afis-internet.org

Message from the Chair

Hello all!

First and foremost, I would like to thank the AFIS Internet Inc. members for this exciting opportunity as the Chairperson. I especially would like to thank the Co-Chairperson Ms. Cheryl Payton, as she has guided me through the AFIS Internet Inc. ins and outs, and owe her a great deal of gratitude. Through this process, I have quickly realized the amount of time and energy the board members put into this organization. Especially, our Secretary Carol Tonges. WOW, the amount of work she does, is amazing. Thank you Carol for such a great job! To our new regional and alternate representatives, welcome to AFIS Internet Inc., and thank you to all one-year regional representatives!

Also, a huge thank you to California for hosting the 2017 AFIS Internet Conference and making our conference such a huge success with all their hard work and planning and, also to the NEC staff who worked tirelessly at the conference. You all rock!

February 2, 2018

Our AFIS Internet Inc. executive board held its fall business meeting via teleconference on October 18, 2017. We discussed some exciting new topics, such as changing our organizational name to better identify all our biometric modalities, and the upcoming 2018 AFIS Internet Users Conference.

The 32nd Annual AFIS Internet Users 2018 Conference will be hosted by the Virginia State Police and the Department of Forensic Science. The theme will be "**Exploring the Diverse World of Biometrics**". The conference coordinator is Shannon Pounders, Virginia State Police; NEC representatives are Jessica Fuchino and Kelly Gallagher, along with members from the hosting agencies.

You can find information about our organization and conference by using our new internet website: www.afisinternet.org

I would like to encourage you to share with coworkers information about AFIS Internet Inc., including our conference updates, newsletters, success stories, and how beneficial their ideas and knowledge can be to our users. These small efforts can help build our membership, and make us even more successful!

If you have any questions, ideas, suggestions or comments, feel free to contact me or any individual on the AFIS Internet Board, our information is located on our website.

Respectfully,

Faith Contreras, Chairperson, AFIS Internet Inc.

Message from NEC

\Orchestrating a brighter world NEC

Message from Raffie Beroukhim

Sr. Vice President, NEC Advanced Recognition Systems

I would like to express my sincere gratitude and appreciation to the AFIS Internet Board for their dedication and efforts in 2017.

NEC's former biometrics division has had a very busy year and one of the most significant announcements for us this year was the rebranding of our division as NEC Advanced Recognition Systems (ARS). As I've previously shared, NEC's Advanced Recognition System selection of 3 key words, People, Patterns and Predictions, crystalizes our new mission and aligns our new solutions and services. Our primary mission is to serve citizens and the people who protect them. Whether keeping the public safe at home, supporting troops overseas, improving the experience of travelers, or providing the right identity at the right time, our advanced recognition systems supply trusted intelligence to help build safer and brighter communities.

There are several new and informative items that have been developed as part of our rebranding efforts, and I'd like to share a few of these with you.

- Have you seen our website? necam.com/AdvancedRecognitionSystems is your one-stop for all things ARS - from our latest use cases to our complete portfolio of identity matching solutions.
- Want to hear from the experts, but don't have a lot of time? View one of our recent videos for A Look Inside Biometric Identification Technology, understanding Facial Recognition Solution for Streamlined Passenger Experience or How Law Enforcement Uses Facial Recognition and Why.
- What's happening at ARS? It's easy to get connected for the latest news and announcement. From April through September, we've reach close to 125,000 people with messages about ARS and our solution portfolio, including a recent blog post on Protecting critical infrastructure and the fan experience with biometric face recognition which includes a link to our LPGA video.
- Where can I find ARS collateral? The newly created ARS resource page is where you will find the most current assets from ARS. You can learn about The Power of Identity, how NEC is testing facial recognition with U.S. Customs & Border Protection and much more.
- Have you Saved the Date? You may have seen our recent email on the 32nd AFIS Internet User Conference on August 26-29, 2018. Be sure to mark your calendar to join us in Reston, Virginia. Meanwhile, you can check out or relive the excitement of the 2017 conference by viewing our photo gallery, or our AFIS 2017 Recap Video.

I look forward to our continued partnership in 2018.

