

AI AND ROBOTICS IN HOSPITAL AND HEALTHCARE CONFERENCE

Harnessing AI For Chronic Diseases,
Hospital Management And Patient Care

Pre-Conference Site Tours:
9 November 2020

Main Conference:
10 - 11 November 2020

Venue:
Sheraton Towers,
Singapore



5 POWERFUL REASONS TO ATTEND THE AI & ROBOTICS IN HOSPITALS AND HEALTHCARE CONFERENCE



Discover The Latest
Innovations In AI And Robotics
That Can Boost Hospitals'
Efficiency And Precision



Acquire New Skills And
Strategies To Effectively
Incorporate AI And Robotics
Into Healthcare Operations



Learn How To Elevate The
Patient Experience With AI-
Powered Medical Devices



See How To Maximize The ROI Of Your
Investments In Hospital And Healthcare
Digitization



Network And Build Valuable Partnerships With
Innovative Minds At The Forefront Of Medical
And Healthcare Technology

HIGHLY ACCLAIMED SPEAKERS & KEY TOPICS INCLUDE

9 - 11 NOVEMBER 2020 | SHERATON TOWERS, SINGAPORE



PROF ROBERT JT MORRIS
Chief Technology Strategist
Ministry of Health
Transformation (MOHT)



HARNESSING DATA SCIENCE AND AI TO IMPROVE MANAGEMENT OF CHRONIC DISEASES AND MENTAL HEALTH IN SINGAPORE



STEPHEN CHAN
Clinical Director Department of Knowledge and Innovation
Woodlands Integrated Health Campus



PIONEERING THE FUTURE OF PATIENT CARE WITH AI: A CASE STUDY FROM WOODLANDS HEALTH CAMPUS



DINESH KUMAR
Senior Consultant, Director of Spine
Changi General Hospital



FIRST IN SOUTH-EAST ASIA: HOW SURGEONS USE ROBOTS FOR PRECISE HEART SURGERY



JONATHAN SCOLNICK
Research Scientist
National University of Singapore



HARNESSING AI TO HALT CANCER: BREAKTHROUGH CASE STUDY FROM NUS



DR. TAN YAN YUAN
Clinical Artificial Intelligence Researcher
Babylon Health
Family Physician and Director
My Family Clinic



DO I NEED TO GO TO THE A&E? HOW CHATBOTS EMPOWER PATIENTS TO MAKE THE RIGHT DECISION



HONG CHOON OH
Assistant Director
Changi General Hospital



OPTIMIZING PATIENT FLOW, BED MANAGEMENT AND RESOURCES WITH AI AT CHANGI GENERAL HOSPITAL



DR GIDEON OOI
Radiologist and Chief Resident
SingHealth



ARTIFICIAL INTELLIGENCE & DEEP LEARNING IN MEDICAL DIAGNOSIS



TYLER HYUNGTAEK RIM
Clinical Scientist
Singapore National Eye Centre



USING AI TO DIAGNOSE DIABETIC EYE DISEASE



SUE-ANNE TOH
CEO & Co-Founder
NOVI Health
Honorary Senior Consultant, Regional Health System Office
National University Health System



HOW AI ASSISTANTS HELP DOCTORS EXPEDITE DIAGNOSIS AND TREATMENT RECOMMENDATIONS



CHARLENE LIEW
Deputy Chief Medical Informatics Officer
Director of Cardiothoracic Imaging
Changi General Hospital
Chapter of Diagnostic Radiologists Chairman
College of Radiologists



AI AUTOMATION IN RADIOTHERAPY



LAM SHAO WEI, SEAN
Head Data Science
SingHealth



IMPROVING HOSPITAL BED MANAGEMENT WITH AI



LOH YONG JOO
Deputy Head of Department of Rehabilitation
Tan Tock Seng Hospital



BEST PRACTICES ON AI AND ROBOTICS IN REHABILITATION CARE

AI AND ROBOTICS IN HOSPITAL AND HEALTHCARE

HARNESSING AI FOR CHRONIC DISEASES,
HOSPITAL MANAGEMENT AND PATIENT CARE

PRE-CONFERENCE SITE TOURS: 9 NOVEMBER 2020

CONFERENCE: 10 - 11 NOVEMBER 2020

VENUE: SHERATON TOWERS, SINGAPORE



BOOK BY 17 AUG 2020 TO SAVE UP TO S\$900

PARTICIPATING COMPANIES INCLUDE:

