Елфимова Карина Владимировна, КС-33, 2025

Тема:

«Методы повышения безопасности полетов на основе анализа данных бортовых систем»

Ключевые слова для темы: "aviation safety" AND "onboard system" OR "airport security"

Поиск по ключевым словам для иностранных статей:

За 2020-2025 года были найдены 3095 статей на ресурсе https://link.springer.com/

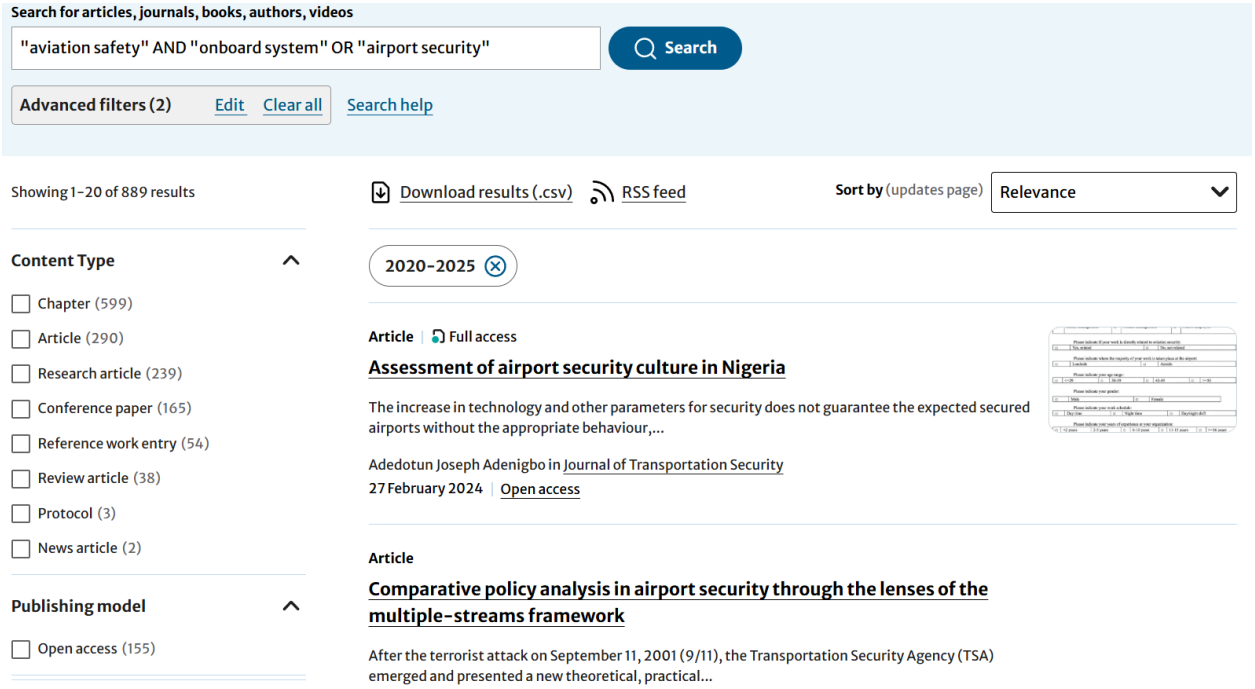


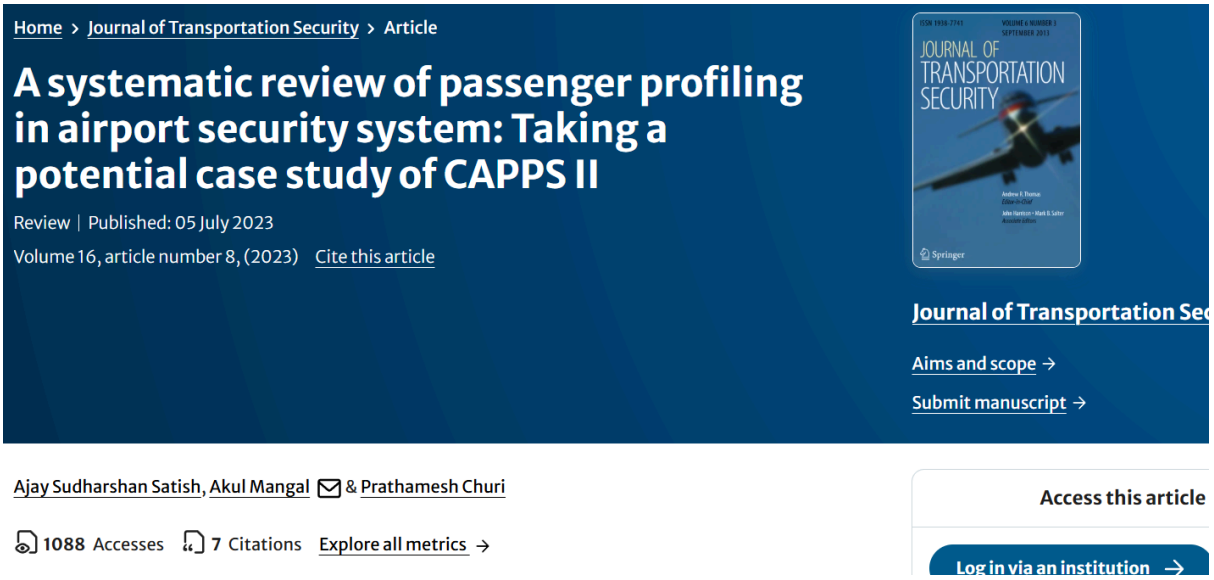
Рисунок 1. Поиск по ключевым словам

Релевантные статьи

1. Airport security: the impact of AI on safety, efficiency, and the passenger experience - Eugene Pik, 2024



