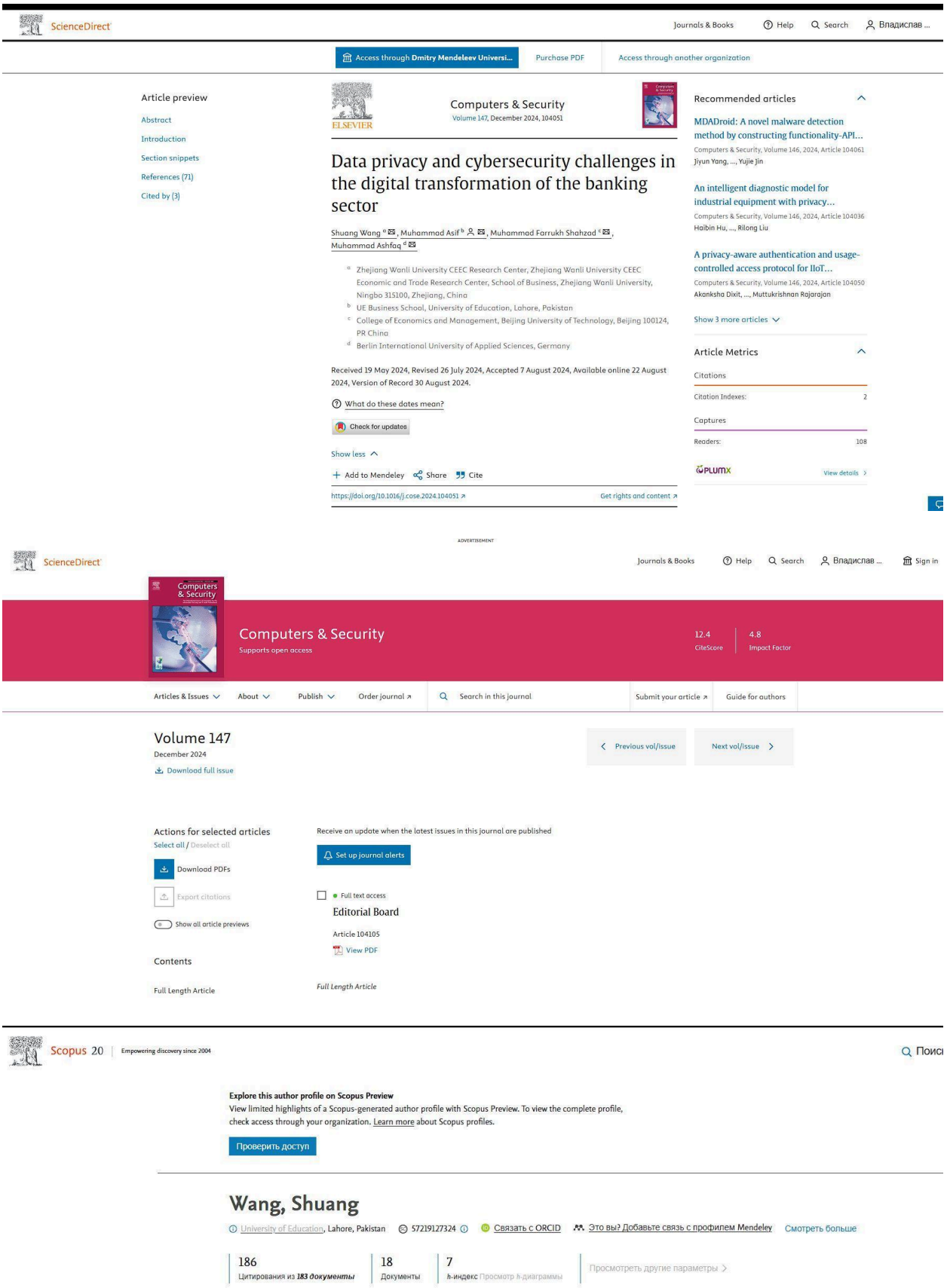
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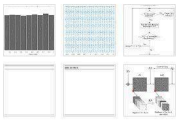

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Journal of King Saud University - Computer and Information Sciences
Volume 36, Issue 9, November 2024, 102217