Raffie

Board of Directors

2017 ~ 2018 AFIS Internet Executive Board

Chair
Faith Contreras
Arizona Department of Transportation

Vice-Chair
Cheryl Payton
Georgia Bureau of Investigation

Treasurer
Leila McNeill
Idaho State Police

Secretary
Carol Tonges
City of Cincinnati, RCIC

Please email afisinternet@gmail if you need to contact any of the AFIS Internet, Inc. Executive Board members.

Secretary Report

AFIS Internet is in the process of going to an electronic method for membership and conference registration. For this past conference, I did try to use a product; however, it did not work well. I am in the process of setting up new software so that you can easily sign up for membership and later this year for the conference.

At the AFIS Internet conference the membership also voted in some new wording regarding membership. Your membership fee that was paid for the calendar year 2017 will now be valid until 6/30/2018. The membership year moved from a calendar year to July 1st of the current year through June 30th of the following year.

The dues for 7/1/18 – 6/30/19 membership year will be $45. If payment is not paid by the start of annual conference the membership is cancelled.

Be on the lookout for an email from me soon regarding the link to the new site to pay your membership fee.

Carol Tonges

Treasurer Report

Checking account balance as of 12/11/2017	$50,550.40
Savings account balance as of 12/11/2017	$33,694.18

No other news affecting the association finances.

Leila McNeill, CPM

2017 ~ 2018 AFIS Internet Region Representatives

Region 1

1 Year ~	Michael Gilliam	California DOJ
2 Year ~	Stephanie Trott	Riverside Sheriff CAL-ID
Alternate ~	Laura Lathrop	Visalia Police Department

Region 2

1 Year ~	Kathy Blades	Idaho State Police
2 Year ~	Jeff Rathman	Wyoming Div. of Criminal Investigation
Alternate ~		

Region 3

1 Year ~	Paula Wright	Indianapolis Metro Police Dept.
2 Year ~	Ed Zieverink	Hamilton County Sheriff's Dept.
Alternate ~	Gabe Keown	Philadelphia Police Department

Region 4

1 Year ~	Kathy Hill	Georgia Bureau of Investigation
2 Year ~	Mary Crawford	Virginia State Police
Alternate ~	Brian Delmas	VA Department of Forensic Science

Appointed Position

Conference Coordinator ~	Shannon Pounders	Virginia State Police

NEC Representative

Raffie Beroukhim ~	NEC Corporation

Acknowledgements

Get well cards were sent to Jessica Fuchino and Donna Kimmel-Lake.

Region Reports

Region 1 – No Report

Region 2 - Arizona—Faith Contreras provided the following update: "Arizona is going to pilot with New Mexico to run facial recognition in both states when an individual is applying for a CDL. Since we have NEC, and New Mexico has Morpho, both companies will work together to allow the interchange of information to prevent fraud."

Region 3

Pennsylvania and Philadelphia Update

1. Philadelphia PD
    a. Philadelphia upgraded its long standing AFIS with NEC Integrated MBIS and Archive System. The system went live in September of 2016. It features new customized workflows, enhanced algorithms, improved queue capacity, and an archive system. While the pains of transitioning to a new system are not fully behind us, we look forward to the system reaching it's fully envisioned potential.
    b. We have completed the upgrade and replacement of our Mugshot system and Live Scan systems with Dataworks New All-In-One Units. The ability to process both Mugshots and Fingerprints in the same system improves the processing times and workflows necessary in our Booking Centers.
        i. All booking centers in Pennsylvania that captures Mugshots and Fingerprints electronically utilize the same vendor. The majority of the Booking Centers have been upgraded to the All-In-One systems.

Our CCH system is in the process of being replaced and we hope to award a contract in the very near future. The new system will ensure we have a system that allows us to maintain accurate criminal history information and workflows that provide improved interfaces between the different systems

