**APRIL 2021 | ISSUE #16** 

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#### **GET INSIGHTS ON AI UNDER 10 MINUTES**

SECTOR FOCUS

INTERVIEW WITH A VISIONARY & A SPECIALIST: LEADING THE FUTURE IN DIABETICS CARE

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THE PANDEMIC-DRIVEN RISE OF DATA CENTRES

#### **HEADLINE NEWS IN A FLASH**

INVESTMENT POURS INTO DUSTRY FOR VOICE AND FACE BIOMETRICS, INTERNATIONAL EXPANSION

THE FOREST ECOSYSTEM IS THRIVING, THANKS TO AI INTERVENTION

> SPECIAL AI FEATURES AI FOR +VE CHANGE: R&D AND COMMERCIALISATION

# THE FUTURE OF ENGI**REERI**NG AND ARCHITECTURE - WHERE AI AND DESIGN THINKING CONVERGE

At SUTD, artificial intelligence is more than just a new tool or technology - it also powers design to develop human-centric solutions for the real world

Imagine this: You are a train driver. During one of your trips, you spot a dark figure on the tracks ahead. You immediately pull the brakes to prevent a potential accident. While this decision may seem simple to humans, it is not as intuitive for smart machines in autonomous systems.

For a smart system to make the appropriate response, it needs to be fed a tremendous amount of quality data in order for it to achieve a desired level of understanding and intelligence, and this is costly and time-consuming. But what about unforeseen or unpredictable events? With no available data for yet-to-happen occurrences, how can such systems learn what to do? That is where design thinking comes in. A good understanding of the user's pain points led Singapore University of Technology and Design (SUTD) graduates Aravind Kandiah and Charles Wong to create a synthetic data engine called Bifrost.

The platform leverages graphics technology commonly used in films and games to create virtual environments to train AI systems to react to a vast range of situations using artificial data, which is less costly than actual data.

"Our engine automatically generates a realistic-looking virtual world, where we can simulate rare and dangerous occurrences like a building collapsing or a car accident. These worlds let our clients capture rich data at a fraction of the time and cost," says Mr Wong. Mr Aravind adds: "In short, it is a world engine built by Al to train other Al agents."

#### AI as a value driver in the future economy

To fully harness the potential of AI, technology is just one part of the equation. A good understanding of the design thinking process is just as important to develop human-centric solutions.

Bifrost's Mr Aravind says that the two most valuable things SUTD has imparted to him are design thinking and the concept of learning to learn. At SUTD, students are trained in the design thinking process and to adopt an empathetic approach to creating useful innovations and real-life solutions that people need.

At the recent SUTD Open House, SUTD President Professor Chong Tow Chong said: "Artificial intelligence will fundamentally reshape the way we live, work and interact. Design in this new century should take a new approach that is AI- and data-driven to co-create solutions to improve lives, grow economies and sustain the world."

Another hallmark of the SUTD education is a unique interdisciplinary experience by integrating design thinking and AI into its curriculum and pedagogy.

The twin tools of design thinking and AI are used as means towards finding innovative, human-centric solutions to real-world problems. 02

# THE PANDEMIC-DRIVEN RISE OF DATA CENTRES

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Covid-19 has set off a data centre boom in Asean, but can the region sustain the pace of growth in years to come? MANY are now familiar with the massive acceleration of digitalisation that defined 2020. As Covid-19 spread across the globe, businesses had to quickly move their activities online while people sought new ways to work, learn and relax as countries moved into lockdown and governments implemented social-distancing measures. This shift to a digital-first behaviour resulted in the growth of applications and connectivity tools that enabled people to continue working, schooling, shopping and staying entertained from home.

In Asia-Pacific, the e-commerce, gaming and video streaming sectors, which were already displaying strong performance before the pandemic, saw continued growth with more people turning to digital services as a result of social distancing measures. At the same time, the pandemic also forced governments and enterprises to transform and adapt their delivery of critical goods and services, bringing forward their adoption of Internet of things (IoT), artificial intelligence (AI) and other emerging technologies that rely on the collection and analysis of data, fuelling a surge in demand for high-performance computing infrastructure.

