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SOFTWARE

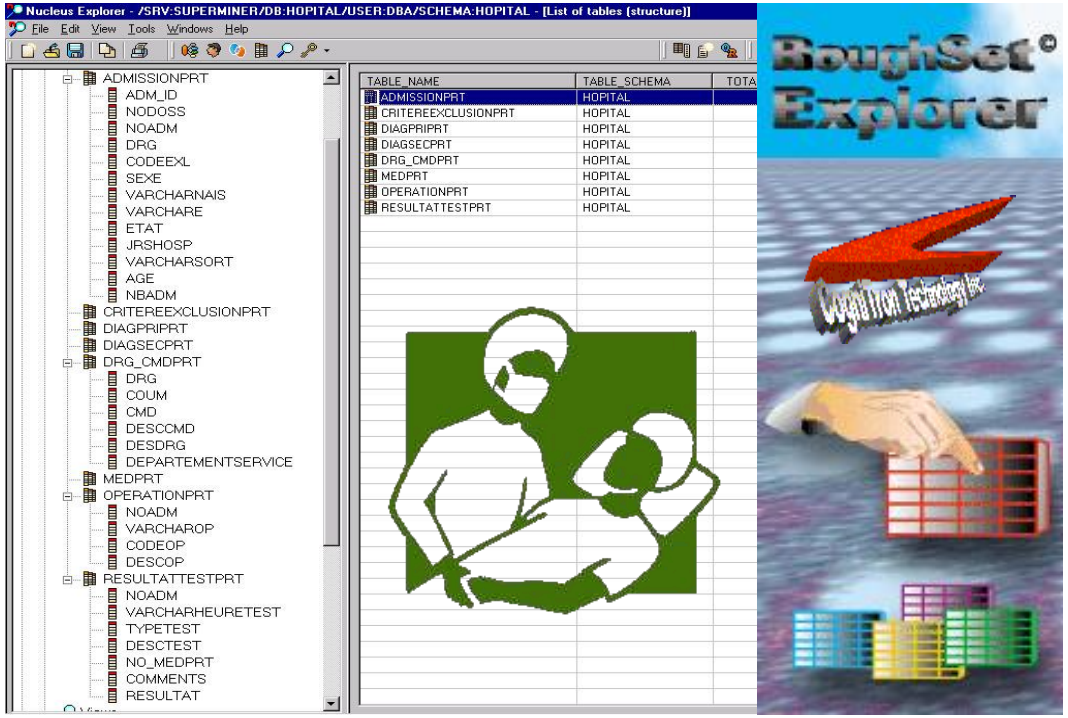
Big Data, Small Data, Our Data - A COVID Perspective…

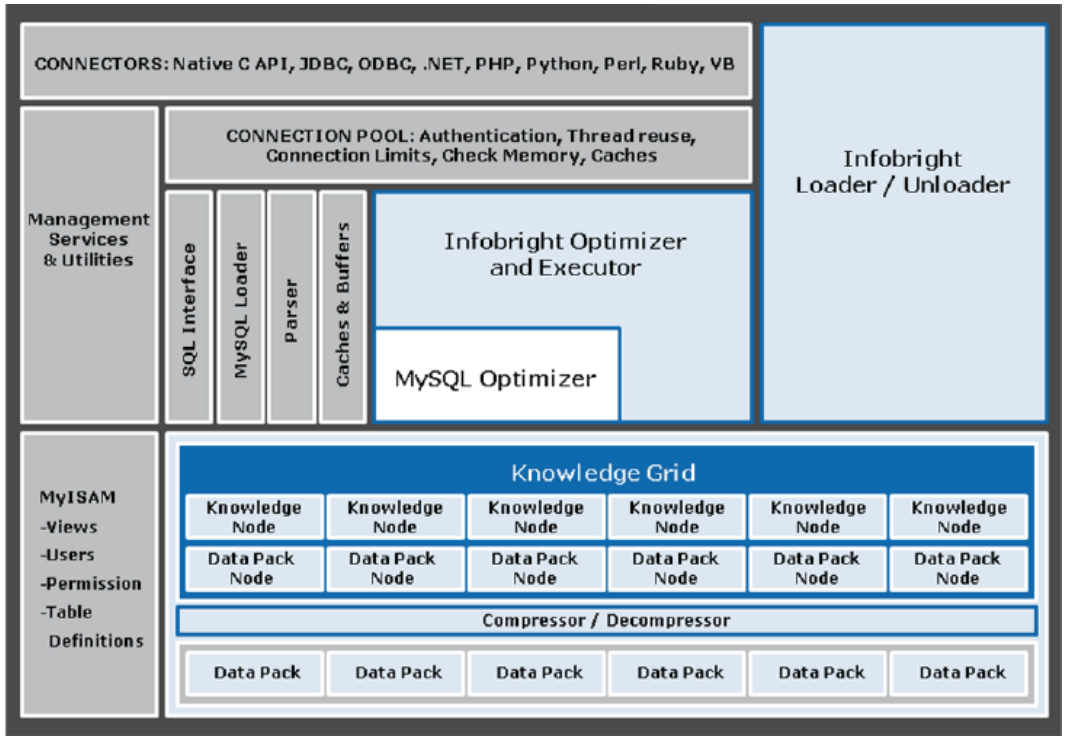
… czyli jaki może być los prywatności naszych danych w obliczu potrzeby (i chęci!) wzmożonego monitorowania