Region Reports

- Pennsylvania
  - Mobile ID
    - The Pennsylvania Chiefs of Police Association through a grant from the Pennsylvania Commission on Crime and Delinquency's Local Technology Workgroup and in cooperation with the Pennsylvania State Police is providing Mobile ID equipment to police departments to conduct fingerprint searches from the field.
    - In cooperation with the Pennsylvania Justice Network, the Association has established a secure server and infrastructure to receive the transmissions from the Mobile ID device and transmit it securely to the Pennsylvania State Police Automated Fingerprint Identification System (AFIS).
    - Through the grant, the Association will be providing DataWorks Plus Model Evolution Rapid ID Device. These devices will operate on a managed secure cellular network that will be included with the device. The grant provides the devices and the first year's cellular service. After the first year, the police department will be responsible for maintenance fees and cellular service. http://www.pachiefs.org/mobile-fingerprint-id
- Currently there are 158 units deployed across the state with the following response times: AFIS 2minutes / RISC 1 minute
  - Total transactions: 2,125
  - PA AFIS Hits: 1,779
  - FBI RISC Hits: 131
  - FBI RISC Hits w/out PA AFIS Hit: 28
- Success stories:
  - The Middletown Twp. Police on 07/19/2017. He wished to relate a success story with the new Mobile ID System that his agency recently was approved for, and is now using. He was involved with the search and recovery of the four men that were missing and later found deceased in Bucks County. Using the mobile ID on one of the subjects that had been doused in gasoline and buried in the dirt for several days, he was able to clean a finger enough to get a usable print. The results were returned within four minutes, and a positive identification was made on one of the deceased men. https://www.nytimes.com/2017/07/12/us/arrest-missing-men-bucks-county.html
  - Sgt. Kroiss was excited to share the usefulness of the MID with us and many of the other agencies involved. He related that all of the agencies involved including the FBI, were impressed by the functionality of the MID.

Region Reports

October 2017 – While investigating a fraud case at Wal-Mart, one of the subjects provided a false name. The Officers used Mobile ID to establish the true identity. The person was wanted on criminal charges in Florida and was using various aliases. The same 2 suspects were then linked to breaking into vehicles, stealing credit cards and using them at Wal-Mart.

The Pennsylvania Chiefs of Police Association is using a National Criminal History Improvement grant through the Pennsylvania Commission on Crime and Delinquency to provide both hands on in-class and online training to 25,000 municipal police officers, sheriffs, probation/parole officers and corrections officers on a number of offender identification topics. The in-class course topics include "electronic booking and biometric capture" and "Using arrest and biometric data to solve crimes." The Booking course covers how to properly record the offender's arrest and demographic data, properly use Livescan to capture finger/palm prints and use the Commonwealth Photo Image Network (CPIN) to capture facial images, scars, marks and tattoos. This is a hands on course where a portable Livescan/CPIN systems gives each trainee the opportunity to learn the required techniques. The second in-class course explains how the police can use the arrest, demographic and biometric data to solve crimes using the Pennsylvania Justice Network (JNET), the JNET Facial Recognition System (JFRS), the JNET CPIN for line-ups, the Latent Remote System for latent fingerprint searches and the new hand held mobile identification devices for in-field fingerprint identification.

The Association is using its Pennsylvania Virtual Training Network (PAVTN) to provide the same training virtually online, making it available 24x7, 365 days a year. The PAVTN has 54 courses including these offender identification courses. Courses on the PAVTN have won national and international awards for interactive training and instructional design. During January, over 3300 officers took courses on the PAVTN. Police Officers can also complete their yearly mandated training through the PAVTN, and they also have a choice of many approved continuing law enforcement education credits.

Next month, the Association will mail out USB flash drives with new training manuals, videos, and printable posters to 1500, police departments, sheriffs, probation/parole offices, and corrections facilities to assist them with offender identification including properly recording the offenders demographic data, capturing their finger/palm prints and their facial images, scars, marks and tattoos. Included in the mailer is material stressing the importance of how proper processing at the time of arrest provides public safety and assist other criminal investigation.

Christopher J. Braun

Region Reports

Pennsylvania Facial Recognition – In Pennsylvania, authorized law enforcement can access the state's Justice Network (JNET) to conduct Facial Recognition searches. They utilize the NEC for searches against the criminal databases and are connected to Pennsylvania Department of Transportation (PennDOT)'s facial recognition system. Successes:

Stolen ID

A wallet was stolen from an employee at hospital and the victim's credit card was subsequently used. Officer obtained a still image from video of a transaction at a nearby Starbucks and did a search in facial recognition. The first response was eventually confirmed as being the suspect. After additional investigation, the officer discovered that suspect had done the same exact thing before, and also had a unique tattoo that helped confirm her identity. The suspect was arrested and convicted of the theft.

