

AI:10

GET INSIGHTS ON AI UNDER 10 MINUTES

Issue #7 | February 2021

WHAT'S HOT

FACEBOOK'S ENFORCEMENT REPORT REVEALS AI IS DELETING 97 PERCENT OF 'HATE SPEECH' BEFORE ANYONE REPORTS IT

SCIENTISTS PROVE AI CAN FOOL DEEPPAKE DETECTORS IN 'REAL-WORLD THREAT' FOR FIRST TIME

SPECIAL AI FEATURES

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SECTOR FOCUS

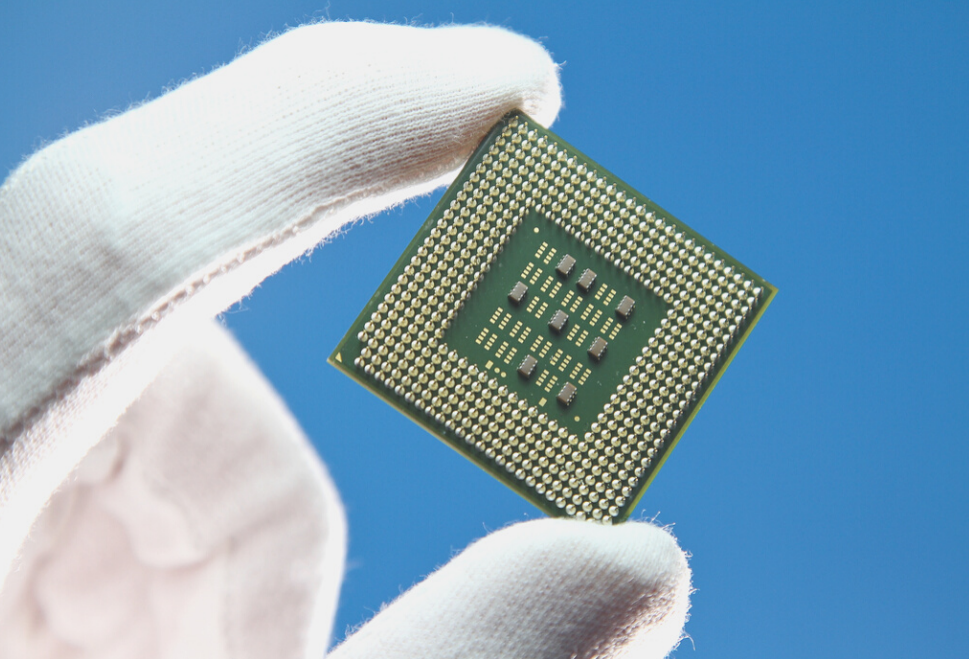
AI EMERGES AS CRUCIAL TOOL FOR GROUPS SEEKING JUSTICE FOR SYRIA WAR CRIMES

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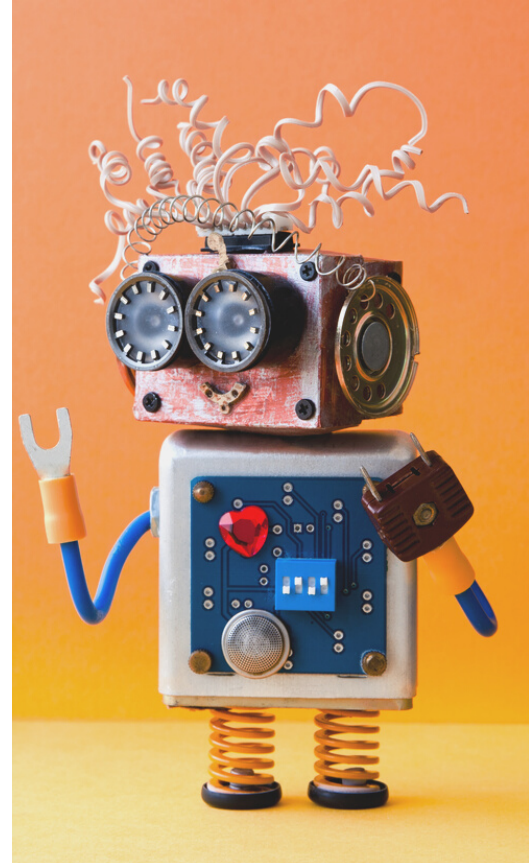


Systems are in place to detect when footage has been manipulated by AI, but scientists have revealed that those systems can easily be deceived in alarming technological news. For the very first time, scientists have proven that artificial intelligence can deceive systems designed to detect deepfakes. A portmanteau of "deep learning" and "fake", deepfakes are videos designed to fool the viewer by merging real footage with artificially generated images.