Dominik Ślęzak

Odrobina historii…

- Systemy „Data Analytics”
- Systemy „Data Processing”





INFOBRIGHT

- Przykładowi klienci:

Information Builders

CISCO

SOD SECURITY ON-DEMAND

Label in the Loop

BRIGHTBOX

SMALL BIG DATA

CHALLENGES

QUALITY

"No more garbage data" - models are only as good as the provided data

Maintaining model performance through time

Better / faster / cheaper data labelling

EXPLAINABILITY

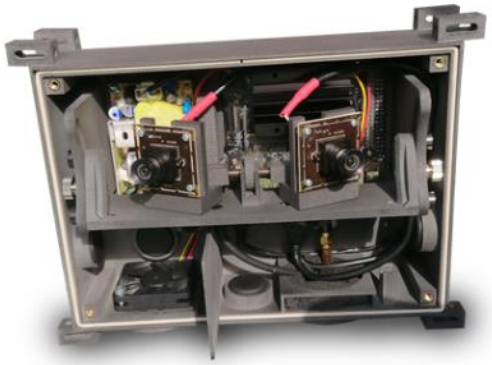
Explainable models increase the quality of decision-making

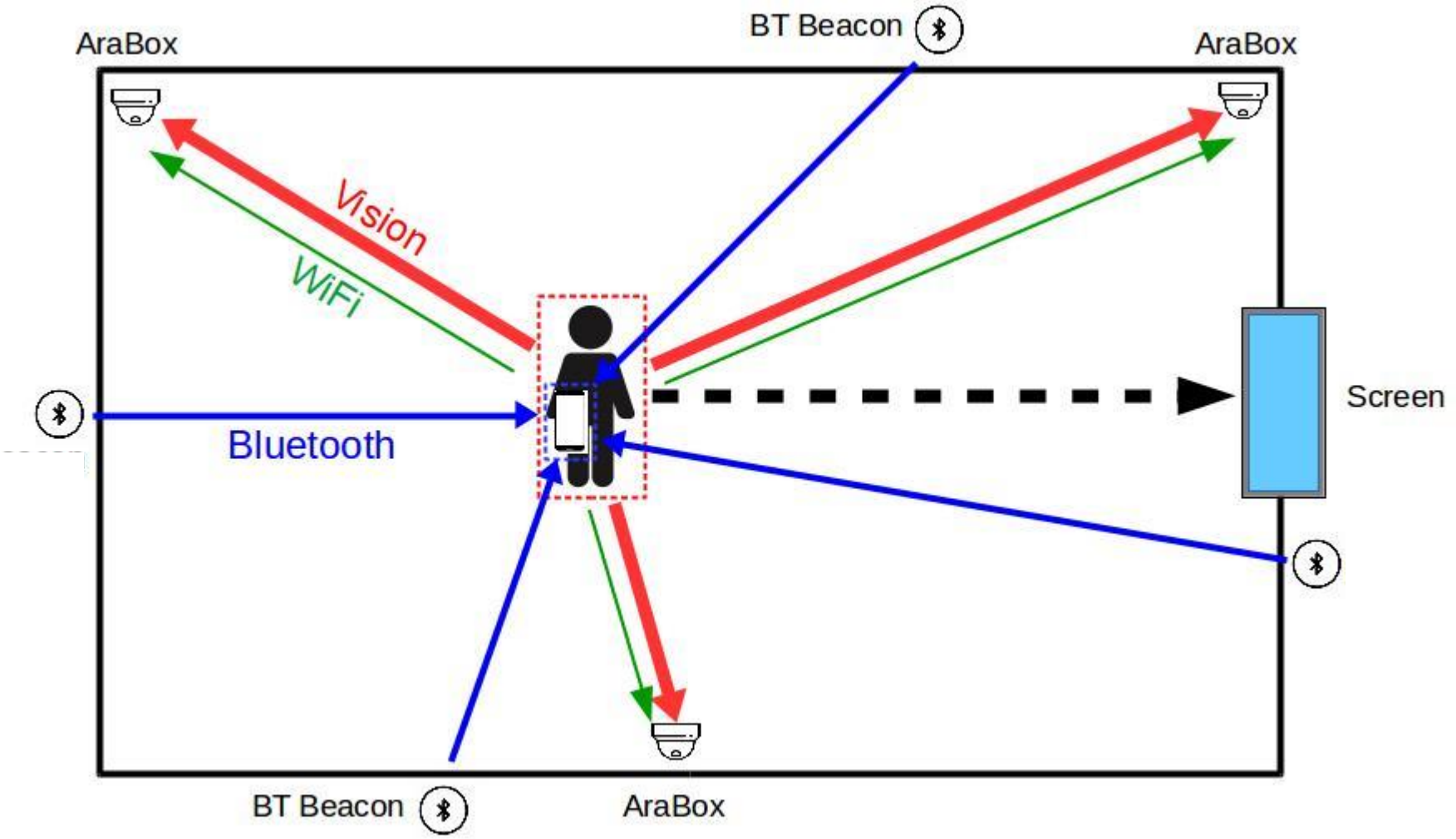
Understand how data quality affects the prediction models