Facebook

Adult male using a fake Facebook page started "online dating" a juvenile female. The two exchanged nude photographs. Facial Recognition was used to run one of his Facebook photos and it identified him as our suspect.

Burglary

Burglary suspect dropped a cell phone fleeing a scene. Selfie still from a video on the device identified the suspect.

Retail Thefts

A male and female committed a few retail thefts for a few hundred dollars each at local grocery store. The grocery store has a low level facial recognition system built into their surveillance. The system matched the female's images to an image they already had on file, but it was a Jane DOE.

Purse Stolen

A 16 y/o female left her place of employment at a restaurant in a shopping center and drove about one mile to her house and pulled in her driveway. She noticed a vehicle followed her from the shopping center to her home. At this time, the vehicle pulled in behind her. An unknown male got out of the vehicle, approached the female while she was still seated in her vehicle and he grabbed her purse from her lap. The female provided a description of the suspect as a white male with a bald head and a gray t-shirt. Officers canvassed the area of the shopping center and obtained surveillance video from convenience store in the area. A male matching the description of the suspect entered the store about one hour prior to the robbery.

Robbery

The detective was not able to upload the video into the facial recognition program so he took a photograph of his computer monitor. He uploaded the image and ran it through the facial recognition system. A top candidate from the NEC search was an arrest photograph from 2002 which was the most recent arrest. In 2002 the suspect had a full head of hair. Lookup of the most recent driver's license photograph confirmed suspect now bald. The officer eventually interviewed the suspect who admitted to the robbery. The case is currently listed for trial.

Bank Robbery

A bank robbery actor was in a supermarket next door just prior to committing a bank robbery. The supermarket was unable to download the video but the patrol officer took a photo of the security camera monitor with the suspects face at a bad angle. Using facial recognition, a detective was able to rotate and center the face and come up with a candidate within a few hours of the robbery. The candidate was put into a photo lineup and was identified by the victims. A warrant for his arrest was issued and the victim pled guilty to robbery just prior to a jury trial with a 14-30 year sentence. He is awaiting trial for another area bank robbery. According to the detective, “It’s a good example of how you can work with a pretty crappy photo and get good results.”

Identification of Deceased

Local law enforcement was looking to ID a John Doe that was found deceased of an overdose in the bathroom of local convenience store. Deceased had no ID so they were having a hard time ID'ing him. A detective tried several attempts--manually setting the points on the face each time working with two different photos of the victim. The third search it matched against the victims old PA drivers license (no PA arrests), he had since moved to North Carolina. Using the victims name the detective was able to locate him on social media and match the photos of his tattoos. Positive ID was made by comparing his fingerprints from a North Carolina arrest. A good example of working a good photo several times manually to get a result.

