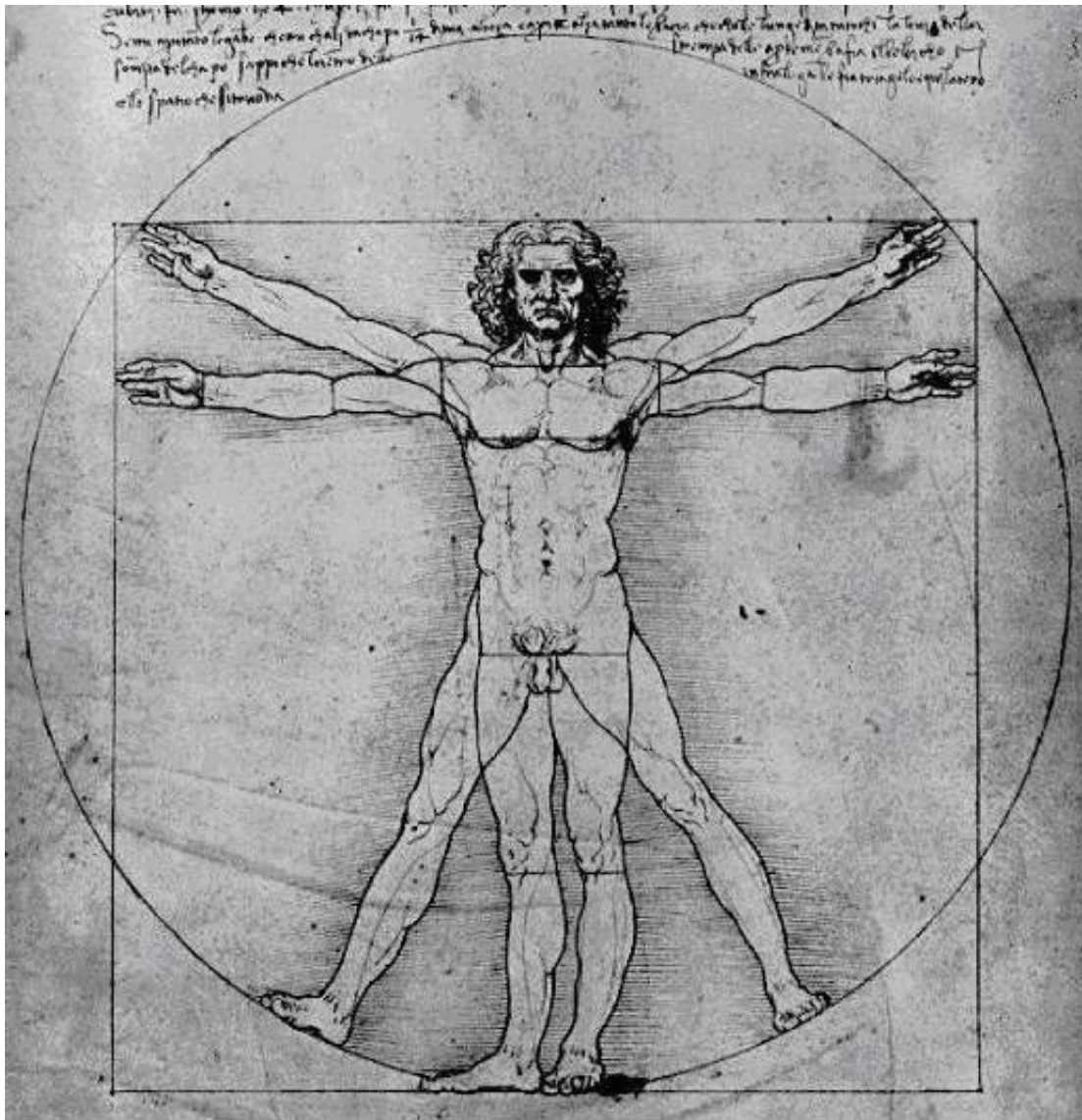


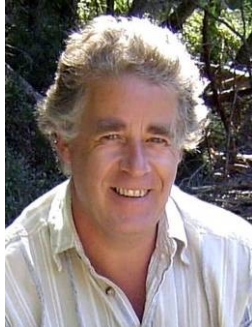
# ► Biometrics Newsletter 01

Week 01 2012

Rene Bense ► ► 06-January-2012



## The Biometric Weekly Newsletter 2012 number 01.



Please give me feedback on the Newsletter and the website, so I am able to improve and extend. For new readers who missed the url of my website, here it is:

[www.biometrics4you.com](http://www.biometrics4you.com)

Write me on: [rene.bense@xs4all.nl](mailto:rene.bense@xs4all.nl)

Regards, René Bense

### [No work for UIDAI after January](#)



Govt's unique identification body still in search of a clear identity. The work at the United Progressive Alliance (UPA) government's much-hyped initiative to provide unique identification numbers, 'Aadhaar', to all Indians may get stalled from February.