SCALABILITY

Implementing AI/ML where such a possibility was throttled by processing speed requirements or data scale

Enabling machine learning scalability for big data and/or big data flows





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https://arahub.ai/

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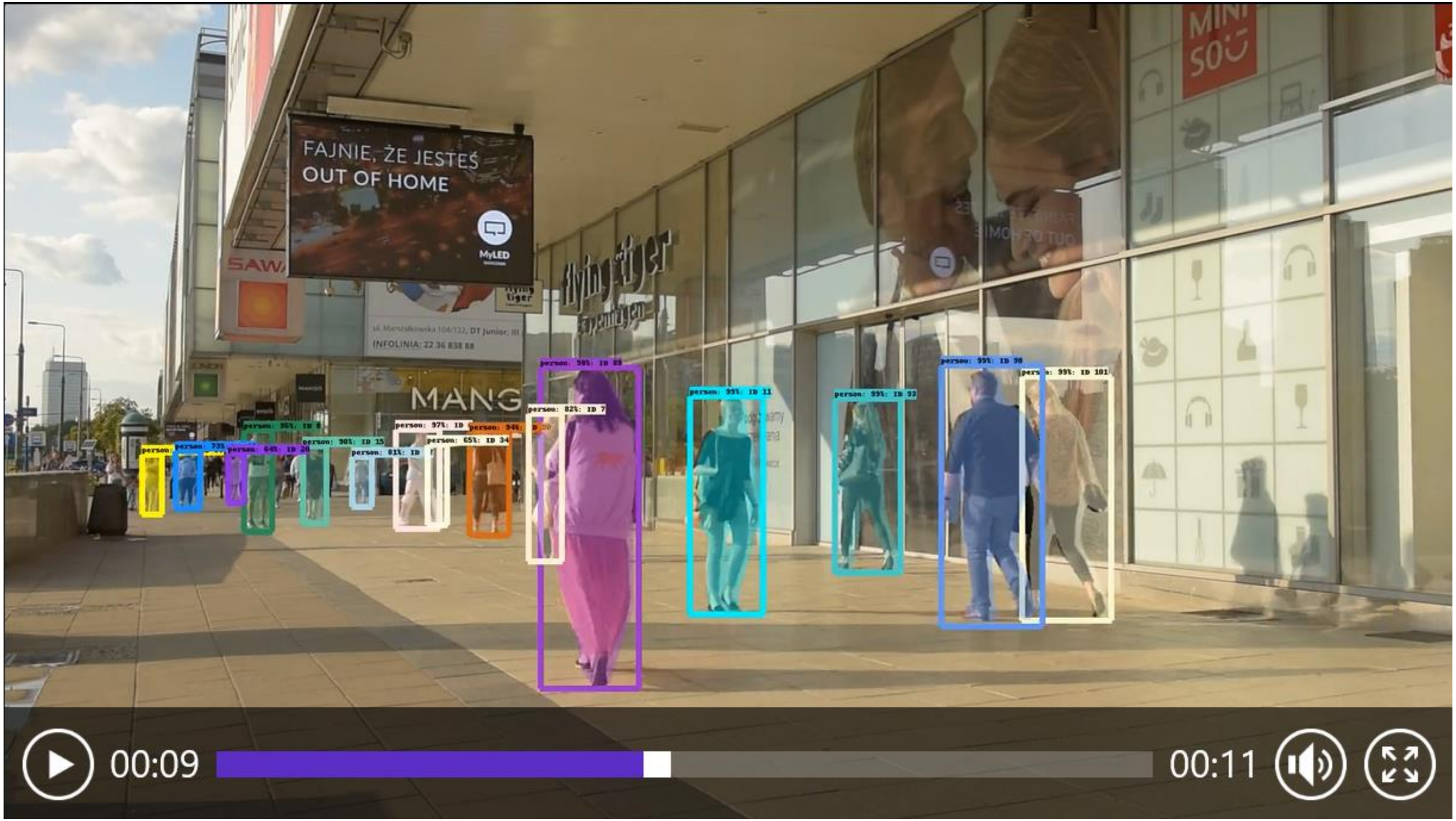
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BREAKING NEWS: Security On-Demand Launches ThreatWatch® Hunt, Advanced Threat Hunting Service