While some might be funny, such as manipulating a politician's mouth so it looks as though they're saying something absurd, the technology is advancing rapidly and experts are concerned it will make damaging disinformation even more convincing. Systems have been designed to detect when footage is a deepfake, but those systems can be fooled, researchers from the University of California San Diego revealed at a conference.

Typical deepfake detectors focus on faces in videos they're analysing, tracking it and passing the data on to a neural network that determines whether the face is real or not. Detectors will often focus on unnatural blinking as deepfakes don't tend to replicate the eye movement convincingly.

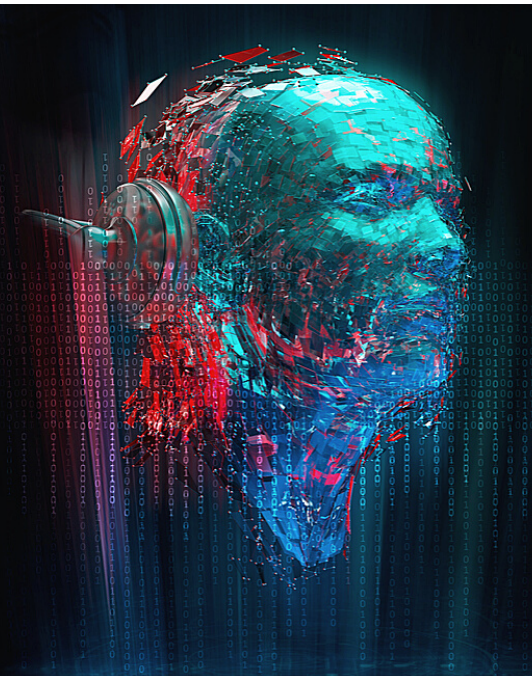
Speaking at the Workshop on Applications of Computer vision conference, held online in January, scientists demonstrated how detectors can be tricked by inserting inputs called "adversarial examples" into every frame of a deepfake video. These examples are slightly manipulated inputs that cause AI systems, such as machine learning models, to make a mistake — and they work even after videos are compressed. The most advanced deepfake detectors rely on these machine learning models to function, so the news is troubling, to say the least. ■



Scientists prove AI can fool deepfake detectors in 'real-world threat' for first time

SOURCE: DAILYSTAR.CO.UK

"Our work shows that attacks on deepfake detectors could be a real-world threat," computer engineering PhD student Shehzeen Hussain told the conference.



FACEBOOK'S ENFORCEMENT REPORT REVEALS AI IS DELETING 97 PERCENT OF 'HATE SPEECH' BEFORE ANYONE REPORTS IT

Facebook praised itself for nuking almost all “hate speech” that violated its rules. But not only was most content deleted before anyone could flag it, users weren’t even allowed to appeal most deletions.

Revealing its Community Standards Enforcement Report for the fourth quarter of 2020 on Thursday, Facebook bragged that its expanded use of artificial intelligence had helped it delete almost twice as much “bullying and harassment” content as the previous quarter, just one of several categories in which removals skyrocketed, while its Instagram subsidiary dramatically expanded its ability to catch suicide and self-injury related content.

Facebook axed 6.3 million bullying items, nearly doubling last quarter’s 3.5 million and assisted in large part by its AI technology. Expanded translation ability helped it remove 26.9 million pieces of “hate speech” content, up from 22.1 million in the third quarter. And Instagram nabbed 6.6 million pieces of hate speech while more than doubling the amount of suicide and self-harm content it removed – from 1.3 million to 3.4 million this quarter.

Despite the numbers growing across the board, there’s no evidence the increased deletions necessarily translated to a better user experience. The vast majority of content removal was performed automatically, by the platform’s systems, before a single user could view it - let alone report it as violating some rule.