2. A systematic review of passenger profiling in airport security system: Taking a potential case study of CAPPS II - Ajay Sudharshan Satish, Akul Mangal, Prathamesh Churi, 2024



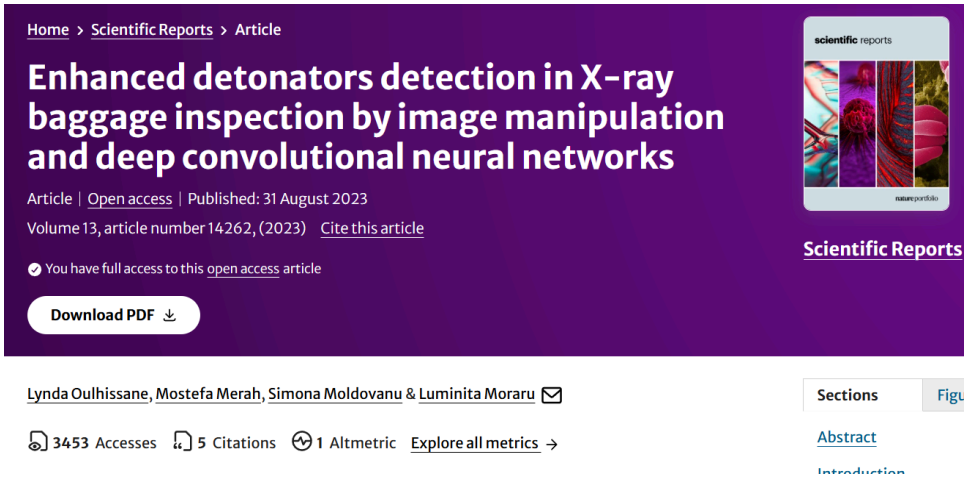
3. Design of airport security screening using queueing theory augmented with particle swarm optimization - Mohamad Naji, Ali Braytee, Ahmed Al-Ani, Ali Anaissi, Madhu Goyal & Paul J. Kennedy, 2020



4. Assessment of airport security culture in Nigeria - Adedotun Joseph Adenigbo, 2024



5. Enhanced detonators detection in X-ray baggage inspection by image manipulation and deep convolutional neural networks - Lynda Oulhissane, Mostefa Merah, Simona Moldovanu & Luminita Moraru, 2023



Результаты IF журналов, в которые входят вышеперечисленные статьи.