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hours minutes seconds

TODAY IT TAKES AS LITTLE AS 19 MINUTES FOR AN ATTACKER TO "OWN" YOU

IEEE BigData 2019 Cup: Suspicious Network Event Recognition

QED SOFTWARE

8 months, 3 weeks ago

Suspicious Network Event Recognition is a data mining challenge organized in association with IEEE BigData 2019 conference. The task is to decide which alerts should be regarded as suspicious based on information extracted from network traffic logs. The competition is kindly sponsored by Security On-Demand (**https://www.securityondemand.com/**) and QED Software (**http://qed.pl/**).

Overview

Cyber threat detection and analytics play a pivotal role in providing security to organizations that provide web services, and to their users. Importance of this field is continuously growing due to the increasing abundance of Internet services, wireless networks, smart devices, etc. Since the cybersecurity domain is hugely complex, it is also one of the major challenges of the contemporary world.

In this challenge, the task is to detect truly suspicious events and false alarms within the set of so-called network traffic alerts, that the Security Operations Center (SOC) Team members @ SOD have to analyze on an everyday basis. An efficient classification model could help the SOC Team to optimize their operations significantly. It is worth adding that although the competition sponsor is entirely commercial, the knowledge and experience that can be gathered by the competition participants may be highly beneficial to improve the intelligent cybersecurity modules in many organizations.

IEEE BigData 2020 Cup: Predicting Escalations in Customer Support

Information Builders

2 months, 4 weeks from now

Predicting Escalations in Customer Support is a data mining challenge organized in association with the IEEE BigData 2020 conference. The task is to predict which cases in Information Builders' technical support ticketing system will be escalated in the nearest future by customers. The competition is organized jointly by Information Builders (https://www.informationbuilders.com/) and QED Software (http://www.qed.pl/).

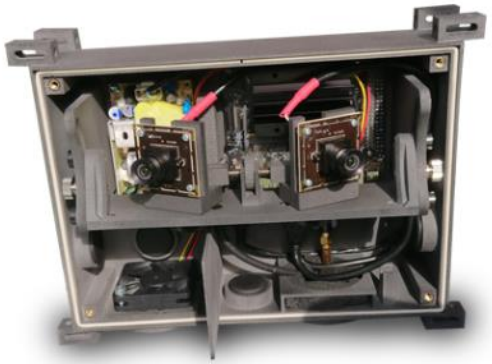
Overview

Technical Support Representatives of Information Builders strive to provide the highest quality level of support to their customers. At times, we may encounter situations where our support process and the needs of our customers conflict. When this occurs, undoubtedly, an escalation will arise. Every escalation is very disruptive to the support process. It changes the day to day activities of Technical Support Representatives, and more importantly, we have an upset customer. The ability to predict when an escalation may arise will allow us to react and do what's possible to prevent an escalation, diffuse a potential problem, thus maintaining customer satisfaction. We should be able to predict "when" an escalation occurs, it is also equally important to predict why an escalation is going to arise – is it due to a production outage, duration, technical proficiency, project deadlines or other issues. Depending upon the type of escalation, we will be able to build differing support processes that can be best suited to prevent an escalation.