Nevertheless, Facebook Chief Tech Officer Mike Schroepfer could scarcely contain his excitement over the rate of “improvement” of its AI hate speech detection tools, noting that in the last quarter of 2017, just 24 percent of such content had been removed without human intervention and likening Facebook’s anti-bullying tools to life-saving advances in science and technology. ■

SOURCE: RT.COM

UN AGENCY PROMOTES USE OF AI IN NATURAL DISASTER MANAGEMENT

The United Nations (UN) agency said in a press release that in cooperation with the World Meteorological Organization (WMO) and the United Nations Environment Program (UNEP), it has launched the ITU Focus Group on "AI for natural disaster management." Natural disasters took a heavy toll between 2005 and 2015, impacting 1.5 billion people, killing 700,000 and leaving 23 million homeless, according to the Sendai Framework for Disaster Risk Reduction 2015-2030, which was developed by the UN Office for Disaster Risk Reduction (UNDRR).

AI could prove useful "to save countless numbers of lives," said ITU Secretary-General Houlin Zhao. "This new Focus Group is the latest ITU initiative to ensure that AI fulfills its extraordinary potential to accelerate the innovation required to address the greatest challenges facing humanity," he said. ■

SOURCE: XINHUANET

DETECTING OCEAN PLASTICS FROM THE AIR THROUGH AN AI SOFTWARE

Researchers at the University of Barcelona have developed an algorithm that can detect and quantify marine litter through aerial imagery, something they hope can work with drones to autonomously scan the seas and assess the damage. Taking stock of our plastic pollution problem is a tall order, with so much of it entering the ocean each day and being broken down into smaller fragments that are difficult to trace. The University of Barcelona team has taken aim at those pieces floating on the surface, hoping to improve on current methods of tracking their distribution, which involve surveying the damage from planes and boats.

An interesting example of this is the work carried out by The Ocean Cleanup Project, which has ventured into the Great Pacific Garbage Patch with research vessels and flown over the top of it with aircraft fitted out with sensors and imaging systems. Most recently, it demonstrated a way of doing this using infrared to distinguish pieces of plastic swirling about in the ocean from other ocean debris. The University of Barcelona team has instead turned to deep learning techniques to analyze more than 3,800 aerial images of the Mediterranean off the coast of Catalonia. By training the algorithm on these photographs and using neural networks to improve its accuracy over time, the team wound up with an artificial intelligence tool that could reliably detect and quantify plastic floating on the surface. ■

SOURCE: NEWATLAS



HEADLINE NEWS IN A FLASH

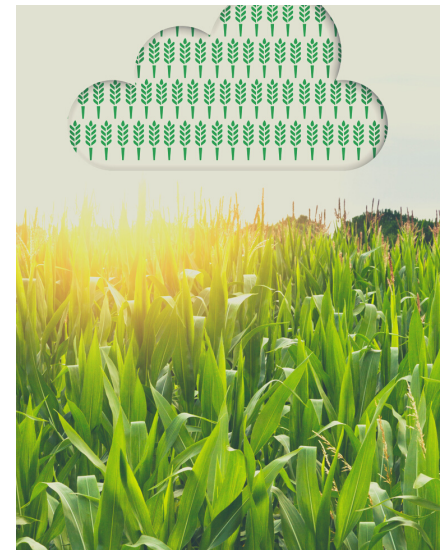
MOTOROLA SOLUTIONS COMBINES AI CAPABILITIES WITH A NETWORK VIDEO RECORDER TO PRESENT AN ALL-IN-ONE SOLUTION

Motorola Solutions, today announced the newest addition to its video security and analytics portfolio, the Artificial Intelligence Network Video Recorder (AI NVR). The AI NVR combines the traditional Avigilon NVR with the capabilities of the Avigilon AI Appliance to provide enterprises with a solution that fulfills their analytic, storage and cyber security needs.

“The AI NVR is a game changer when it comes to helping enterprises achieve their security goals. We are providing a cost-effective option that enables our customers to become more efficient in their security efforts, resulting in a safer environment” said John Kedzierski, senior vice president, Video Security & Analytics at Motorola Solutions. “By combining analytics and the cloud in an appliance that is easy to deploy and manage, security operators are able to make better informed decisions while streamlining their system management operations”.