Even after almost two years of the creation of the Unique Identification Authority of India (UIDAI) under the chairmanship of Nandan Nilekani on January 28, 2009, the project is still awaiting a clear mandate. In the absence

of a clear direction from the government, UIDAI may well stop its operation of enrolling people for 'Aadhaar' numbers from February next year

- UIDAI enrolment for Aadhaar crosses 165 million
- Enrolment set to touch 200 million by January-end
- Authority registering one million people every day
- UIDAI can't go beyond 200 million, for which it has the mandate
- Cabinet yet to take a final call on UIDAI future direction

According to UIDAI officials, the authority has already enrolled over 165 million people and by the end of January, the number is set to touch 200 million, as it is adding around one million people every day across the country. And, the authority can't go beyond that number till it gets permission from the government.

UIDAI has the mandate to enrol 200 million people for Aadhaar numbers till March 2012, but with the authority slated to reach that number in January itself, the fate of the whole project is hanging in the balance. The authority has already issued more than 101 million Aadhaar numbers to people across the country.

The responsibility of finding an answer to the extension of UIDAI's work now rests on the Cabinet. Now that's tricky. Government officials told Business Standard that a decision in this regard might have come earlier, if the home ministry had not raised security concerns over UIDAI's enrolment process.

With the home ministry's reservations on accepting Aadhaar verifications in the ongoing National Population Register (NPR) creation, there is duplication in identification work as both the bodies are collecting biometric records.

## [Biometric Identification Will Replace Many Passwords In Next Five Years, Says IBM Scientist](#)



Passwords have been around since ancient history, but they may become obsolete sooner than you think. [According to a recent prediction by IBM Speech CTO David Nahamoo](#), many of the problems with passwords will be solved by biometric systems that can identify individuals based on unique biological features.

It's not just fingerprints, DNA and retinas anymore; [the way you walk](#) is unique and so is [the way you type](#), for example. Orwell references may be inevitable, but the technology can be used for good as well, aiding in various interactive systems, from [video games](#) to [cars](#) to [iPads](#), and otherwise making it easier to prove that you're you.

For a long time, it was hard to use biometrics quickly and accurately in our daily lives, but the combination of various identifiers may make the systems convenient enough for widespread use.

[A recent column in InformationWeek](#) points to the United States Visitor And Information Status Indicator Technology (US-VISIT) as a prime example of a system that's been able to scale: "The enrollment and validation of these attributes is fast and accurate enough for use in everyday, large-scale deployments, and the

Department of Homeland Security just announced it will pay Accenture Federal Services \$71 million over 13 months to further improve the system."

There's also [India's massive biometric census project](#), which is underway and aims to document all of the country's residents over the age of 15. When it's completed, the country will have unprecedented knowledge of its population, and the universal ID cards that will be created as a result promise to streamline many Indians' daily lives, from taking out loans to enrolling in school to paying taxes.

Scientists have also gotten smarter about denying access to fakers; a body of research within biometrics has developed that's [devoted entirely to spoofing irises, faces and other data sources](#).