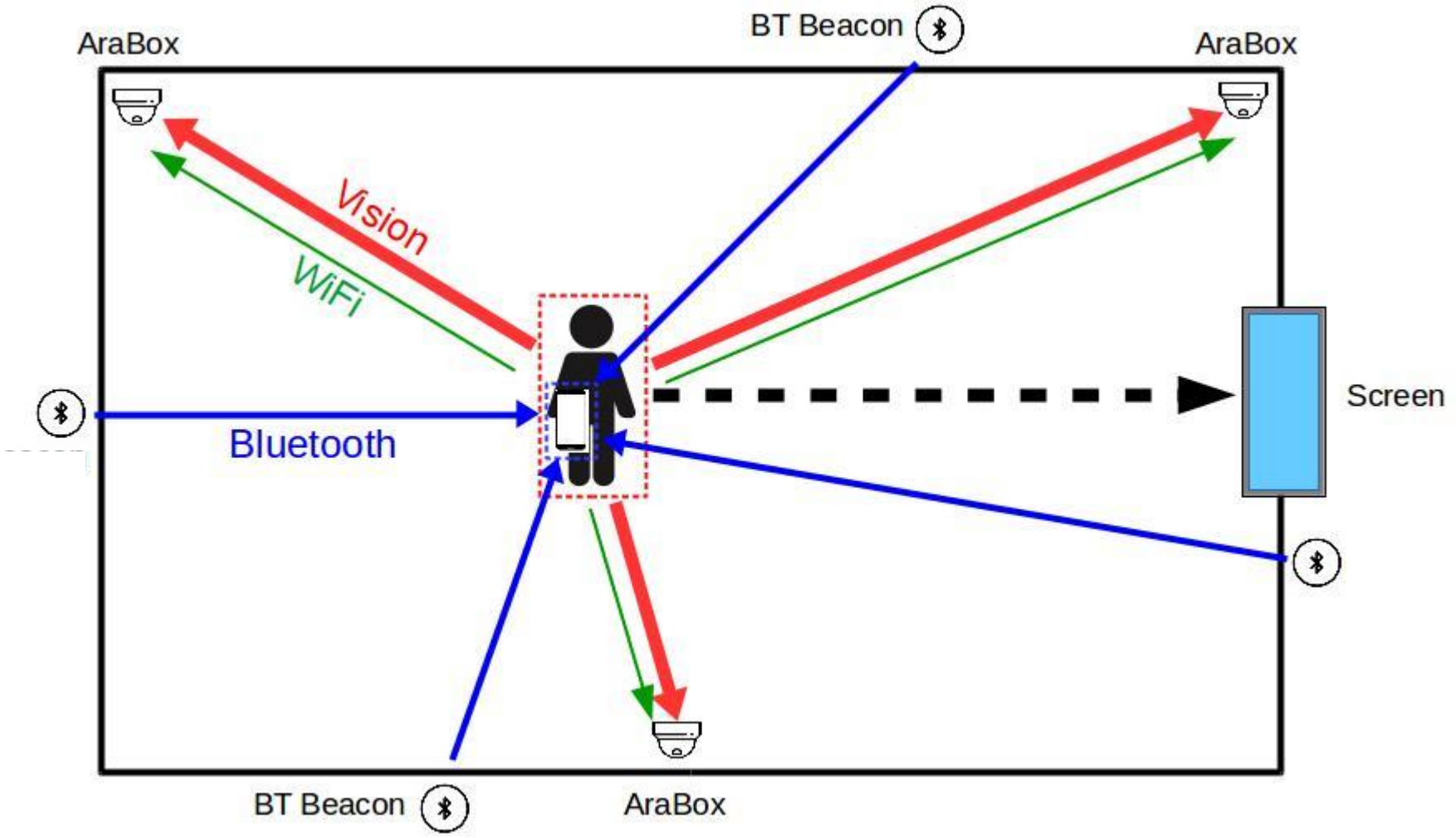
This competition – aiming at building models that predict whether particular customer success cases are going to escalate in future based on information about their up-to-now history – is an important step for Information Builders to provide their customers with better services relying on modern machine learning solutions.

More details regarding the task and the description of the challenge data set can be found in the **Task description** section.