#### NEXT WAVE OF DATA CENTRE DEMAND

As key enablers of this transformation, the data centre sector has seen a tremendous surge in demand for capacity. South-east Asia is already the fastest-growing data centre region in the world with a compounded annual growth rate (CAGR) of 13 per cent, and the changes catalysed by Covid-19 are only likely to speed things up further. Seven in 10 data centre professionals surveyed by Turner & Townsend now regard the data centre sector as recession-proof in 2021, up from 50 per cent in the previous year. Even more (85 per cent) agreed that data centre construction demand in 2021 will increase.

Like we saw last year, data centres will once again play an increasingly important but largely behind-the-scenes role in helping governments and healthcare providers as countries move into the next phase of pandemic management. The success of national vaccination campaigns and the eventual return to schools and the workplace will require vast amounts of data to be accurately and securely collected, stored and then analysed in real-time.

Supported by data centres, technologies such as AI, machine learning, IoT and data analytics will come into play as governments continue to predict coronavirus spread, manage testing and distribute and track vaccines. With this demand showing no signs of tapering off, it will be increasingly important for the region to pay close attention to the growth of data centres. Critical to the realisation of many digital economy ambitions will be the ability to juggle sustainability and environmental priorities effectively while building up a ready pipeline of engineering talent to support this infrastructure growth.

# BALANCING THE SUSTAINABILITY IMPERATIVE AMID DIGITALISATION

Data centres are notorious for their extremely high energy demands. In order to chart a more sustainable path to support the growing demand, a moratorium on new data centres has been in place since 2019, with the government working alongside private sector players to invest in research on new technologies that help reduce energy consumption, emissions and space requirements. Similar moves have been observed in China and the Netherlands as cities and countries find ways to avoid "data centre sprawl" and soaring energy costs.

SOURCE: BUSINESS TIMES SINGAPORE

## INVESTMENT POURS INTO INDUSTRY FOR VOICE AND FACE BIOMETRICS, INTERNATIONAL EXPANSION

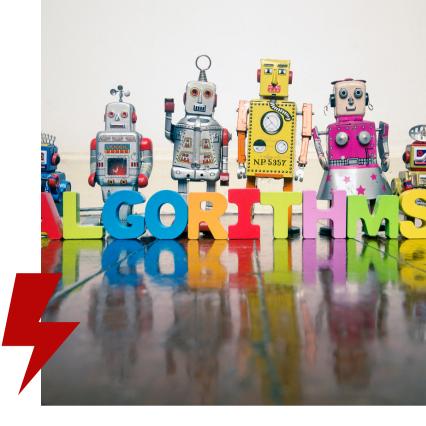
Big money is being invested in voice biometrics and facial authentication, with Microsoft making Nuance its second-largest ever acquisition (after LinkedIn), and Veriff announcing a successful Series B funding round. Little wonder, with voice biometrics expected to be a \$4 billion industry by 2026 and sustained growth expected in video analytics. Momentum is seen in other areas of the biometrics market with Fingerprint Cards and Zwipe each expanding their organizations internationally, and digital identity solutions in development for health status and treatment.

#### Top biometrics news of the week

- A pair of recently-published patent applications from Apple show work on enabling iPhones to act as storage devices for digital travel credentials, mobile driver's licenses and other digital ID documents, as well as on authenticating to one device through another. While published patent applications do not necessarily show up in future products, both using an iPhone to store an mDL and unlock an Apple Watch or similar device would be consistent with emerging trends and the company's business model.
- Voice biometrics is forecast to be a market worth nearly \$4 billion by 2026 in a new MarketsandMarkets report, largely on BFSI adoption to reduce authentication costs. Market research also shows reasons for optimism in access control, where biometric readers will take a major market share, biometric middleware, and advanced computer vision.



#### SOURCE: BIOMETRICUPDATE.COM



# THIS IS THE POINT WHEN PEOPLE START TRUSTING ALGORITHMS MORE THAN OTHER HUMANS

Algorithms can help us with everything. Now, new research reveals one of the tipping points that tend to make us trust a computer's judgment rather than a human's. The findings offer an interesting insight into how ready we've become to let algorithms make decisions for us – and how they have the potential to streamline our lives and make them easier, even though they take away some autonomy.

"It seems like there's a bias towards leaning more heavily on algorithms as a task gets harder and that effect is stronger than the bias towards relying on advice from other people," says management information systems PhD student Eric Bogert, from the University of Georgia.