Для 1, 2 и 4 статей:
Journal of Transportation Security, Springer New York - United States

Journal of Transportation Security

COUNTRY	SUBJECT AREA AND CATEGORY	PUBLISHER	SJR 2024
United States Universities and research institutions in United States Media Ranking in United States	Decision Sciences Management Science and Operations Research Social Sciences Law Political Science and International Relations Safety Research Sociology and Political Science Transportation	Springer New York	0.247 Q2 H-INDEX 20

PUBLICATION TYPE	ISSN	COVERAGE	INFORMATION
Journals	19387741, 1938775X	2008-2025	Homepage How to publish in this journal

3 статья:
Service Oriented Computing and Applications, Springer London - United Kingdom

Service Oriented Computing and Applications

COUNTRY	SUBJECT AREA AND CATEGORY	PUBLISHER	SJR 2024
United Kingdom Universities and research institutions in United Kingdom Media Ranking in United Kingdom	Business, Management and Accounting Management Information Systems Computer Science Hardware and Architecture Information Systems Software	Springer London	0.361 Q2 H-INDEX 33

PUBLICATION TYPE	ISSN	COVERAGE	INFORMATION
Journals	18632386, 18632394	2007-2024	Homepage How to publish in this journal

5 статья:
Scientific Reports, Nature Research – United Kingdom

Scientific Reports

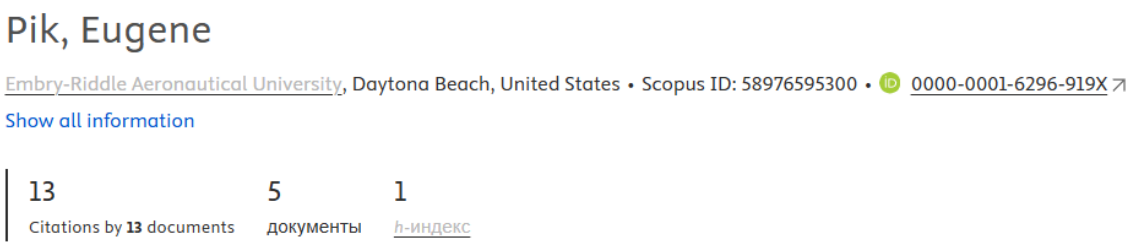
COUNTRY	SUBJECT AREA AND CATEGORY	PUBLISHER	SJR 2024
United Kingdom Universities and research institutions in United Kingdom Media Ranking in United Kingdom	Multidisciplinary Multidisciplinary	Nature Research	0.874 Q1 H-INDEX 347

PUBLICATION TYPE	ISSN	COVERAGE	INFORMATION
Journals	20452322	2011-2025	Homepage How to publish in this journal scientificreports@nature.com

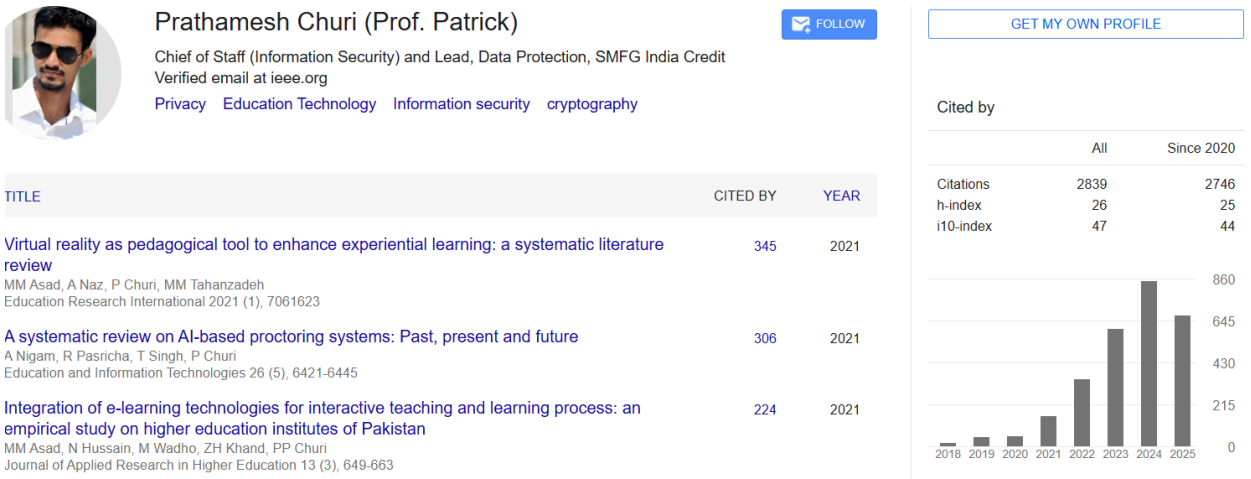
Авторы

Возьмем первые имена в каждой из предыдущих статей. Для поиска индекса Хирша воспользуемся Scopus и Google Scholar.