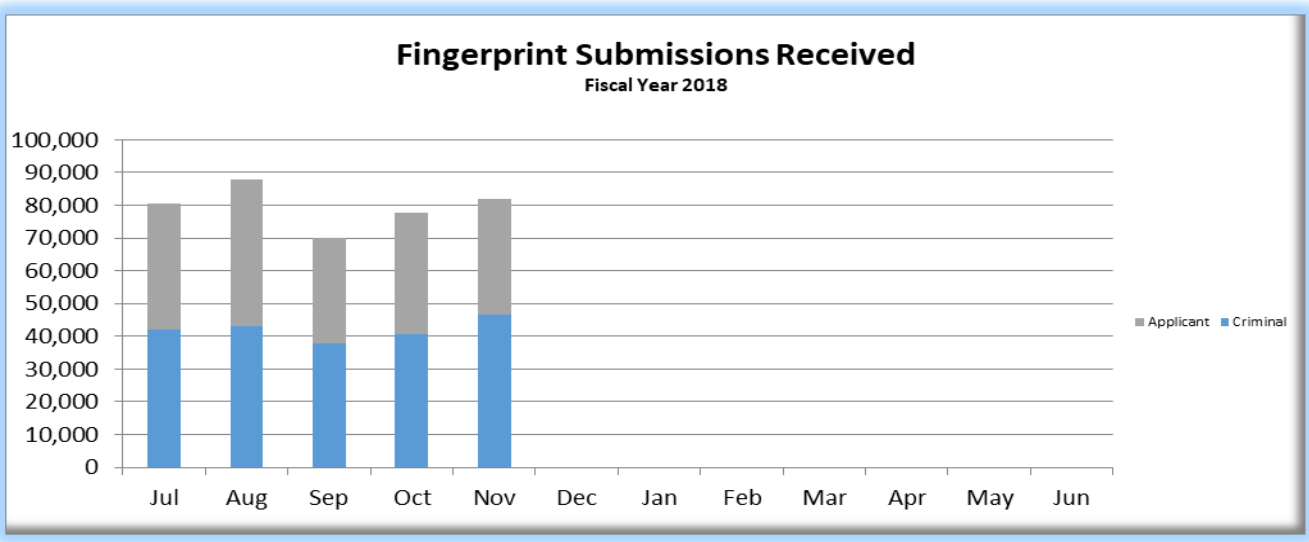
Region 4 –

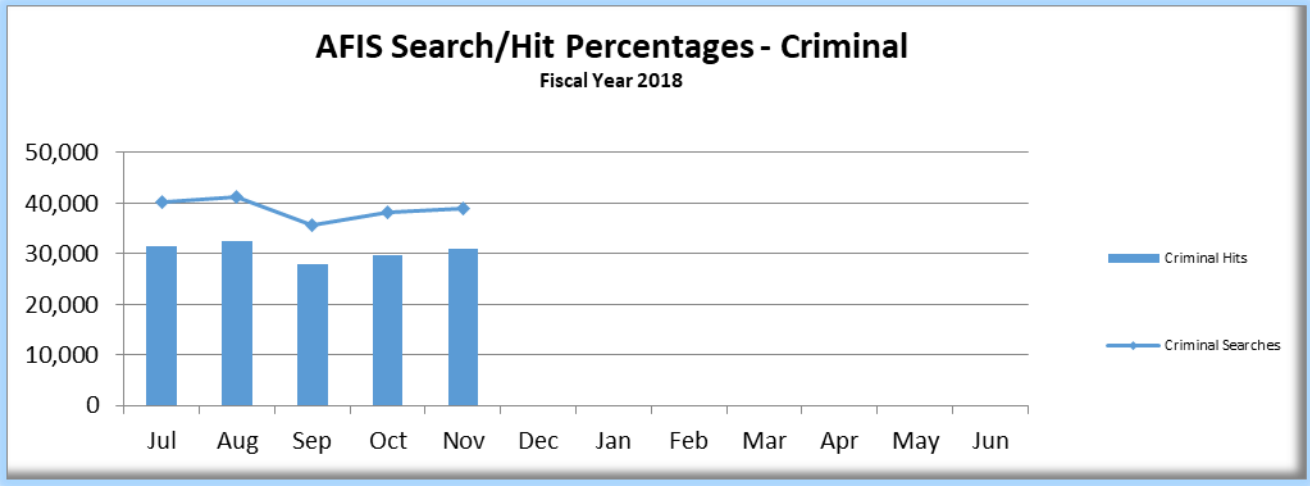
Virginia

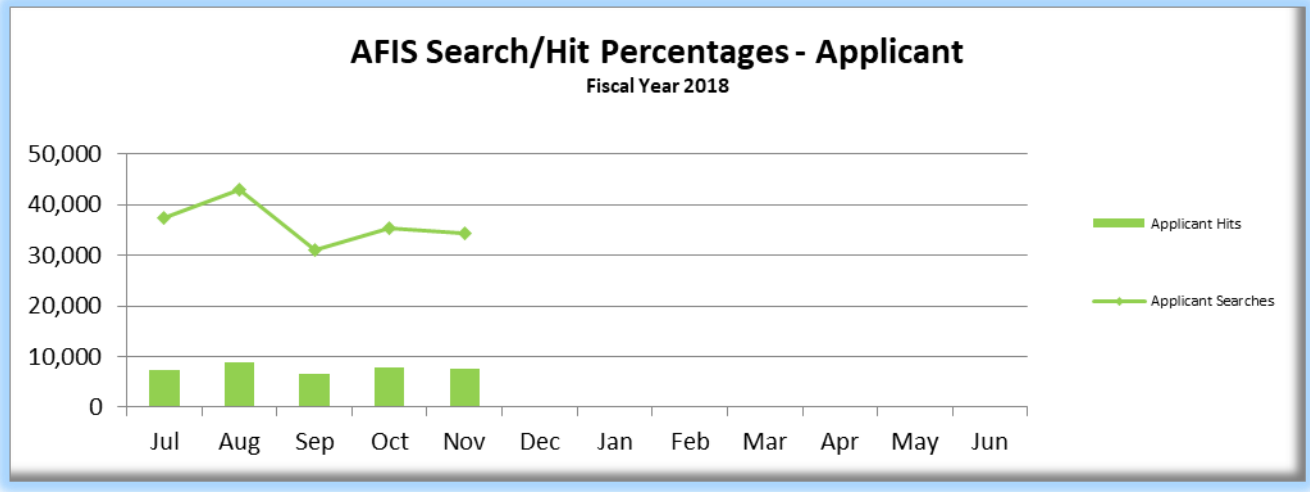
	Dec 2017	Total 2017	% Live Scan	% Card Scan
Criminal	21,408	274,013	97.7%	2.3%
Applicant	14,851	225,777	83.8%	16.2%
TOTAL	36,259	499,790		