Rather than replacing an entire video security set up, users can now connect their existing camera system with the AI NVR to gain access to the Avigilon advanced analytics. The AI NVR is a comprehensive solution, enabling users to adopt the power of Avigilon’s neural network-based analytics while running on a hardened operating system that can be managed remotely. ■

SOURCE: M2 PRESSWIRE



NEW AI AGRITECH PLATFORM TO BENEFIT SCIENTISTS

SOURCE: SUNLIVE.CO.NZ

“A new scientific partnership will develop an AI platform to meet demand from Bay of Plenty scientists for faster processing of complex research data. The initiative, a marriage between the needs of PlantTech Research Institute in Tauranga and the expertise of New Zealand eScience Infrastructure, is accelerating innovative research, starting in the agritech sector.” The platform will remove computer processing bottlenecks that limit the ability for data scientists to train artificial intelligence models that learn from high volumes of complex and tightly coupled data. Furthermore, the turnaround times for current AI research will also be dramatically reduced.

Horticulture and produce are among the first New Zealand industries to benefit from this faster AI computing infrastructure, with PlantTech scientists using it to explore new approaches to data-driven horticulture in key sectors, including kiwifruit. NeSI director Nick Jones says the partnership with PlantTech provides NeSI with an opportunity to extend its national platform to be fit-for-purpose for data-intensive agritech workloads. ■



Microsoft Teams AI could soon determine which attendees are most engaged

Microsoft has created a new AI solution that will inform Teams users when meeting participants are engaged, confused, or surprised. The AI solution, dubbed AffectiveSpotlight, will use a neural network to analyze facial expressions and determine how individuals are responding to the speaker.

“The ability to monitor audience reactions is critical when delivering presentations,” the Microsoft research team explained. “However, current videoconferencing platforms offer limited solutions to support this. This work leverages recent advances in affect sensing to capture and facilitate communication of relevant audience signals.”

AffectiveSpotlight works by classifying expressions into common human emotions, including sadness, happiness, or surprise, and even boasts an eyebrow detection systems to spot confusion. All expressions are rated between 0 and 1, with positive responses receiving the highest score. At 15-second intervals during a call, the Teams participant with the highest score is shown to the presenter. ■

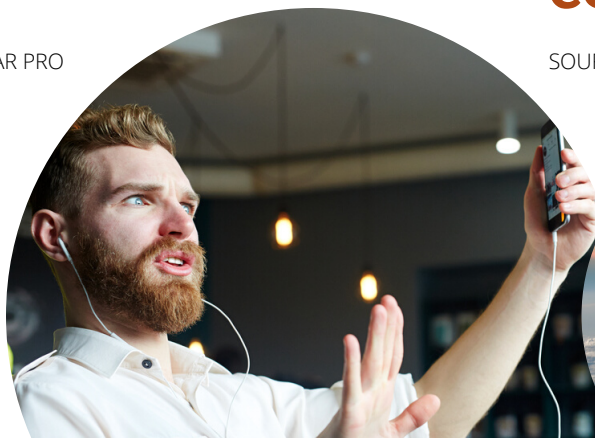
SOURCE: TECHRADAR PRO

On Thursday, 11 February 2021, NASA and Hewlett Packard Enterprise (HPE) announced that they will test the limits of the term “edge computing” with a new computer designed to deliver artificial intelligence in space. Later this month, the new Spaceborne Computer-2 will become the first high-performance commercial computer to operate in space on the International Space Station. HPE says Spaceborne Computer-2 will allow astronauts to process data that used to take months in mere minutes. Once launched and assembled in space, NASA will use it for at least the next two years, giving astronauts the power to use AI and other advanced computing capabilities that were once out of reach in space.