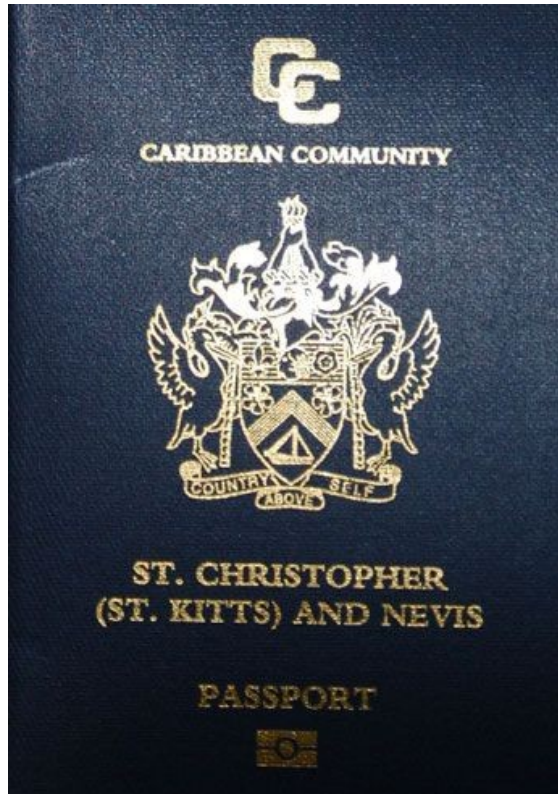
Early fingerprint scanners were notoriously easy to fool, with tools as simple as a plastic bag filled with water, but researchers at SUNY Buffalo [have developed techniques](#) to test for the "liveness" of their input sources. Not only will sensors be able to track matching fingerprints and faces, but they'll correlate them with heartbeats and bodily movements to make sure that everything checks out.

On the individual misuse of Biometric IDs, Nahamoo reassures us:

"We've all seen the thriller sci-fi movies where a person is forced by the villain to scan their eye or finger to unlock a door. But that's fiction. In reality, ATM cameras using facial and iris recognition may be able to detect stress, pupil dilation, and changes in heart rate and breathing patterns to establish a confidence level that the user is not in danger."

That sounds plausible, but we're not sure if it makes us feel more secure or less.

## [St. Kitts and Nevis issues biometric passports](#)



St. Kitts and Nevis begins issuing new E (Biometric) passports from January 5th, the Ministry of Foreign Affairs, Homeland Security, Labour and Social Security has announced.

The Ministry said in a news release that the new passports, with several improved security features, are being introduced as part of government's ongoing efforts to prevent fraud and identity theft consistent with its regional and international commitments.

The Passport Office will issue the new E - (Biometric) Passports to citizens and residents, who are applying for the documents for the first time, or to those requesting replacements.

Citizens and residents currently using the machine readable passports will continue doing so, once these are not expired, lost and or damaged.

They will not, at this time, be required to change to the new E - (biometric) Passports; until the old document has expired.

Information on the various fees to be applied through the purchase of stamps for the issuance of the new E Passport can be obtained from the Passport Office, Ministry of Foreign Affairs, Homeland Security, Labour & Social Security, Government Headquarters, Church Street, Basseterre.

The Ministry said that introduction of the new passport has become necessary given the regional and global efforts to improve security.

"The new document to be issued by the Government of St Kitts and Nevis is more secured and designed with specific imbedded features intended to enhance the integrity of the new E Passport and will facilitate more seamless travel by citizens and residents of the Federation.

## [Tiger IT creates AFIS/Iris matching system for Bangladesh's RAB leveraging Lumidigm Advantage](#)



TigerIT Bangladesh Limited

[Tiger IT Bangladesh Limited](#) introduces a complete criminal identity solution, including iris and fingerprint biometrics and a database upgrade, to the Rapid Action Battalion (RAB) office in Bangladesh.

Tiger IT sought out Lumidigm's reliable Venus fingerprint sensors for the project in order to provide the RAB with the best tools available for tracking and investigating criminal activities.

"Lumidigm has an advantage, in that their multispectral imaging technology collects unique fingerprint characteristics from both the surface and subsurface of the skin," explains Rifat Abedin, Tiger IT vice president of business development. "The additional fingerprint characteristics that Lumidigm sensors capture allow for improved accuracy in identification and verification, even with an uncooperative suspect."

Tiger IT began work on the project in June and has successfully migrated the original RAB database into the new files. Training was provided by Tiger IT and concluded in October. Tiger IT provided resources in areas such as data migration from the existing system to the new system, de-duplication of records, enrollment application for capturing demographic and biometric data, the AFIS and iris matching system, database system and installation of all software and hardware.

"This was an exciting criminal tracking project for Lumidigm," says Sujan T.V. Parthasaradhi, Lumidigm's director of biometric applications. "We know that Lumidigm technology works exceptionally well in civil ID and secure border control applications and, together with top AFIS provider Tiger IT, we got a chance to bring it to Bangladesh."