The researchers are keen to emphasize that our perception of how accurate an algorithm will be is important – partly because it can mean we overlook underlying biases and discrimination in the results that we're presented with by artificial intelligence.

SOURCE: SCIENCEALERT.COM

#### AI:10 | HEADLINE NEWS IN A FLASH

# HEALTHCARE SUPPLY CHAIN MANAGEMENT MARKET WORTH USD 3.3 BILLION BY 2025 - AI AND ANALYTICS IN THE HEALTHCARE SUPPLY CHAIN



**Major Market Growth Drivers:** The key factors driving the growth of this market include the adoption of GS1 system of standard in the healthcare industry globally, the emergence of cloud-based solutions, reduction in operational costs by improving the efficacy and increase in overall profitability.

**Revenue Growth Analysis:** The global healthcare supply chain management market is projected to reach USD 3.3 billion by 2025 from USD 2.2 billion in 2020, at a CAGR of 7.9%

Increased adoption of software-based systems is expected to enhance the growth of the market: Healthcare supply chain management systems are available as two components, software, and hardware. A software system is highly acceptable compared to hardware systems due to the increasing number of online purchases, improving business intelligence, and growing preference for eco-friendly logistics. This is said to enhance the growth of the healthcare supply chain management market in the forecast period.

The cloud-based segment will grow at the highest rate during the forecast period.: Based on delivery mode, the healthcare supply chain management market is segmented into on-premise and cloud-based. Though the on-premise segment holds the largest share in the market, the cloud-based segment is expected to register the highest growth over the forecast period.

SOURCE: ICROWDNEWSWIRE

The global AI governance market to grow from USD 50 million in 2020 to USD 1,016 million by 2026, at a Compound Annual Growth Rate (CAGR) of 65.5% during the forecast period.

Various factors such as increase in government initiatives to leverage the AI technology, rise in need for building trust in AI systems and growth in demand for transparency in AI decisions, and growth in regulatory compliances around the technology are expected to drive the adoption of the AI governance solutions and services.

## GLOBAL AI GOVERNANCE MARKETS, 2021-2026: RISE IN NEED FOR BUILDING TRUST IN AI SYSTEMS AND GROWTH IN DEMAND FOR TRANSPARENCY IN AI DECISIONS

Managing and monitoring credit, market, liquidity, and operational risk across financial markets was hard enough with ongoing geopolitical tensions, international trade wars, and the occasional hurricanes and earthquakes. The current pandemic situation has forced chief risk officers and their teams to recalibrate old assumptions and models used to manage and monitor risk.

COVID-19's global impact has shown that interconnectedness plays an important role in international cooperation and how outdated technologies are obstacles to effective policymaking. As a result, many governments started rushing towards identifying, evaluating, and procuring reliable solutions powered by AI. The AI governance market has been segmented based on components into solutions and services. The solutions segment is divided into platforms and software tools. AI governance solutions provide an effective way for helping enterprises add AI governance capabilities into the existing architecture.

SOURCE: PR NEWSWIRES



# THE FOREST ECOSYSTEM IS THRIVING, THANKS TO AI INTERVENTION

From mapping the predicted sizes and species of trees to preventing poaching through predictive animal security, AI is helping the forest ecosystem thrive. Of the vast biodiversity that exists on this earth, every one out of five species faces the risk of eradication, and the number. scientists predict, will rise to 50% if the trend remains unchanged. Targeted conservation efforts backed bv meaningful technological intervention, policy support, and citizen engagement will be the key differentiators in creating a better future for all inhabitants of the planet, including the diverse ecosystems of plants and animals.

Disruptive technologies can play a transformative role in mitigating the perils of human defilement of nature and biodiversity. Illegal acts, motivated by the greed to exploit natural resources for personal gain, such as deforestation and poaching, are the root causes for the depletion of our resources. However, experts contemplate the possibility of positive outcomes from collaboration between AI pioneers and domain experts including climate scientists, materials scientists, biologists, and engineers.

Take forest surveys, for instance. Surveying forests and studying the resultant data helps conservationists understand the effects of climate change and protect habitats.

SOURCE: ELE TIMES BUREAU



## CLOUDCOMMERCES ARTIFICIAL INTELLIGENCE (AI) SOLUTION OUTPERFORMS CLIENT EXPECTATIONS IN RECENT TEST

CloudCommerce, Inc. (CLWD), a leading provider of digital advertising solutions, today announced that an accessories maker for the Jeep Wrangler experienced a 143% increase in conversions and its highest clickthrough rate ever by leveraging SWARM, the Companys Al-driven solution.