Region Reports

Georgia

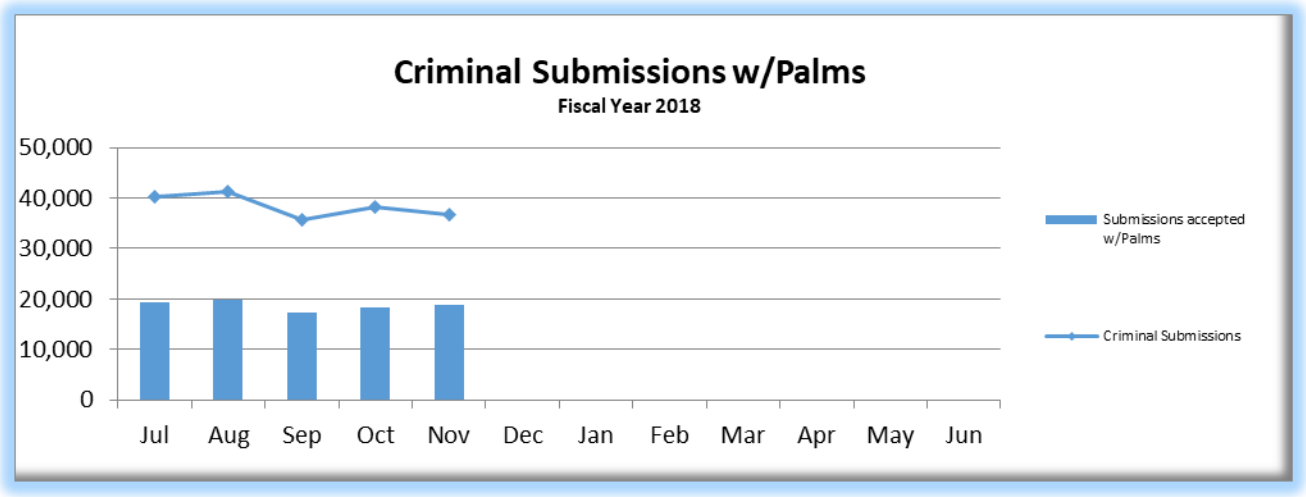


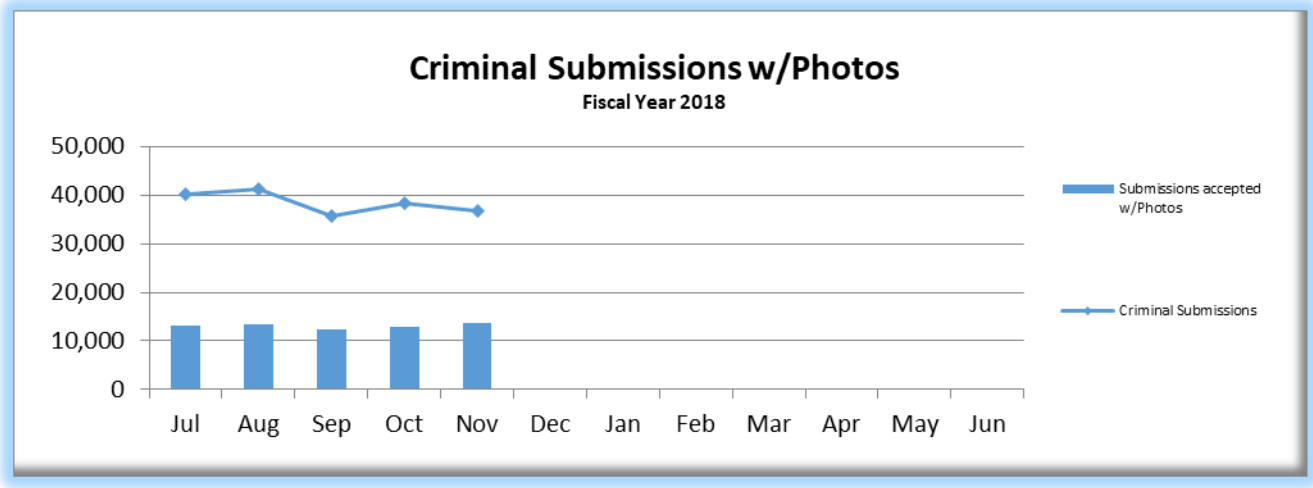




Region Reports

Georgia





As Seen on TV: NEC Provides Powerful Crime Solving Face Recognition Software to Law Enforcement

By Lee Kicker, Sr. Account Manager, Advanced Recognition Systems, NEC Corporation of America

If you're a fan of any of the detective shows available on television and streaming services, you've probably seen an episode or two where a crucial part of solving the fictional crime is using face-recognition software to identify potential suspects. It's the digital version of an old-fashioned police lineup. The scenario usually involves detectives finding an old photo or obtaining some grainy security camera footage of a suspect. They turn it over to a colleague in a crime lab, where the photograph or video is quickly processed to identify the subject.

While it may not work exactly as seen in the movies or on a television crime drama, this type of digital matching technology is very real and in use today. With more people having camera equipped cell phones and individuals and business installing surveillance cameras, the amount of available video evidence that can be used to solve crimes has greatly increased. Not having the ability to leverage security video footage and photo evidence can be costly and time consuming for law enforcement departments with limited resources and heavy caseloads.

NEC's Advanced Recognition Systems (ARS) group has a long history of providing the latest biometrics technology to government customers like our NeoFace® Reveal software, NEC's high-speed matching facial recognition system. When it was independently evaluated by the National Institute of Standards and Technology (NIST), part of the U.S. Department of Commerce, NEC's NeoFace® algorithm achieved the highest performance evaluation as the most accurate face recognition solution on the market for "one-to-many" video searching.