Special track at IEEE BigData 2020. A special session devoted to the challenge will be held at the IEEE BigData 2020 conference. We will invite authors of selected challenge reports to extend them for publication in the conference proceedings (after reviews by Organizing Committee members) and presentation at the conference. The publications will be indexed in the same way as regular conference papers. The invited teams will be chosen based on their final rank, innovativeness of their approach, and quality of the submitted report.



How about encoding on-the-fly?



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Projekt „BlindBOX”

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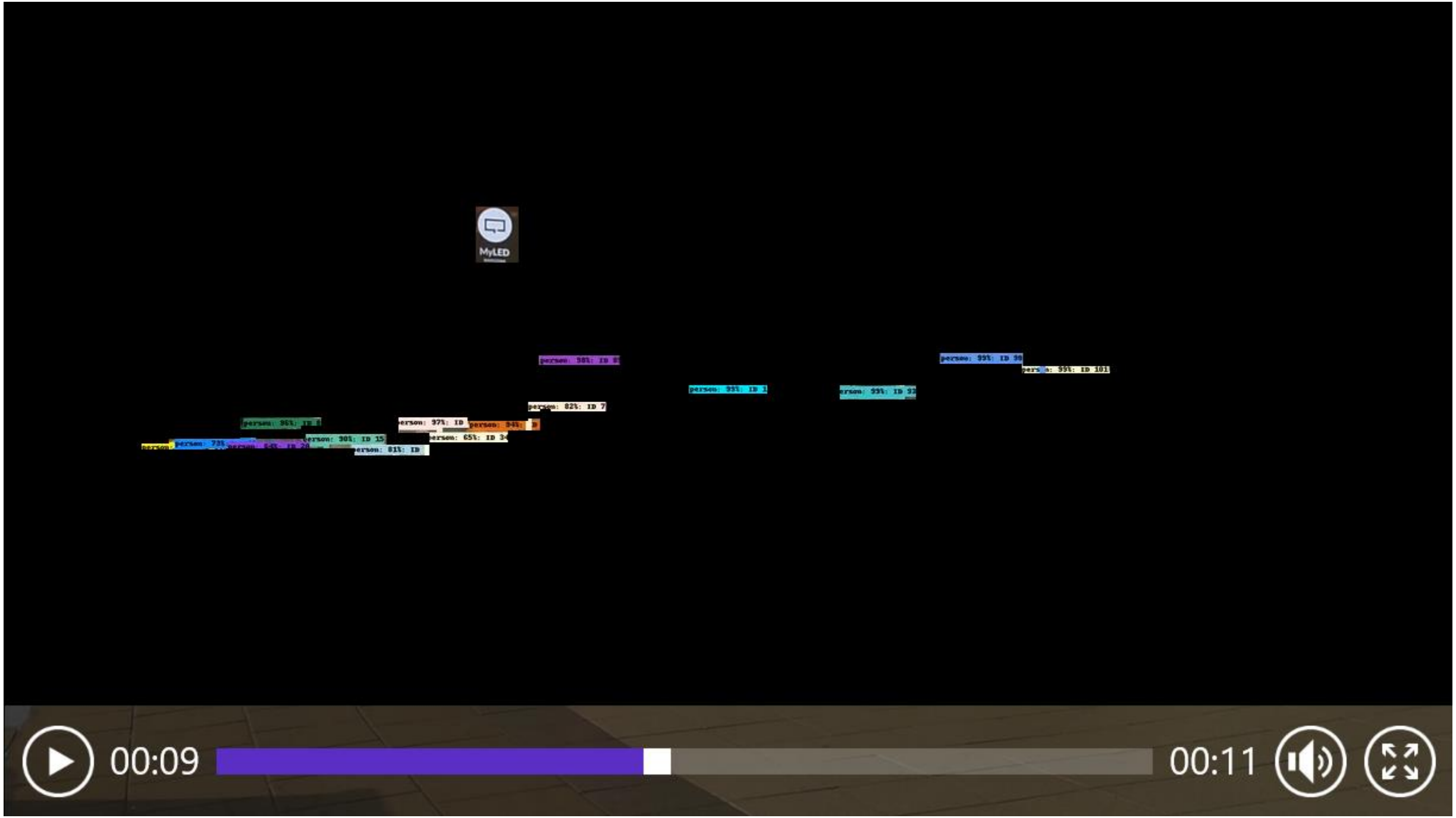
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Dziękuję!

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