### [Correctional News Participates in Technology-Centered Executive Focus Group](#)

Correctional News participated in a collaborative forum to help executives identify agency needs regarding the use of inmate telephones in investigations.

Alex and Dorothy Fox of ADF Consulting developed and facilitated the Executive Focus Group, which was held Nov. 11, 2011, at the National Domestic Preparedness Coalition headquarters in Exeter, R.I.

The program brought together correctional and law enforcement industry leaders and a private sector technology company, JLG Technologies. Mass.-based JLG develops and

provides advanced biometric voice recognition technology that assists correctional agencies in gathering telephone intelligence for corrections investigations.



The forum created a unique opportunity for industry leaders to impact the research and development of technology that benefits the corrections and law enforcement fields. Conversely, the private-sector company had an opportunity to learn from subject matter experts and obtain critical input to help shape its product and the company's direction.

The Foxs' spent many years as correctional administration professionals, as well as working in the private sector, and have seen both sides of the fence.

### [Heathrow chaos expected over Olympics](#)

Long delays and huge queues at Heathrow Airport will be par for the course during the Olympics, leaked policy documents for the UK Border Agency have revealed.

According to the Daily Mail newspaper - which claims to have seen the documents - the influx of visitors to the UK ahead of and during the 2012 Games this summer will cause long queues and may cause hold-ups for non-Olympic passengers as arrivals connected to the Games are given priority.



A fast-track scheme for 25,000 athletes, officials and coaches will be at the expense of other travellers, according to the tabloid.

Heathrow is set to handle a massive 80 per cent of Olympics-related traffic. The collection of biometric data - including fingerprints - is particularly likely to cause delays, it is reported.

The policy documents read: "The collection of biometrics may result in [passengers being] unduly delayed passing through border control.

"Dedicated lanes and the time taken to collect the biometrics of GFM [Games Family Members] may result in delays to non-Olympic passenger journeys."

Heathrow is not the only major transport hub to be affected by priority treatment for Olympics officials and VIPs. London's road network is expected to come under significant pressure thanks to reserved lanes for chauffeuring officials and VIPs to Stratford, with everyday traffic forced to occupy the remaining space.

Passengers on Tube and bus services are also expected to rise by 25 per cent.

The worst day at Heathrow is expected to be August 13, the day after the closing ceremony. Around 218,000 bags are estimated to pass through the airport as the event leaves London.

But a Heathrow spokesman told the Mail that the airport would cope.

"Around 15 per cent of the bags will be outsize sporting equipment, such as canoes, vaulting poles or bikes, which cannot be processed through normal baggage systems," he said.

### [Good Technology Collaborates with Dell and Other Partners to Deliver New Military Grade Secure Android Devices for U.S. Department of Defense \(DoD\) Agencies](#)

Good Technology, the leader in secure multiplatform enterprise mobility, today announced that the first secure Android OS-based platform has been certified by the Defense Information Systems Agency (DISA), which will allow Good for Government™ mobile device management and data loss prevention capabilities to be used on the Global Information Grid (GIG).



Using the new solution ("Secure Android"), U.S. Department of Defense (DoD) personnel will be able to sign, encrypt/decrypt e-mail, utilize a secure partition on the Android device for business applications, and securely access Intranet-based content anytime, from anywhere. This is the first STIG-certified Android OS solution that meets the requirements set forth by DoD Directive 8100.2, which mandates use of secure, multipurpose internet mail extension (S/MIME) in conjunction with a DoD common access card (CAC) and interoperability with the Department of Defense Public Key Infrastructure (PKI).

The Secure Android OS was first approved for use on government networks with Dell Streak 5 devices. As part of today's announcement, Good Technology also introduced its Secure Android Partner Program, a joint development initiative targeted at working with device makers interested in leveraging Good's expertise in developing STIG compliant solutions.

Good Technology initially worked with Dell to augment the security framework contained within Android and deploy it on Streak 5 devices.

The secure Android platform leverages Good for Government technology to provide secure access to information stored within a command's enclave and usually only accessed with desktops/laptops, such as command and control programs, as well as access to a number of powerful business applications on Dell devices that allows members of the military to operate with desktop-like capabilities in a protected mobile environment. Employees can also access critical agency resources behind the firewall, such as intranets or other web-enabled applications, through an integrated secure browser.