Bringing this type of computing capability to space “is just the first step in NASA’s goals for supporting human space travel to the Moon, Mars and beyond where reliable communications is a mission critical need,” HPE said in its release. “The most important benefit to delivering reliable in-space computing with Spaceborne Computer-2 is making real-time insights a reality. Space explorers can now transform how they conduct research based on readily available data and improve decision-making,” said Dr. Mark Fernandez, HPE’s principal investigator for Spaceborne Computer-2. ■

NASA delivers AI to space with first commercial edge computing system

SOURCE: FEDSCOOP



AI EMERGES AS CRUCIAL TOOL FOR GROUPS SEEKING JUSTICE FOR SYRIA WAR CRIMES; RIGHTS GROUPS USE MACHINE LEARNING TO SORT THROUGH A MAMMOTH TROVE OF VIDEO, PHOTO AND OTHER EVIDENCE

By most accounts, the Syrian conflict has been the most documented war in history. But that mammoth trove of evidence—millions of videos, photos, social-media posts and satellite imagery—doesn't easily translate into accountability for crimes committed during the war. So as the United Nations, European authorities and human-rights groups build war-crimes cases, they have turned to a novel tool: artificial intelligence.



With the regime of President Bashar al-Assad emerging largely victorious from nearly a decade of conflict, efforts to bring about some measure of accountability are gaining speed, largely in European courts. Since the beginning of Syria's conflict, activists on the ground risked their lives to document human-rights violations, from torture and attacks on protesters to indiscriminate rocket strikes and barrel bombs.

Now, AI and machine learning could play an integral role in bringing war criminals to justice for Syria by helping to sort through the huge trove of evidence and serve as a model for investigations into other modern-day conflicts. "You have a use of technology both to disseminate the information, capture it, and now to search it that is suddenly very different and changes the way you work," said Catherine Marchi-Uhel, who heads the United Nations body tasked with collecting Syrian evidence and building cases.

The technology is aimed at helping process, organize and analyze the data and reduce the time human investigators spend sifting through terabytes of traumatic videos and images. AI algorithms help group videos of the same incident and weed out duplicates or unrelated images. Algorithms are also working on object recognition, finding all data relevant to a specific weapon to help build a case.

In 2017, Hadi al-Khateeb, founder of Syrian Archives, an independent human-rights group that has been archiving evidence since the start of the conflict, wanted to assemble a searchable database on all cluster munition attacks. Mr. Khateeb hopes the database will help build a case that the Syrian regime and its main military backer, Russia, used internationally banned weapons during the conflict. But it was impossible for Mr. Khateeb's small team to sort through more than 1.5 million videos by hand to find all those related to cluster bombs.



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Mr. Harvey expected a coding task on par with creating algorithms for Google image searches. But soon he realized he was missing a crucial component to train the AI: enough existing images and videos of the cluster bombs. "In looking for these specific items in human-rights investigations you don't have as many of these as say cats on the internet," Mr. Harvey said. So Mr. Harvey spent more than a year creating synthetic data including 2-D images meant to replicate the environments in Syria and using 3-D models to recreate post-blast videos in various locations around Germany.

After training the program on this data, researchers test the accuracy of the algorithm by running it through a known set of images. They then tweak and retrain the data set to improve it. In Mr. Harvey's Berlin apartment, a wood drafting table is covered in gray, 3D-printed replicas of cluster bombs—primarily the AO-2.5RT—that were the most common munitions used in the Syrian war. By mid-2021, Messrs. Khateeb and Harvey hope to have the database completed and ready to start building a case.

SOURCE: THE WALL STREET JOURNAL ONLINE

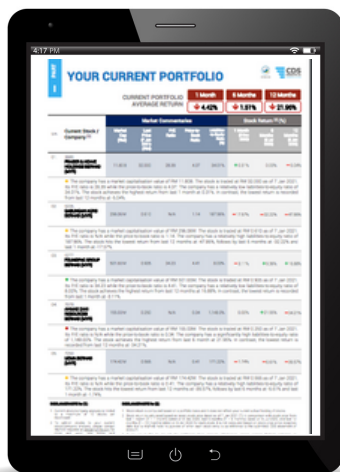
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MyFinB provides an AI-based system to convert the e-statements that contain your stock holdings into a set of personalised analysis. Called CDS Insights, the built-in Natural Language engine helps CDS account holders with insights on how they have performed, the underlying financial health of the companies, the strategic effectiveness of their business models, and the key areas that the Board / Management must do to address any gaps or risks.