Watch the video to see how NEC's ARS group worked with the City of Irving Police Department on a deployment of NEC's NeoFace® Reveal facial recognition software, which has resulted in high success rates in providing fast, accurate suspect identification intelligence. It has led to increased public safety and decreases in departmental costs by saving detective man hours and reducing the need for added personnel.

NEC Updates

The U.S. Customs and Border Protection (CBP) has initiated a pilot test of NEC Corporation of America's commercial-off-the-shelf (COTS) NeoFace® Express device and cloud-based NeoFace matching as key facial recognition components of a frictionless biometric exit process in Dulles International Airport.

As part of this technical demonstration, CBP is partnering with TSA to utilize international travelers' photographs taken at TSA's Terminal 7 international checkpoint to compare against travel document photographs.

"As we continue to deploy technical demonstrations, CBP is assessing the use of biometric technology as part of a future end-to-end process, from check-in to departure, in which travelers use biometrics instead of their boarding pass or ID throughout the security and boarding process," said John Wagner, Deputy Executive Assistant Commissioner, Office of Field Operations.

John Wagner, Deputy Executive Assistant Commissioner, Office of Field Operations

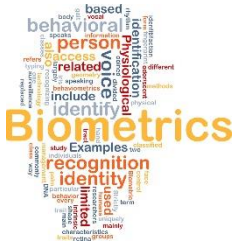
"Expanding these demonstrations to the TSA process is the next step in CBP's goal of transforming and improving air travel—making it smoother, seamless and more efficient for travelers—while also enhancing the security of the process."