[Cisco, General Dynamics C4 Systems, Panasonic Security, Videx, Wave Systems and Biometrics Associates Discuss Security Solutions](#)



CISCO Mr. Roy Skillicorn, Senior Director, Video Services line, Cisco, said, "Cisco Services and our partners have a deep knowledge of both the network infrastructure, including security solutions that require use of the network, and the video application layer.

We and our partners can therefore work with customers on solving questions like: How do you send video to mobile endpoints like tablets? How do you enable interoperability across protocols?"

For the complete interview:

[http://www.securitystockwatch.com/Interviews/in\\_Boardroom\\_cisco\\_RS.html](http://www.securitystockwatch.com/Interviews/in_Boardroom_cisco_RS.html)

### [TruTouch Technologies U.S. Patent Issues](#)

[TruTouch Technologies](#), a pioneer in non-invasive biometric intoxication detection systems, today announced that it has secured a U.S. patent that protects the use of its noninvasive optical technology for the detection of alcohol in operators of automobiles and machinery.



The patent, titled "Apparatus and Method for Controlling Operation of Vehicles or Machinery by Intoxicated or Impaired Individuals," discloses several embodiments of the TruTouch alcohol technology that enable a rapid, noninvasive alcohol test that is verified to have come from the person seeking to operate the vehicle or machinery. The use of the TruTouch technology effectively precludes the potential for circumvention of the alcohol test, and therefore ensures safe operation of vehicles and machinery equipped with the TruTouch device.

Dr. Trent Ridder, CTO of TruTouch, said, "This patent represents the completion of a significant milestone in the protection of the TruTouch alcohol measurement technology. The TruTouch measurement offers employers, individuals, and society in general, an improved method for ensuring safe operation of vehicles and machinery whether in the workplace or on public roads."

The TruTouch products use an advanced intoxication detection technology that uses light to measure a subject's alcohol level instead of bodily fluids or other means. With TruTouch, a test subject places their finger on a near infrared measurement system, which then analyzes the alcohol concentration in the subject's system. The device can produce accurate results in seconds, and has a built-in biometric identification system to ensure test result integrity.

Unlike a Breathalyzer, the TruTouch products require no user training, no disposables, no samples and no operator assistance is required.

Current and future TruTouch applications include:

- Workplace Safety Systems
- Medical Diagnostic Systems
- Alcohol Point-Of-Sale Liability Reduction Systems
- Law Enforcement Systems
- Industrial Safety Systems
- Vehicle Safety Systems

### [10 million-odd voters in electoral rolls](#)

KATHMANDU, Jan 2: The Election Commission (EC) has completed registration of voters with photographs and biometrics in 73 districts and has planned to complete the ongoing phase of registering the voters within a month.

The EC completed registration of altogether 9,958,132 voters last Thursday, said EC Spokesperson Sharada Prasad Trital.

While the registration is under way in

Kapilvastu district, the EC is making preparations to begin voter registration in Banke from this week. The constitutional body has already prepared the electoral rolls in 46 of the 77 VDCs in Kapilvastu district.



"We are likely to begin voter registration in Banke, as the last district, from January 5," Trital said.

According to him, Kathmandu has the largest number of 5, 75000 voters against 2271 -- the lowest -- in Manang. Similarly, Morang has second largest number of 4, 21000 voters while Mustang has the second lowest with 5,526 voters.

The EC expects to register 10.5 million voters through the ongoing door-to-door voter registration program. According to EC, 17.6 million voters were registered for the Constituent Assembly (CA) election held in 2008.

"Before EC approves the final list of voters, the collected details of the voters will be made public in the VDCs and municipalities for rectification of errors and duplications," he said.

When asked about the number of female and male voters, the EC spokesman said that collected data is yet to be processed.

"However, the number of female voters is likely to dominate that of males," added Trital.

The EC has been accommodating personal details of the voters, including addresses, gender and age group so that it may be used while issuing national identity cards.

The voter registration will cost the government two billion rupees.

### [Cabbie clean out catches crims](#)



People line up for a cab in Fremantle on a Friday night. Picture: Marie Nirme *Source: PerthNow*

### **SIX cabbies with serious convictions, including indecent dealing with children, stalking and drug crimes, managed to keep their WA taxi licences, The Sunday Times can reveal.**

The bungle was unearthed in an audit of the state's 6630 taxi drivers.

Three of the six drivers were in jail, but their licences were not revoked.