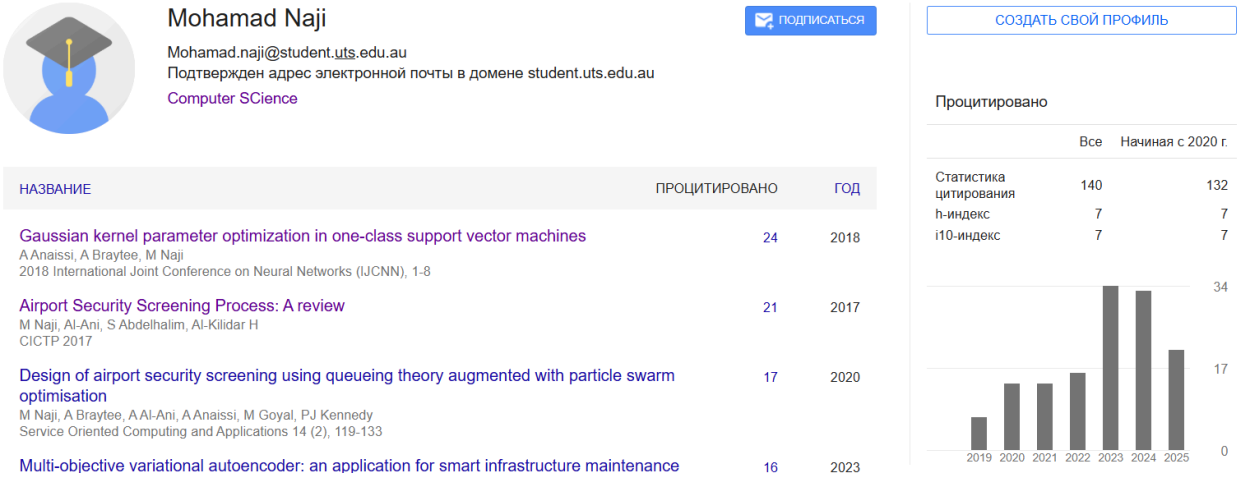
1. Pik, Eugene



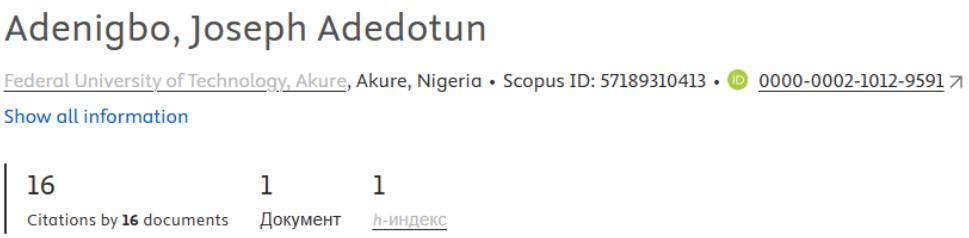
2. Prathamesh Churi (Prof. Patrick)