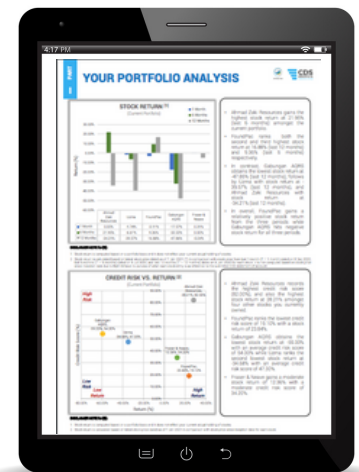
MARKET COMMENTARY ON THE STOCKS THAT YOU HOLD



ANALYSIS OF YOUR INDIVIDUAL STOCK & PORTFOLIO PERFORMANCE



RISK-RETURN ASSESSMENT OF YOUR STOCK PORTFOLIO



COMPARABLE RISK-RETURN ANALYSIS OF INDIVIDUAL STOCKS RELATIVE TO ONE ANOTHER

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THREE WAYS YOU CAN BUILD & OWN AI WITHOUT CODING

➔ You have an idea



Yes - this idea must originate from a pressing need, pain point or an opportunity that is associated with your current operations and/or industry dynamics.

There must be a ready demand for that idea to be transformed into a system - otherwise it has to be incubated or "cook" to be ready for the market.

BUILD INNOVATION WITH US

MyFinB is an award-winning, high growth AI start-up with core operations in KL/SG and serving more than 30 markets globally.

We specialise in Artificial Intelligence and Natural Language Generation & Understanding (NLGU). Our AI-powered solutions translates structured data (financial statements, bank statements, incorporation info) and unstructured data (publications, social media, journals and video images) into decisioning reports.

MyFinB uses its proprietary NLGU and Cognitive Analytics capabilities to serve 10 core segments: Financial institutions, Enterprises / SMEs, Accounting and Auditing Firms / Consultants, Government Agencies, Credit bureaus, Stock Exchanges, Insurers, Trade Associations and Business chambers, Universities and Investment Promotion Agencies.

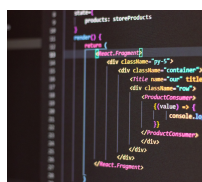
We manage a "digital factory" model where we help organisations build in-house capabilities via the Digital AI Labs (DIAL) programme. DIAL is a scheme of arrangement that helps organisations build and own A.I. expert systems – to solve a specific issue with a commercial goal in mind.

MyFinB's DIAL Programme offers a unique AI-as-a-Service (AlaaS) platform to overcome the barriers of adopting AI Systems. DIAL targets people without the knowledge of coding and programming to build their own expert systems for their organisations.

“NOW EVERYONE CAN BUILD AND OWN AI WITHOUT CODING.”

TO FIND OUT MORE, PLEASE EMAIL: CEAI@MYFINB.COM

➔ From idea to system prototype and business plan



We design algorithms and build the business case around the system with our vast expertise in any discipline.

8 core deliverables will be rendered:

1. Mock-up Reports
2. Technological Blueprint
3. Roadmap
4. Prototype
5. Case Studies
6. 1-min Demo Video
7. Press Release
8. Pitch Deck

➔ We both



jointly own the IP in accordance to a pre-agreed ratio where MyFinB funds the full capex while you cover the costs of the prototype

We commercialise and launch them to the market based on the pre-agreed specifications and after the full system development is completed by MyFinB. Roles and responsibilities would have been detailed out, and a long-term partnership is forged.



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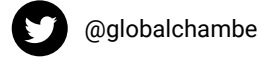
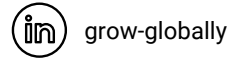
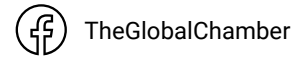
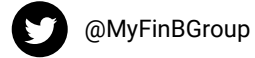
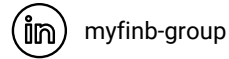
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CONTACT US



MALAYSIA

MyFinB (M) Sdn. Bhd.

Level 13A, Menara
Tokio Marine 189 Jalan
Tun Razak, Hampshire
Park, 50450 Kuala
Lumpur, Malaysia.

Tel: +60 327 173 418



SINGAPORE

**MyFinB Holdings
Pte. Ltd.**

One Marina
Boulevard, Level 20,
Singapore 018989

Tel: +65 6932 2658



UNITED STATES

**Global Chamber,
LLC.**

4400 N Scottsdale
Road, Suite 9-852,
Scottsdale, AZ 85251
USA

Tel: +1 (855) 476-9845