Andrew Van Noy, CloudCommerce CEO reported, SWARM tested 90 ad variations leveraging a mix of images, headline and body copy. The content was tested against the clients Jeep Owner audience in Facebook and optimized for conversions. The top five ad combinations were implemented and started running on March 2. The campaigns were structured around Jeep Wrangler landing pages.

We expected to outperform the clients previous creative efforts, Mr. Van Noy continued. However, we were absolutely blown away with these stunning results. A 143% increase in conversions means that the client is now in the very enviable position of dramatically increasing its top line revenue. Also, SWARM helps solve the user data cookie crisis.

SOURCE: MEHR NEWS AGENCY





# INTERVIEW WITH A VISIONARY

## Datuk Dr. Mohd Daud Bakar

Non-Executive Chairman (Malaysia / MyFinB.com Inc); Chairman, Amanie Group; Shariah Advisory Council, Bank Negara Malaysia & Securities Commission; Chairman, Majlis Agama Islam Wilayah Persekutuan (MAIWP); President, IIUM.



WHAT IS YOUR VISION ON HOW AI CAN, ONE DAY, BE USED FOR MANAGING THE RISING DIABETIC PROBLEM IN MALAYSIA?

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In my view, AI can be designed to process lots of data to monitor the patient's symptoms and biomarkers. Further, social media and online communities enhance patient engagement in diabetes care. Sharing of experiences, treatment effectiveness, psychological and mental state of minds and more.

I foresee in the near future, AI will introduce a paradigm shift in diabetes care in Malaysia – from conventional management strategies to building targeted data-driven precision care.

What's happening is that we have seen how many of these new Alpowered retinal imaging systems, predictive modeling programs, glucose sensors, insulin pumps, smartphone applications, and other decision-support aids are on the market today, with more on the way. I personally believe that AI applications have the potential to transform diabetes care and help millions of Persons with Diabetes (PWDs) to achieve better blood glucose control, reduce hypoglycemic episodes, and reduce diabetes comorbidities and complications. - Datuk Dr Mohd Daud Bakar

When designed well, AI applications can offer greater accuracy, efficiency, ease of use, and satisfaction for PWDs, their clinicians, family, and caregivers.

We need to ensure that technical advances can take place in Malaysia to optimize resource use in diabetes. Together, these intelligent technical reforms can help Malaysians achieve better health outcome. Join our Upcoming Webinar

HEALTHCARE on Wed, 21/4/2021; 2pm - 4:30pm (GMG+8)



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# EADING THE FUTURE IN DIABETICS CARE

Prof. Dr. Wan Mohd Azizi Bin Wan Sulaimani Vice Chancellor, PICOMS International University College



WHAT IS THE CONCEPT OF PERSONALISED CARE FOR DIABETIC PATIENTS? HOW DOES AI HELP TO PREVENT DIABETES COMPLICATION, IN PARTICULAR, RENAL FAILURE MANAGEMENT?

Artificial intelligence and diabetes: two topics that are very close to my heart. Taking this opportunity, I've decided to share with the audiences the many fascinating ways AI is helping the medical world gain ground in the fight against the chronic diseases.

As the world suffering with increasing diabetes trend and in conjunction World Diabetes Day on14th November, is estimated that 415 million people in the world suffer from diabetes. The predicted increase in this number is estimated at approximately 642 million by 2040.In 2019, an estimated 1.5 million deaths were directly caused by diabetes. Nevertheless, diabetes can be treated and its consequences can be avoided or delayed with diet, physical activity, medication and regular screening and treatment for complications.

#### Need for personalized advice

People living with diabetes need to make decisions about their treatment multiple times per day. But the doctors are not available 24/7 to dispel any doubts: a typical visit to a diabetologist is 15 minutes once every 3 months. Websites, books, patient support groups give only general suggestions. Modern medical devices can collect data, show patterns, and suggest next steps, but have an important limitation: The current systems are not personalized – they do not adjust to individual variations in insulin requirements. It may cause uncertainty and frustration.