As in CBP's current biometric exit technical demonstrations, CBP will use the flight manifests to build a photo gallery of travelers boarding international flights using travelers' images from passports, visas, and other travel documents.

When travelers on outbound international flights reach the TSA ticket document checking podium, the TSA officer will review the traveler's boarding pass and identity documents in accordance with TSA's standard operating procedures and will then direct the traveler to a camera placed next to the podium.

CBP has deployed biometric technology at a single gate at eight U.S. international airports as part of the agency's implementation of a biometric exit system.

Hit of the Year



Latent Hit

Please note that while the incident and biometric hit occurred in 2015, the case was only recently adjudicated.

- *On March 26, 2015 a man was found deceased inside his residence. The subject had suffered over 50 stab wounds to the face and neck areas. The scene was processed by the Michigan State Police Crime Scene Response Team, which included Sgt. Amanda Crooker. Sgt. Crooker collected several latent lifts from items in the kitchen area including the sink, a glass, and several drink cans. Bare foot impressions in apparent blood were also collected from the kitchen floor.*
- *Three latent fingerprints and two latent palm prints were entered into AFIS but no candidates were developed. The prints were registered in the unsolved latent database.*
- *On July 18, 2015, a law enforcement agency finger- and palm-printed a female for an "ID verification only" check. At that time AFIS sent a T/LI response on one of the registered palms. As a result; Sgt. Crooker identified seven latent prints to the AFIS T/LI candidate. Subsequently, the agency investigating the homicide (after receiving a confession and making an arrest of the subject generated by the AFIS T/LI) collected and submitted her known sole print impressions. Sgt. Crooker also identified seven bare foot impressions to the AFIS T/LI candidate.*
- *It was determined that, before the arrest on this case, the AFIS T/LI candidate had not been in either the AFIS or CODIS databases. The AFIS T/LI candidate turned out to be a prostitute (with no prior arrest record) which the investigating agency was not aware of and did not have any information for until they were notified of the results of the exam triggered by the AFIS T/LI. Several other persons of interest the agency developed had been excluded.*
- *In January of 2017, the AFIS T/LI candidate pled guilty to 2nd degree homicide and was sentence to 25 - 50 years.*
- *Had it not been for the "ID verification only" check done by another agency and the subsequent AFIS T/LI, this case might still be unsolved.*

Submitted by Sgt. Amanda Crooker, Michigan State Police

Facial Hit

As the result of a facial recognition investigation Detective Richerson and the Office of Inspector General Criminal Investigations Unit executed a search warrant at the residence of a suspected identity theft subject. The 51 year old female suspect was unaware of the existing technology and applied for multiple identities using stolen documents from victims in other states. The suspect was no stranger to this lifestyle as the investigation proved she used the identities to receive such benefits as welfare from the State, assistance from veterans groups and collected a workplace accident settlement under one of the stolen identities, not to mention an extensive criminal record under her true identity. She furthered her scheme by obtaining employment under another stolen identity for a hospital billing service, giving her access to a treasure trove of credit card and personal information. The suspect was arrested and booked on multiple identity theft and forgery charges. This investigation is one way the facial recognition technology is helping protect the citizens in Arizona and beyond.

Submitted by Detective Keith Richerson, Arizona Department of Transportation.

Conference Information

Planning is underway for the 2018 AFIS Internet Users Conference, scheduled for August 26 – 29, 2018, in Reston, Virginia. This year's theme is "***Exploring the Diverse World of Biometrics***" and many exciting events and speakers are being scheduled. The Virginia State Police and the Department of Forensics Science will host this year's event.

Please let us know if you have any specific topics your agency would like addressed. We have invited guest speakers from many different areas of expertise, including Navy Criminal Intelligence Services (NCIS), Department of Homeland Security (DHS), U.S. Department of Defense (DOD), and the Virginia State Police (VSP). We are excited and confident all who attend will find the 2018 AFIS Internet Users Conference both educational and entertaining.

If you would like to reserve your hotel accommodations now, please use the following hotel link https://aws.passkey.com/go/AFISInternetConference. Also, you can always visit the AFIS Internet website for the most recent updates to the conference planning and events scheduled at www.afisinternet.org

AFIS INTERNET INC.