Full length article

# General secure encryption algorithm for separable reversible data hiding in encrypted domain


Hongli Wan, Minqing Zhang, Yan Ke, Zongbao Jiang, Fuqiang Di


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## Abstract


The separable reversible data hiding in encrypted domain (RDH-ED) algorithm leaves out the embedding space for the information before or after encryption and makes the operation of extracting the information and restoring the image not interfere with each other. The encryption method employed not only affects the embedding space of the information and separability, but is more crucial for ensuring security. However, the commonly used XOR, scram-bling or combination methods fall short in security, especially against known plaintext attack (KPA). Therefore, in order to improve the security of RDH-ED and be widely applicable, this paper proposes a high-security RDH-ED encryption algorithm that can be used to reserve space before encryption (RSBE) and free space after encryption (FSAE). During encryption, the image undergoes block XOR,


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Volume 192, December 2024, 105635
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Marialida Farah, Samar Helou, Elie Raad, Elie El Helou
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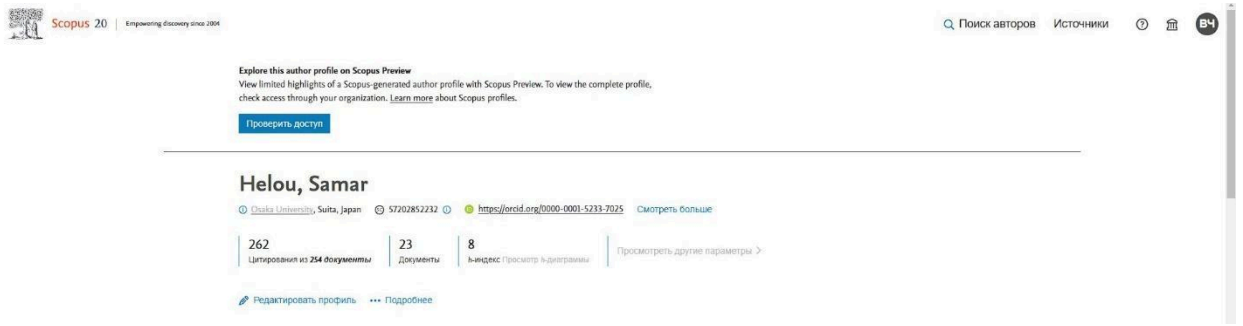
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Tomer Panker, Aviad Cohen, Tom Landman, Chen Bery, Nir Nissim
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Abstract