3. Mohamad Naji



4. Adedotun Joseph Adenigbo



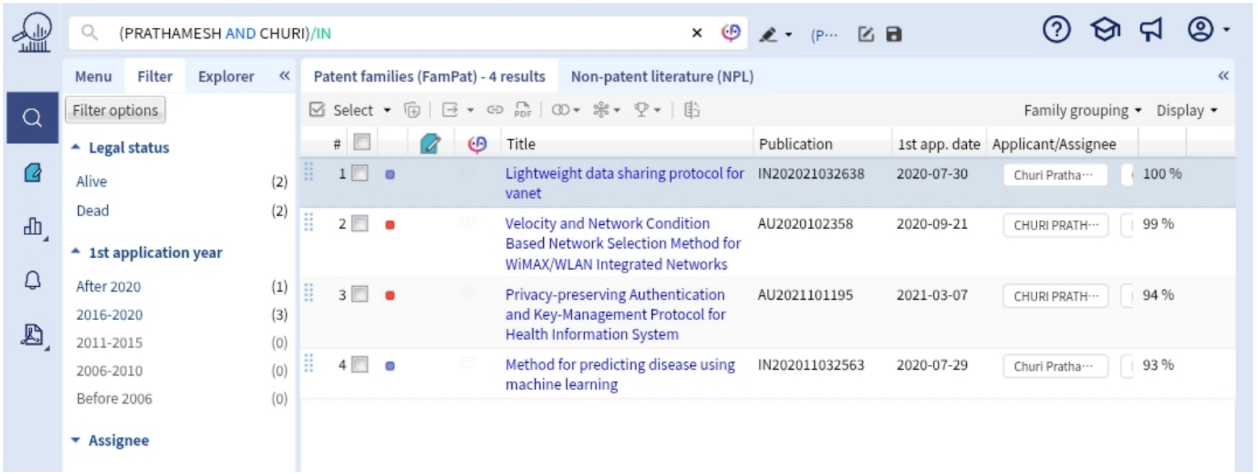
5. Kernadi, Mostefa



Патенты:

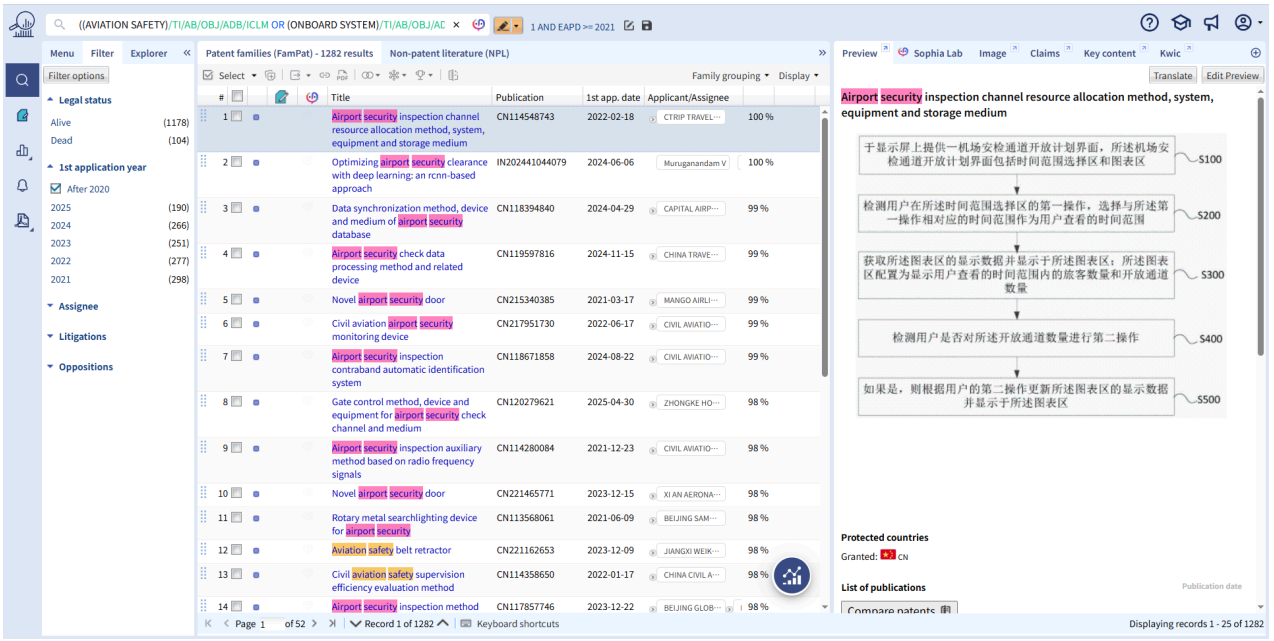
Поиск по некоторым авторам.

1. (Eugene AND Pik)/IN – не дал результата. Как и (Akul and Mangal)/IN
2. Prathamesh Churi – не делал патентов по данной тематике



3. Общий поиск (все через OR)

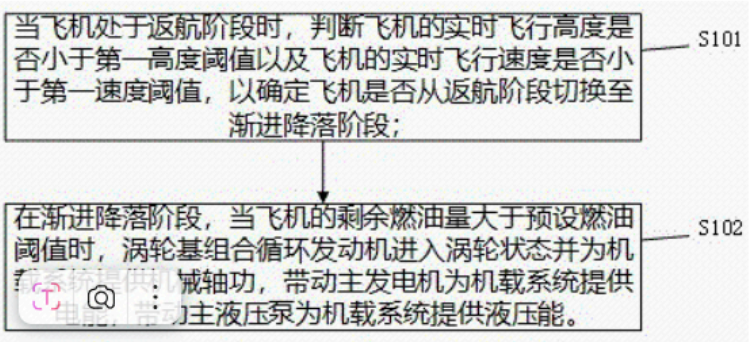
За 2020-2025 найдено 1282 патентов.