THE CONFERENCE AT A GLANCE

DAY 1: MONDAY, 9 NOVEMBER 2020 PRE-CONFERENCE SITE TOURS

- **Site Tour A:** Centre For Healthcare Assistive And Robotics Technology
- **Site Tour B:** AI And Robotics Applications At Parkway Hospital

DAY 2: TUESDAY, 10 NOVEMBER 2020 MAIN FORUM DAY ONE

- **Harnessing Data Science And AI To Improve Management Of Chronic Diseases And Mental Health In Singapore**
- **Pioneering The Future Of Patient Care With AI: A Case Study Of Woodlands Health Campus**
- **How Changi General Hospital Uses AI To Optimize Patient Flow, Bed Management And Resources**
- **Best Practices On AI In Rehabilitation Care**
- **How AI Helps In Epidemic Prediction**
- **Using AI To Diagnose Diabetic Eye Disease**

DAY 3: WEDNESDAY, 11 NOVEMBER 2020 MAIN FORUM DAY TWO

- **First In South-East Asia: How Surgeons Uses Robots For Precise Heart Surgery**
- **Harnessing AI To Halt Cancer: Breakthrough Case Study From NUS**
- **How Robots Help Run Singapore's Hospitals**
- **AI In Medical Diagnostics**
- **How Microsoft Uses AI To Scan Thousands Of Daily Research Papers Into An Enabler Of Precision Medicine**
- **Carrying Out Precise Heart Surgery With Robots: A Case Study From Tan Tock Seng Hospital**



AI AND ROBOTICS IN HOSPITAL AND HEALTHCARE CONFERENCE

Harnessing AI For Chronic Diseases, Hospital Management And Patient Care

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TESTIMONIALS OF PAST SPONSORS OF CLARIDEN GLOBAL'S DIGITAL HOSPITAL CONFERENCES



"The Conference was a well targeted and competently run by the Clariden Team. The event attracted an excellent standard of participants and speakers. As a sponsor, Cardio - Senic would recommend Clariden events."

Managing Director, Cardio-Jenic Pty Limited

"Good networking opportunity and good leads from the event."

Product Manager, Siemens Healthineers



"Helpful Organizing team ensuring all our needs were attended. Good quality of participants."

Sales Manager, Linktech Australia

OTHER SPONSORS AND EXHIBITORS OF CLARIDEN GLOBAL'S DIGITAL HOSPITAL CONFERENCE INCLUDE:



AI AND ROBOTICS IN HOSPITAL AND HEALTHCARE CONFERENCE

PAST PARTICIPATING COMPANIES

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Clariden Global's Digital Hospital Conferences for the past few years have garnered Healthcare and AI professionals from the various industries and leading companies:

Association of Corporate Counsel Australia
acQuire Technology Solutions
ACT Government
ACT Health Directorate
ACT Health Strategy & Corporate
Aeromedical Retrieval And Disaster Management Branch
Albury Wodonga Health
Alfred Health
Allity Aged Care
Allscripts
Alpenglow Australia
Anglicare
Aspen Medical
Auckland District Health Board
Austin Health
Australasian Telehealth Society
Australian Government Department Of Human Services
Australian Health Design Council
Australian Healthcare And Hospitals Association
Australian Unity
Ballarat Health Services
BaptistCare
Bellberry
Bendigo Health
Bendigo Kangan Institutte
Best In Care Australia
BICG
Bluleader
Bolton Clarke
BPM Vision
Breast Cancer Network Australia
BreastScreen Victoria
Bupa