Linux clouds have become an attractive target for cyber-attacks. However, existing detection solutions for Linux clouds have variety of limitations. Some of the solutions are untrusted, incapable of detecting unknown malware, or rely on a human expert to define the features. Other solutions are trusted but require a large amount of computational resources or have a limited ability to detect rootkits, fileless malware, or malware on a different server. In this study, we propose MinCloud, a trusted and transferable MinHash-based framework for unknown malware detection in Linux virtual servers that overcomes the limitations of existing solutions. In the first stage, we acquired volatile memory dumps from virtual servers by querying the hypervisor in a trusted manner and then analyzed them using the MinHash method. Finally, the MinHash characteristics are
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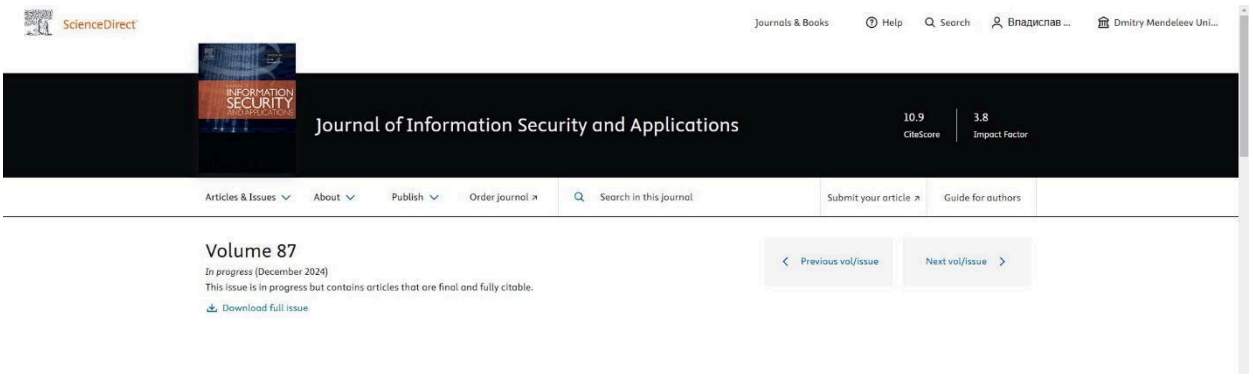
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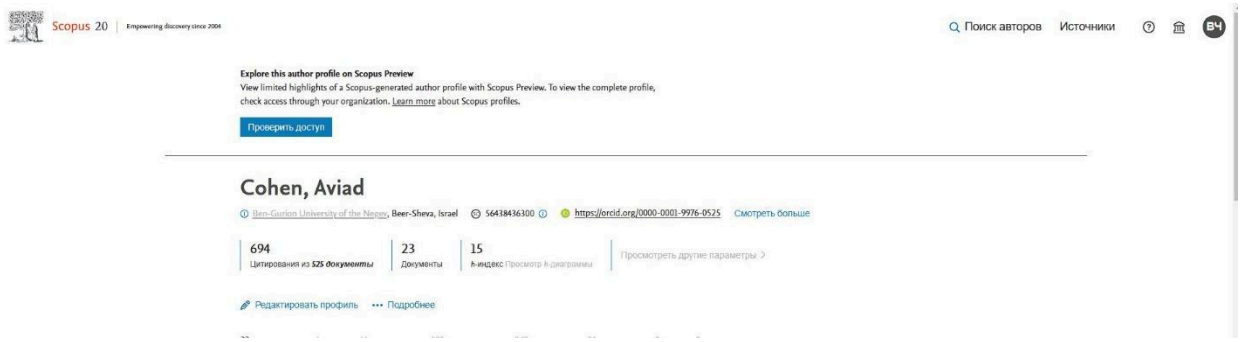
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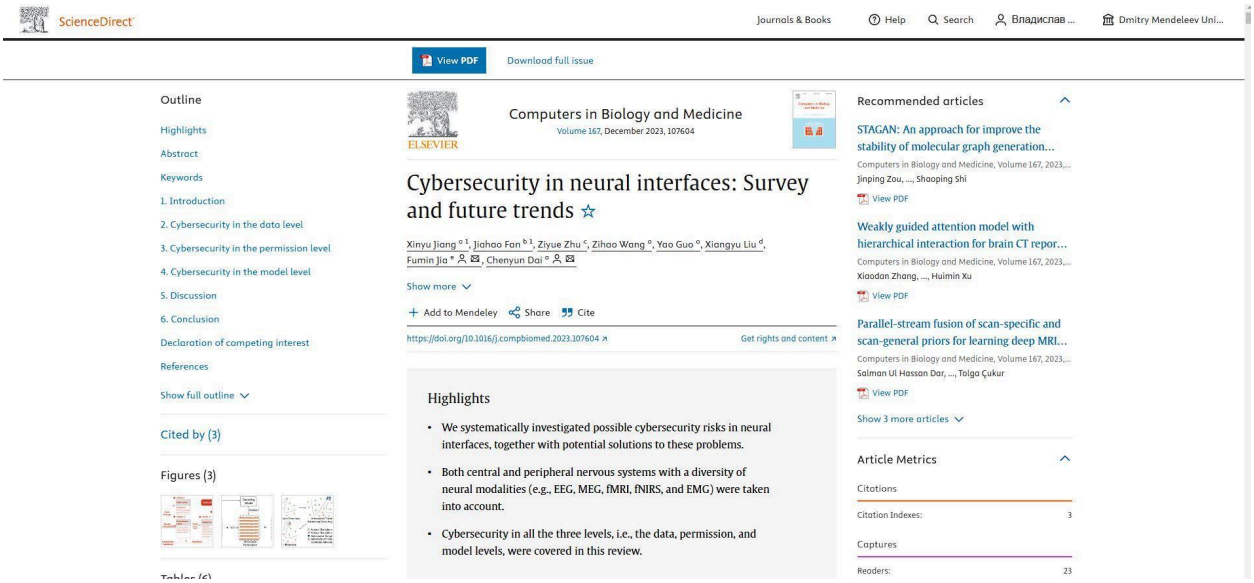
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We systematically investigated possible cybersecurity risks in neural interfaces, together with potential solutions to these problems.
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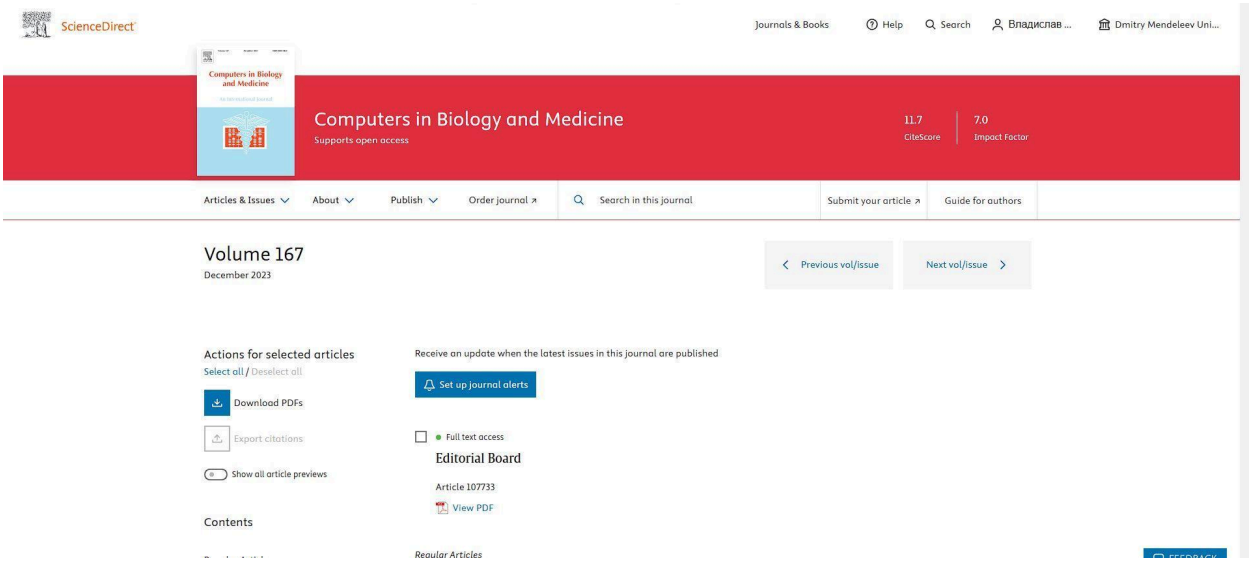
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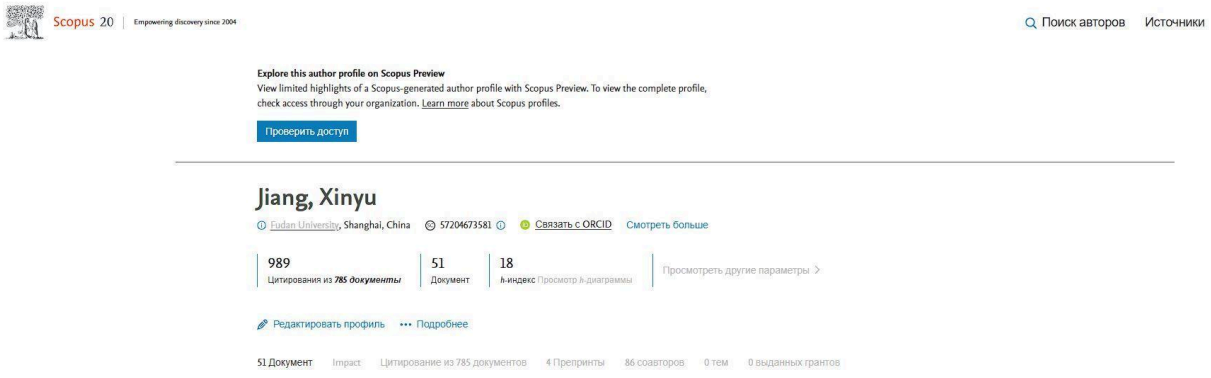
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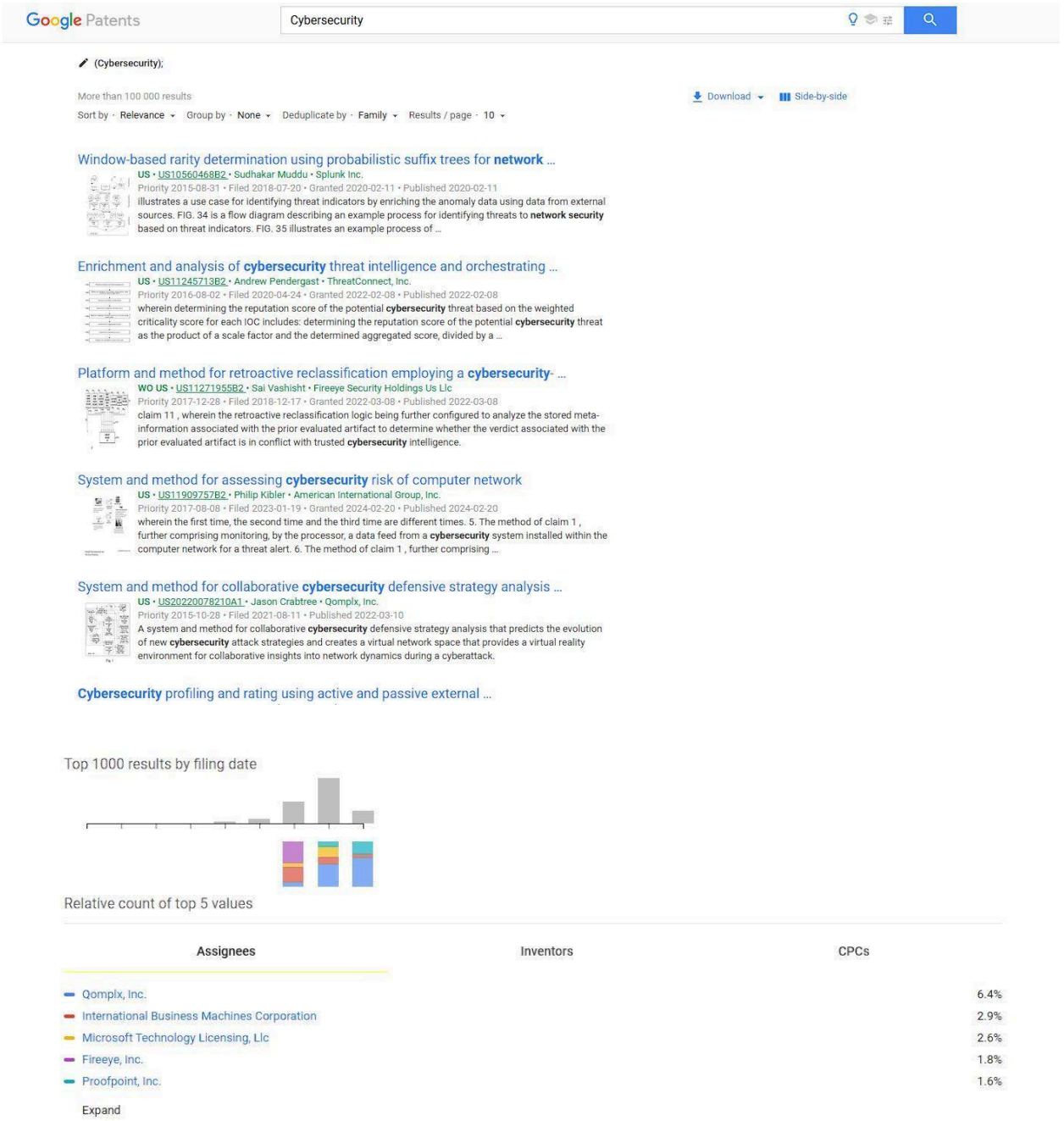