Пример патентов:

1.

Energy supply method and device for aircraft onboard system



List of publications Publication date

Compare patents

Application number 2023CN-1177172 Date 2023-09-13 Register

CN116902210 B - Granted patent for invention	2023-12-05
CN116902210 A - Published application	2023-10-20

Priority Numbers & Dates 2023CN-1177172 2023-09-13

Abstract

The invention relates to an energy supply method and device for an aircraft airborne system, and the method comprises the steps: judging whether the real-time flight height of an aircraft is smaller than a first height threshold value or not and whether the real-time flight speed of the aircraft is smaller than a first speed threshold value or not when the aircraft is in a return flight stage, so as to determine whether the aircraft is switched from the return flight stage to a progressive landing stage or not; in the gradual landing stage, when the residual fuel quantity of the aircraft is larger than a preset fuel threshold value, the turbine-based combined cycle engine enters a turbine state and provides mechanical shaft work for the airborne system, drives the main generator to provide electric energy for the airborne system and drives the main hydraulic pump to provide hydraulic energy for the airborne system. Compared with the prior art, in the scheme, the turbine-based combined cycle engine is switched to the turbine state from the stamping state from the return flight stage to the progressive landing stage of the aircraft, so that the turbine-based combined cycle engine can provide mechanical shaft work for an airborne system when in the turbine state; and continuous and stable energy supply for the airborne system of the aircraft is realized.

Inventor(s) CHEN LIJUN
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SONG LIXIN
TAN JINGQI
CHANG CHENG
NI SHIYANG
PAN JUN
XU LIANG
WANG XIAOPING

Applicant/Assignee AVIC JINCHENG NANJING ENGINEERING INSTITUTE OF AIRCRAFT SYSTEMS
owned by AVIC JINCHENG NANJING ENGINEERING INSTITUTE OF AIRCRAFT SYS

IPC codes B64D-041/00

CPC codes B64D-041/00 B64D-041/00/7

Entry week in the collection 2023-43

2.

Optimizing airport security clearance with deep learning: an rcnn-based approach

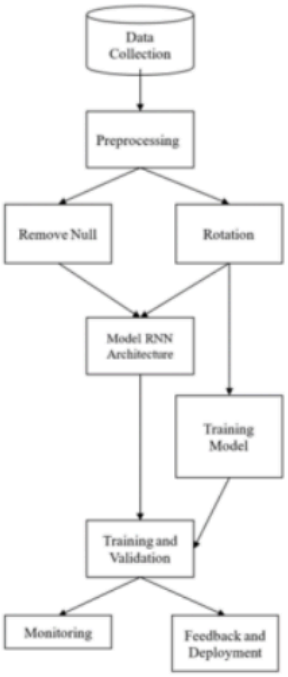


Figure 1 – Proposed Model

Protected countries

Pending: IN

List of publications Publication date

Compare patents

Application number 2024IN-41044079 Date 2024-06-06 Register

IN202441044079 A - Application laid open 2024-06-21

Priority Numbers & Dates 2024IN-41044079 2024-06-06

Abstract

Airport security clearance is a critical process that demands efficiency and accuracy to ensure passenger safety and convenience. This invention proposes an innovative method using Region-based Convolutional Neural Networks (RCNN) to enhance security checks by automating threat detection in X-ray imagery. The proposed deep learning model aims to improve detection accuracy, reduce processing times, and minimize human error, thereby streamlining airport security operations and enhancing overall passenger experience.

Inventor(s) Muruganandam V
Rajini G

Applicant/Assignee Muruganandam V
Rajini G

IPC codes G01V-005/00 G06F-021/62 **G06N-003/04** G06N-003/08 G07C-009/25

CPC codes

Entry week in the collection 2024-27

Вывод

Тема, касающаяся авиационной безопасности и безопасности в аэропортах достаточно актуальна на международном уровне. Ученые и иные исследователи пытаются задействовать искусственный интеллект для выявления ошибок, программирования систем безопасности для выявления настроения людей для выявления опасностей и т. д. Среди патентов наиболее популярным направлением является развитие безопасности на территории аэропорта.