## Join our Upcoming Webinar

FUTURE OF HEALTHCARE

on Wed, 21/4/2021; 2pm - 4:30pm (GMI+8)



https://myfinb.com/ future-of-healthcare

#### **Diabetes Self-management**

Diabetes self-management is crucial in treating the disease. Thanks to AI, patients are empowered to self-manage now their condition, using personal data to adapt their lifestyle and essentially act as an at-home physician.

Artificial intelligence enables patients to decide what to eat or drink as much as what level of physical activity is appropriate.

#### **Complications Monitoring**

Diabetes can lead to several common complications, including vascular pathologies (presenting as strokes, blood clots, or arterial disease) and peripheral neuropathies (presenting as weakness, numbness, and pain, often in the hands and feet).

Much like we saw in point one with Diabetic Nephropathy and Retinopathy diagnosis, machine learning can help spot and monitor other issues.

Artificial intelligence (AI) is a fast-growing field and its applications to diabetes, a global pandemic, can reform the approach to diagnosis and management of this chronic condition. Principles of machine learning have been used to build algorithms to support predictive models for the risk of developing diabetes or its consequent complications.

Patients are increasingly being empowered for self-management of diabetes, and both patients and health care professionals are benefitting from clinical decision support. Al allows a continuous and burden-free remote monitoring of the patient's symptoms and biomarkers. AI will introduce a paradigm shift in diabetes care from conventional management strategies to building targeted data-driven precision care.

At PICOMS, we have initiated the AI development for dialysis patients to cater the needs for comprehensive treatment regime during the dialysis, but more importantly post dialysis monitoring and self home monitoring.

It is our ambition to become a key global player in the area of "smart" Al solutions which learn from one's data to give personalized treatment suggestions especially managing Chronic Renal failure patients.

- Prof. Dr. Wan Mohd Azizi Bin Wan Sulaimani



AI:10 - GET INSIGHTS ON AI UNDER 10 MINUTES View previous issues a https://myfinb.com/category/ai10/



UNIVERSITY-INDUSTRY PARTNERSHIPS UIP

# AI FOR +VE Change

UIP is AI-as-a-Service an (AIaaS) platform for educators in Universities to convert their of expertise areas into prototypes, curriculum, industry-friendly collaboration models and develop new areas of research with AI-enabled engine. From prototyping stage, UIP helps to expand and develop the research and prototypes into fully-ready, AIbased expert for systems industry adoption and commercialisation.



For more information, please visit: www.myfinb.com/uip /e/ ceai@myfinb.com

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For partnering opportunities, please email: ceai@myfinb.com

process and access to justice.

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2021/22 | 1st Dec 2021

# AI WORLD SUMMIT

WHERE INNOVATORS & DISRUPTORS MEET TO CHALLENGE LIMITS

# Powered by MyFinB.comUP COMING<br/>WEBINAR<br/>SERIES<br/>LEADING<br/>TO THE AIG<br/>O THE AIG<br/>O RUD<br/>SUMMIT<br/>(AIWS)<br/>2021/22

WWW.MYFINB.COM/AIWS/2021-22/

'The AI World Summit: Where Innovators & Disruptors Meet to Challenge Limits' brings together the global AI community from a range of businesses, science and tech to go beyond the buzz and hype, discuss the most burning AI issues, share their developments, successes, challenges, and the resultant impact on their businesses.



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# Bolder WIDER BIGGER

1	Ethics & Artificial Intelligence
2	AI Perception & Reality
3	Conversion Of Research Into Al
4	Venture Capitalism vs Venture Building
5	Stock Investing & AI
6	AI & Cryptos
7	Board Effectiveness Reviews Using Al
8	Healthcare & Al
9	AI & Governments
10	Supply Chain & Al
11	SDG Measurement Using AI
12	Al's Role in Governance, Risk & Compliance (GRC)
13	Diversity & Board Performance
14	The Future of Education
15	The Future of Cooperatives

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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 your associated with 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.



### ラ 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. 1min Demo Video 7. Press Release 8. Pitch Deck

# 🔿 We both ....



jointly own the IP in accordance to a preagreed 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.

# 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 Our Al-powered Generation & Understanding (NLGU). 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 Al-as-a-Service (AlaaS) platform to overcome the barriers of adopting Al 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



MvFinB 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 Al-powered translates structured solutions data (financial statements, bank statements, incorporation info) and unstructured data (publications, social media, journals and video images) into decisioning reports.

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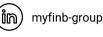


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