Cabrini Health
Calvary Healthcare
CanadaBay Medical Imaging
Cancer Australia
Canterbury District Health Board
Capsa Healthcare
CareFusion Australia 316
Castlereagh Imaging & Illawarra Radiology Group
Central West Hospital And Health Service
Chris O'Brien Lifehouse
Cloud Client-Computing
Cochlear
Colin Street Day Hospital
Colliers
Commonwealth Bank
CPL - Choice, Passion, Life
Darwin Day Surgery
Deakin University
Dell
Dental Health Services Victoria
Department of Health and Aging
Department of Health and Human Services Victoria
Department of Queensland Health
Device Technologies
Digital Democracy
Digital Vine
Directorate of Health Capability, Joint Health Command, Australian Defence Force
Divinitus Consulting
Doclink
Draeger Medical Australia
EHealth NSW
Ellex Medical

Epworth Healthcare
Ernst & Young
Estia Health
Everlight Radiology
Family Planning NSW
Feros Care
First Choice Care
Forensicare
Fred IT Group
Fresenius Kabi Australia
Fujitsu
Genea
Glycemic Index Foundation
Gold Coast Hospital & Health Service
Group Homes Australia
HaBIC Research Information Technology
Hammondcare
Hearst Health
Hill-Rom
HISA Board Director
HPS
Hyland Software
IBM
icare
Institute of Environmental Science And Research
International Academy for Design And Health
Internode
InterSystems Australia
IPC Health

AI AND ROBOTICS IN HOSPITAL AND HEALTHCARE CONFERENCE

PAST PARTICIPATING COMPANIES

9 - 11 NOVEMBER 2020 | SHERATON TOWERS, SINGAPORE

IVF Australia
JB Medical Supplies
Jim Kolitsis Consulting
John Paul Village
Johnson & Johnson Medical
K Care Healthcare Equipment
Karl Storz Endoscopy Australia
LiveBetter Community Services
Lutheran Services
Mackay Base Hospital
Mackay Hospital & Health Service
Maquet
Mater Health
Medibank
Medtronic Australasia
Mercy Health
Metro North Hospital And Health Service
Millennium Plastics
MIMS
Modtec Industries Australia
Momentum Health Group
Monarch Consultancy
Monash Health
Monash University
Murray PHN
National Health Co-op
Nelson Marlborough District Health Board
Nepean Blue Mountains Local Health District
NETS - NSW Newborn And Paediatric Emergency Transport Service
NextMed Capital
NIA
Nib Health Funds
North Richmond Community Health
Northeast Health Wangaratta
NSW Health

Olivia Newton-John Cancer Research Institute
Oneview Healthcare
Orange Health Service
Pathology Queensland
Peninsula Health
Perth Eye Hospital
Peter MacCallum Cancer Centre
Pinnacle Health Group
Port Kembla District Hospital
Primaxis
Pulse+IT
Quay Consulting
Queensland Health
Royal Australasian College of Physicians
Royal Melbourne Hospital and The Women's Hospital
Royal Rehab
SAP
Serco Asia Pacific
Siemens Healthcare
Siemens Healthineers
SLHD Nursing And Midwifery Services
Softsols Group
Sonic Healthcare
South East Sydney Local Health District
South Western Sydney Local Health District
Southern District Health Board
Speech Processing Solutions
St John of God Midland Public And Private Hospitals
St Vincent's Health Australia
STARTTS
SteriHealth
Strategic Policy & Legislation Branch, DoH Queensland
Stryker South Pacific

Sunshine Hospital Radiation Therapy Centre
Susan Maclarn
Sydney & South Western Sydney Local Health Districts
Symbion
Telstra
The Alfred Emergency & Trauma Centre
The Bays Hospital
The CAPS Clinic
The George Institute for Global Health
The Royal Children's Hospital Melbourne
The Royal Women's Hospital
The Valley Private Hospital
Tolmar Australia
Trajan Scientific And Medical
TrustedImpact
Unify Software And Solutions
UnitingCare
University of Melbourne
University of New South Wales
University of Otago
Victorian Comprehensive Cancer Centre
Veterans And Veterans Families Counselling Service
Virtus Health
VMware
Waikato District Health Board
Waitemata District Health Board
Western Australian Department of Health
Western NSW Local Health District
Western Victoria Primary Health Network
Westmead Hospital
Weststate Private
ZEST Health Strategies