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### Electronic board with security function and method for ensuring security of ...

WO EP US CN JP KR DE FR · JP2009540410A · ギロ, フィリップ · トムソン ライセンシング

Priority 2006-06-08 · Filed 2007-06-04 · Published 2009-11-19

Similar According to an improvement, the electrical control signal that regulates the transmission of the electrical signal in the communication circuit depends on the operation code of the instructions executed in the control circuit. In this way, **data protection** is performed for each instruction.

### Method, system, device and medium for testing password write protection ...

CN · CN115080324A · 王伟 · 苏州浪潮智能科技有限公司

Priority 2022-07-22 · Filed 2022-07-22 · Published 2022-09-20

Similar The method for testing the password write protection function of the HDD disk can **protect the data** safety of the HDD user and simultaneously ensure that the function of the HDD disk is not damaged in the process of testing the function. Specifically, replacing a locked HDD disk with a fully ...

### Technologies for trusted I/O protection of I/O data with header information

US · US11423159B2 · Soham Jayesh Desai · Intel Corporation

Priority 2016-06-20 · Filed 2019-12-05 · Granted 2022-08-23 · Published 2022-08-23

Current processors may provide support for a trusted execution environment such as a secure enclave. Secure enclaves include segments of memory (including code and/or **data) protected** by the processor from unauthorized access including unauthorized reads and writes. In particular, certain processors ...

### Rugged and Secure Removable Mass Memory

• TR202020453Y • Ta Kin Gokhan • Aselsan Elektronik Sanayi Ve Ticaret Anonim Şirketi

Filed 2020-12-14 • Published 2022-07-21

Similar The invention relates to mass memory that carries encrypted data, can be securely erased and whose memory size can be changed.

### File reading system with safety isolation function

CN · CN110661791A · 王刚 · 合肥量空物联信息科技有限公司

Priority 2019-09-16 · Filed 2019-09-16 · Published 2020-01-07

Similar The invention relates to the field of data transmission safety, in particular to a file reading system with a safety isolation function, which comprises a first controller and a second controller which are connected with each other, wherein the second controller is connected with a data receiving ...

### Safety isolation device supporting onboard NVME (network video management ...



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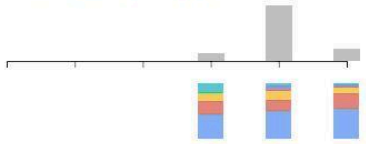

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### Encrypted asset encryption key parts allowing for assembly of an asset ...

*WO* **EP US JP KR** *SG* · US11601264B2 · Stephen Christensen · Tzero Ip, Llc

Priority 2018-10-12 · Filed 2019-10-07 · Granted 2023-03-07 · Published 2023-03-07

... asset encryption key parts. 25. The method of claim 20 , wherein the action comprises at least one of the following actions based on the at least one asset key: **encrypting first data**; decrypting second data; encrypting a first blockchain private key; decrypting a second blockchain private key; ...

### Disk sanitization using encryption

**WO EP US** · US7581118B2 · William P. McGovern · Netapp, Inc.

Priority 2004-12-14 · Filed 2005-12-05 · Granted 2009-08-25 · Published 2009-08-25

Similar 11. A system to perform disk sanitization, the system comprising: a disk including **data encrypted** using a first encryption key; and a processor configured to respond to a command to delete a first set of encrypted blocks on the disk, the first set of encrypted blocks representing a file or a ...

### Secure data handling and storage

**US** · US11502833B2 · Brandon Dewitt · Mx Technologies, Inc.

Priority 2016-01-29 · Filed 2019-12-23 · Granted 2022-11-15 · Published 2022-11-15

claim 1 , further comprising a key module that generates, on a consistent frequency, new encryption keys for re-encrypting the **encrypted data** in the data repository, wherein the key module expires encryption keys that are no longer in use such that the expired encryption keys cannot be used again.

### Information processing apparatus, authentication method, and storage medium

**US JP** · US8312294B2 · Jun Sato · Kabushiki Kaisha Toshiba

Priority 2008-07-18 · Filed 2009-07-16 · Granted 2012-11-13 · Published 2012-11-13

Similar According to one embodiment, a storage medium comprises an encrypted content, key management information which is updated whenever necessary and includes a media key block including encrypted media keys obtained by encrypting a media key which is a base of an authentication key used for mutual ...

### System and method for providing program information, and recording medium used ...

**EP US JP** · US8205083B2 · Hiroshi Suu · Kabushiki Kaisha Toshiba

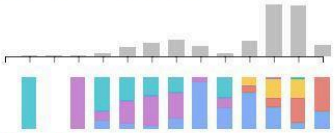
Priority 2007-04-17 · Filed 2008-04-16 · Granted 2012-06-19 · Published 2012-06-19

Similar A system for providing program information has a user terminal, a recording medium capable of reading information therefrom and writing information thereto through a command issued by the user terminal, and a server connected to the user terminal via a network, and provides program information ...