One driver had amassed more than 70 driving offences and another two faced court on serious charges.

The Department of Transport cancelled six drivers' licences and suspended two others after reading the three-month audit's findings. It is also overhauling how it catches rogue cabbies to stop any more slipping through the cracks.

The audit was assisted by WA Police using "biometric" or facial-recognition technology to cross-check cab licences with standard drivers' licences and court documents.

Transport Minister Troy Buswell this week admitted the "system failed".

He confirmed the six drivers had retained their licences.

"Three are incarcerated for their crimes, but there is a possibility they were driving taxis before their sentencing," he said.

Mr Buswell said it was "unacceptable", but "I am satisfied these six drivers have now been dealt with appropriately and that the department is implementing a more robust system of checks and balances to ensure it doesn't happen again.

"There has been a process whereby the department receives notification (from police) of taxi drivers who have been convicted of criminal and traffic offences. The information is then assessed and action is then taken as required.

"However, it is clear the system failed somewhere along the line in this case and that is why it has now been improved at all stages.

"The Department of Transport and police will now ensure the flow of information is automatic and the department has done significant work on its internal processes in regard to their procedures and practices relating to the issuing of taxi drivers' licences and the assessment of criminal convictions."

### [Facial Recognition May Enhance New Apple Devices](#)

Since Apple didn't invent facial recognition technology, its unique take on it regards managing power supply and reducing the impact of lighting and biometric distortions. The facial recognition patent was filed in June 2009 and credited to Robert Mikio Free, AppleInsider reported.

That speculation was touched off by a patent application by Apple published this week by the U.S. Patent and Trademark Office which was quickly discovered by the folks at AppleInsider. The technology could use an iPhone's or iPad's forward-facing camera to recognize a user's face to customize applications. That could make it easier for family members and others, perhaps in small businesses, to share devices.



The patent concerns "Low Threshold Face Recognition," which AppleInsider described as "a low-computation solution for quickly and accurately recognizing a user."

But it is only slowly phasing into consumer technology. The newly launched Galaxy Nexus, Google's flagship 📱 device made by Samsung, allows the user to unlock the device with a smile rather than a password. Samsung even produced a commercial marketing that feature, with a little boy trying to imitate his father's grin to make a call. Many digital cameras, and current iPhones, can identify faces for the purpose of focusing the shot.

Watch that Video Clip [here](#): or just click on the picture below.



The technology can also be controversial. When Facebook in June started using it to automatically tag people in users' photos, the German government threatened to sue, claiming it violates people's privacy. Facebook

countered that it's easy to opt out of the automatic recognition.

### [Foreign Egypt Ministry Says Tourism Not to Be Affected By Enforcement of Biometric Visas](#)

The tourism movement in Egypt will not be affected by the enforcement of the Schengen biometric visa on North African nationals including Egyptians, said spokesman for the Foreign Ministry Amr Roshdi.



Foreign Minister Mohamed Amr had decided to apply the principle of reciprocity on Schengen countries' nationals, he said.

Roshdi said Amr's decision in this respect was very clear and takes into account mechanisms for boosting the flow of tourists into the country, given the fact that tourism is a main source of national income.

This decision will go into force on January 15 and be implemented on Schengen countries' officials and holders of official passports, diplomatic or special missions as well as holders of ordinary passports, according to the spokesman.

## Upcoming Events:

### Januari 23-25 2012 Washington

#### [5th Annual Biometrics for National Security and Defense Enhancing Identity Technology, Collection and Protection](#)

**5th Annual Biometrics for National Security and Defense**  
January 23 - 25, 2012, Greater Washington DC Area

As technology continues to advance and national security remains at the forefront of discussion, it comes as no surprise that biometrics for national security and defense is a hot topic.

The ability for scientists and engineers to determine ways to accurately identify people based upon physical and behavioral characteristics has been achieved; however, improvements in equipment, interoperability and database accuracy are essential.



Biometrics is key to our nation's intelligence and security efforts.

Establishing an individual's identity with certainty provides our military personnel an edge and aids other US government organizations.

Federal, state and local governments are looking to discover new biometric technologies that will enhance their operations. "The Identity and Access Management (IAM) market will grow from nearly \$2.6 billion in 2006 to \$12.3 billion by 2014. These numbers include revenues from both products and implementations services." – Andras Cser and Jonathan Penn, Forrester, February 2010.