HEAR WHAT ATTENDEES GOT TO SAY ABOUT CLARIDEN GLOBAL'S DIGITAL HOSPITAL CONFERENCES

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“Good overview of the landscape of technology integration, particularly EHR’s.”

*Imaging Physicist
CancerCare Manitoba*

“Good range of topics, well-explained including relevance to clinical practice.”

*Specialist In Palliative Care
Port Kembla Hospital*



“I was able to meet and have good conversations with the speakers during the breaks.”

*Director Technology Operations
ACT Health*

“Provided a great opportunity to meet representatives from other health organizations and learn where they were up to in terms of their digital journey compared to us.”

Attendee of 2nd Digital Hospital Of The Future ANZ



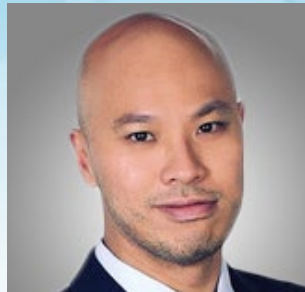
HEAR FROM KEY EXPERTS IN AI & HEALTHCARE FEATURED SPEAKERS LINE UP

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PROF ROBERT JT MORRIS

Chief Technology Strategist
Ministry of Health
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Clinical Director Department
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CHARLENE LIEW

Chapter of Diagnostic
Radiologists Chairman
College of Radiologists
Singapore



ADAM CHEE

Expert, Roster of Experts
(Digital Health)
World Health Organization
(WHO)



JONATHAN SCOLNICK

Research Scientist
National University Of
Singapore



DR GIDEON OOI

Radiologist and Chief Resident
SingHealth



HEAR FROM KEY EXPERTS IN AI & HEALTHCARE FEATURED SPEAKERS LINE UP

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CHER HENG TAN

Assistant Chairman Medical Board (Clinical Research and Innovation)
Tan Tock Seng Hospital



FRANCIS CHIN

Senior Consultant
National Cancer Centre Singapore



VARUN VEIGAS

Regional Manager
Digital Health Regulatory Affairs
Roche



HUREN SIVARAJ

Medical Oncologist
National Cancer Centre Singapore



DR. MATTHEW CHUA

Lecturer and Consultant
Institute of Systems Science
National University of Singapore



AUNG MYINT OO

Deputy Chief Medical Information Officer
Consultant Surgeon
Tan Tock Seng Hospital



DINESH KUMAR

Senior Consultant,
Director of Spine
Changi General Hospital



HAN LEONG GOH

Principal Specialist
Integrated Health Information Systems (IHIS)



TECK JACK TAN

Medical Director,
Northeast Medical Group
Director & Chief Medical Officer
TeleMedC Inc



HEAR FROM KEY EXPERTS IN AI & HEALTHCARE FEATURED SPEAKERS LINE UP

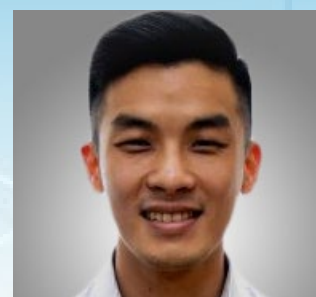
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TYLER HYUNGTAEK RIM
Clinical Scientist
Singapore National Eye
Centre



**DR. SREEMANE RAAJ
DORAJOO**
Pharmacist & Data Analyst
Health Sciences Authority



HONG SHEN LIM
Lead Informatics Specialist
Integrated Health Information
Systems (IHIS)