### System, method and device for dynamically **encrypting data** based on key bank

**CN** · CN112929172B · 郭晓逢 · 中国工商银行股份有限公司

Top 1000 results by filing date



Relative count of top 5 values

| Assignees | Inventors | CPCs | |
|---|---|---|---|
| International Business Machines Corporation | | | 2.7% |
| Visa International Service Association | | | 1.7% |
| Amazon Technologies, Inc. | | | 1.5% |
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malware

(malware);

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## Agent presence for self-healing

WO EP US CN RU · US20220309157A1 · Shashin Thakur · Musarubra Us Llc

Priority 2014-10-24 · Filed 2022-06-14 · Published 2022-09-29

or from unwanted security objects. In one example, attacker 180 is a **malware** author whose goal or purpose is to cause **malicious** harm or mischief. The **malicious** harm or mischief may take the form of installing root kits or other **malware** on client devices 110 to tamper with the system, installing ...

## System and method for threat detection and identification

US · US11082435B1 · Ashar Aziz · Fireeye, Inc.

Priority 2004-04-01 · Filed 2019-05-06 · Granted 2021-08-03 · Published 2021-08-03

claim 11 , wherein the generated data comprises a signature that corresponds to a string of bits or a binary code pattern for use in identifying whether the data subsequent to the received data including **malware** by a comparison of binary code within the subsequent data and the binary code pattern.

## Detection of **ransomware**

US · US11689562B2 · Oliver G. Devane · Mcafee, Llc

Priority 2020-06-17 · Filed 2020-06-17 · Granted 2023-06-27 · Published 2023-06-27

An apparatus, including systems and methods, for detecting **ransomware** is disclosed herein. For example, in some embodiments, an apparatus includes a memory element operable to store instructions; and a processor operable to execute the instructions, such that the apparatus is configured to receive ...

## Behavioral **Malware** Detection Using Interpreted Virtual Machines

WO EP US CN JP KR AU CA ES *HK* IL RU · JP6706273B2 · ハジマサン, デオルゲ-フローリン · ビットディフェンダー アイピーアール マネジメント リミテッド

Priority 2015-06-12 · Filed 2016-06-07 · Granted 2020-06-03 · Published 2020-06-03

The routine dispatcher is configured to, in response to detecting the occurrence of a trigger event, select an anti-**malware** bytecode routine for execution from a plurality of anti-**malware** bytecode routines. A **malware** bytecode routine is selected according to the trigger event, and the occurrence of ...

## System and method for analyzing packets

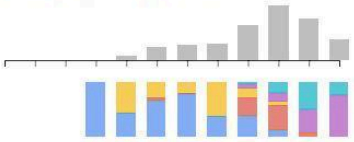
US · US9282109B1 · Ashar Aziz · Fireeye, Inc.

Priority 2004-04-01 · Filed 2014-06-30 · Granted 2016-03-08 · Published 2016-03-08

determining that the packets have suspicious characteristics of **malware**; and responsive to the determining that the packets have suspicious characteristics of **malware**, transmitting the packets that have suspicious characteristics of **malware** to a replayer, the replayer being configured to modify a ...

**Malware** family identification using profile signatures

Top 1000 results by filing date



Relative count of top 5 values

| Assignees | Inventors | CPCs |
|---|---|---|
| Symantec Corporation | | 5.6% |
| Fireeye, Inc. | | 4.1% |
| Mcafee, Inc. | | 3.4% |
| Palo Alto Networks, Inc. | | 3.3% |
| Sophos Limited | | 2.9% |

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## Вывод

По итогам проведенного поиска англоязычных источников по теме кибербезопасности и защиты данных выявлено, что эта область остается одной из наиболее актуальных и динамично развивающихся. Анализ литературы показал, что данная тема затрагивает широкий спектр отраслей, начиная от финансовой и медицинской сферы до образования и государственной инфраструктуры.

**Финансовая сфера**: Важность защиты данных клиентов и предотвращения мошеннических операций делает кибербезопасность ключевым элементом для банков и финансовых организаций.

**Здравоохранение**: Угрозы кибератак на медицинские системы могут привести к утечке чувствительных данных пациентов и нарушениям в работе жизненно важных систем.

**Образование**: Растущая зависимость учебных учреждений от цифровых технологий поднимает вопросы защиты данных студентов и преподавателей.