Central themes for the 5th Annual Biometrics for National Security and Defense include:

- Voice and Face Identification
- Biometrics Strategy, Policy and Conformity

- "The Biometrics Challenge 2011"
- Intelligence, Surveillance and Reconnaissance Science and Technology Challenges
- Interoperability via Web Services
- Federal Identity Management Programs
- Biometric Achievements at DHS Science and Technology

Don't miss this great opportunity to network and forge new partnerships within this innovative community. [Register](#) yourself and your team today!

### Januari 24-26 2012 Bethlehem PA

#### [The Inaugural US Biometric & Forensic Audio Seminar & Workshop](#)



SpeechPro, a world leader in Audio Forensics and Voice Biometric technologies is pleased to be presenting a 3 day seminar and workshop in Bethlehem Pennsylvania, USA from January 24th to 26th 2012 focused on Voice Biometrics and Forensic Audio processing in law enforcement.

[The seminar](#) will provide a general overview on all aspects of forensic audio processing. Participants will learn about the latest developments in audio forensics and management of audio evidence. Presentations will discuss recent cases, legal challenges and new investigative capabilities that are enabled by new technologies such as automatic identification.

Attendees will also be introduced to SpeechPro's line of software applications including the newly released SIS II sound analysis and visualization software, Sound Cleaner, EdiTracker, Caesar Transcription and VoiceGrid Lab.

The workshop will take place on days 2 & 3 and will consist of one and a half days of hands-on introductory training with SpeechPro Sound Cleaner application. This course is designed to allow new users and potential new users to competently operate the Sound Cleaner application and also gain a working knowledge of basic audio processing.

Follow the link below to download the preliminary [agenda and registration form](#).

**March 29 – April 1 2012 New Delhi, India**

[ICB 2012 The 5<sup>th</sup> International Conference on Biometrics](#)



[Call for papers:](#)

International Conference on Biometrics was established in 2006 as a biennial conference by merging AVBPA (Audio- and Video-based Person Authentication), ICBA (International Conference on Biometric Authentication) and other biometric workshops, and has established itself as a premier international conference in biometrics. The first edition of ICB was held in Hong Kong, China (2006), the second in Seoul, Korea (2007), and the third in Alghero, Italy (2009). The fourth edition was held in conjunction with the BTAS conference (Biometrics: Theory, Applications, Systems) in Washington, DC, USA (October 2011) and

called the International Joint Conference on Biometrics (IJCB). ICB is an official conference of the IAPR Technical Committee on Biometrics (TC4).

The 5th International Conference on Biometrics (ICB 2012) will have a broad scope and invites papers that advance biometric technologies, sensor design, feature extraction and matching algorithms, analysis of security and privacy, and evaluation of social impact of biometrics technology. Topics will include biometric systems based on fingerprint, iris, face, voice, gait and other modalities as well as biometric fusion and emerging biometrics based on novel sensing technologies.

All submissions must clearly articulate the novelty of the work and must report results on publicly available datasets whenever possible. Submissions will be carefully reviewed by a double-blind process.

**April 3 – 4 New York**

[VBC NEW YORK, 2012: Benchmarks, Use Cases and Real World Experience:](#)



We're very pleased to showcase the ever-expanding set of present solutions and future opportunities for voice biometrics to support speaker identification and verification around the world. With enrolled voiceprints already exceeding 6 million, we're witnessing an accelerated deployment of voice biometric-based solutions to support trusted commerce:

- At diversified telecommunications companies – where it promotes rapid recognition of callers to support customer care and problem resolution
- Among retail banks and financial services companies – to promote trust between trading partners to support peer-to-peer payment

- Pension funds and government agencies – as proof of life for transfer payments.
- Hosted service providers – as a path for growth in support of cloud-based e-commerce.
- Law enforcement agencies – for speech isolation and speaker detection that holds up in court

**Aug. 26-31- 2012 Kobe, Japan**

[International Biometric Conference](#)



We are pleased to welcome you for the XXVIth IBC in Kobe, Japan. As always, it will bring together participants from all over the world working in academic institutions, government agencies, and industry to exchange ideas on the latest advances in biometry, biostatistics and bioinformatics. It will also be an occasion to meet old and new friends, and the chance to visit historical cities such as Kobe, Kyoto and Nara.

[Call for papers](#)