SHAILAJA SURESH
CEO
Gleneagles Global Hospitals



CHONG PHUI-NAH
CEO
National Healthcare Group
Polyclinics



DR. ANEEZ AHMED
Chief & Senior Consultant
Tan Tock Seng Hospital



KAH YEE EG
Chairman and Founder
UCrest Berhad



ANSHU ARUNDHATI
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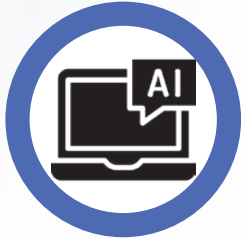


SHAO WEI, SEAN LAM
Head Data Science
SingHealth



CONFERENCE HIGHLIGHTS

9 - 11 NOVEMBER 2020 | SHERATON TOWERS, SINGAPORE



HOW AI AND ROBOTICS ARE THE KEYS TO SINGAPORE'S HEALTHCARE EVOLUTION



HOW WOODLANDS HEALTH CAMPUS PIONEER THE FUTURE OF PATIENT CARE WITH AI



HOW DOES CHANGI GENERAL HOSPITAL CARRY OUT PRECISE HEART SURGERY WITH ROBOTS



HOW NUS SUCCESSFULLY PERSONALIZED TREATMENT FOR ADVANCED CANCER WITH AI



HOW CHATBOTS EMPOWER PATIENTS TO MAKE THE RIGHT DECISION



HOW CHANGI GENERAL HOSPITAL USES AI TO OPTIMIZE PATIENT FLOW, BED MANAGEMENT AND RESOURCES



HOW TO IMPROVE FUNCTIONAL MOBILITY FOR PARAPLEGIC PATIENTS WITH EXOSKELETONS



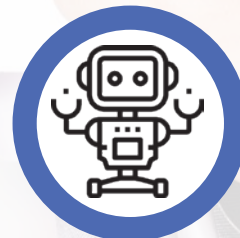
HOW A-EYE SPOTS SIGNS OF DIABETIC EYE DISEASE FASTER WITH AI



HOW AI ASSISTANT HELPS DOCTORS EXPEDITE DIAGNOSIS AND TREATMENT RECOMMENDATIONS



HOW AI AUTOMATES TUMOR OUTLINING IN RADIOTHERAPY TREATMENT



HOW TO BOOST TREATMENT AND PATIENTS SERVED BY 20% WITH A REHABILITATION ROBOT



HOW SINGHEALTH LEVERAGES AI TECHNOLOGY IN MEDICAL DIAGNOSTICS



HOW TO IDENTIFY PATIENTS AT RISK FOR EARLY INTERVENTION WITH PREDICTIVE ANALYTICS AND AI PROFILING



HOW TO TRANSFORM HEALTHCARE WITH HOME-BASED MONITORING AND PREDICTIVE ANALYTICS



HOW PREDICTIVE AI HELPS THE STATE OF PENANG PINPOINT POSSIBLE DENGUE OUTBREAKS



HOW MICROSOFT USES AI TO SCAN THOUSANDS OF DAILY RESEARCH PAPERS INTO AN ENABLER OF PRECISION MEDICINE

WHO YOU WILL MEET AT THE FORUM

9 - 11 NOVEMBER 2020 | SHERATON TOWERS, SINGAPORE

10 NOVEMBER 2020, EVENING: CHAMPAGNE NETWORKING SESSION

Enjoy a glass of champagne while networking with other likeminded AI and Healthcare experts on latest trends in the medical field.



Who You Will Meet:

SENIORITY LEVEL OF DELEGATES

40%

Vice President / Director /
General Manager

20%

Board / C-Level /
President / Founder/
Managing Director

20%

Head of
Department

20%

Manager



Industries/Sectors (including and not limited to):

- Public & Private Hospitals
- Local Area Health Services
- Primary care and allied care
- Medical Centers
- Government Health Ministries and Departments
- Various Medical Faculties and Departments of Universities/Medical Research Institutes
- Pharma Companies

In the Roles of: Chief/Head/Directors/Managers/Officers of

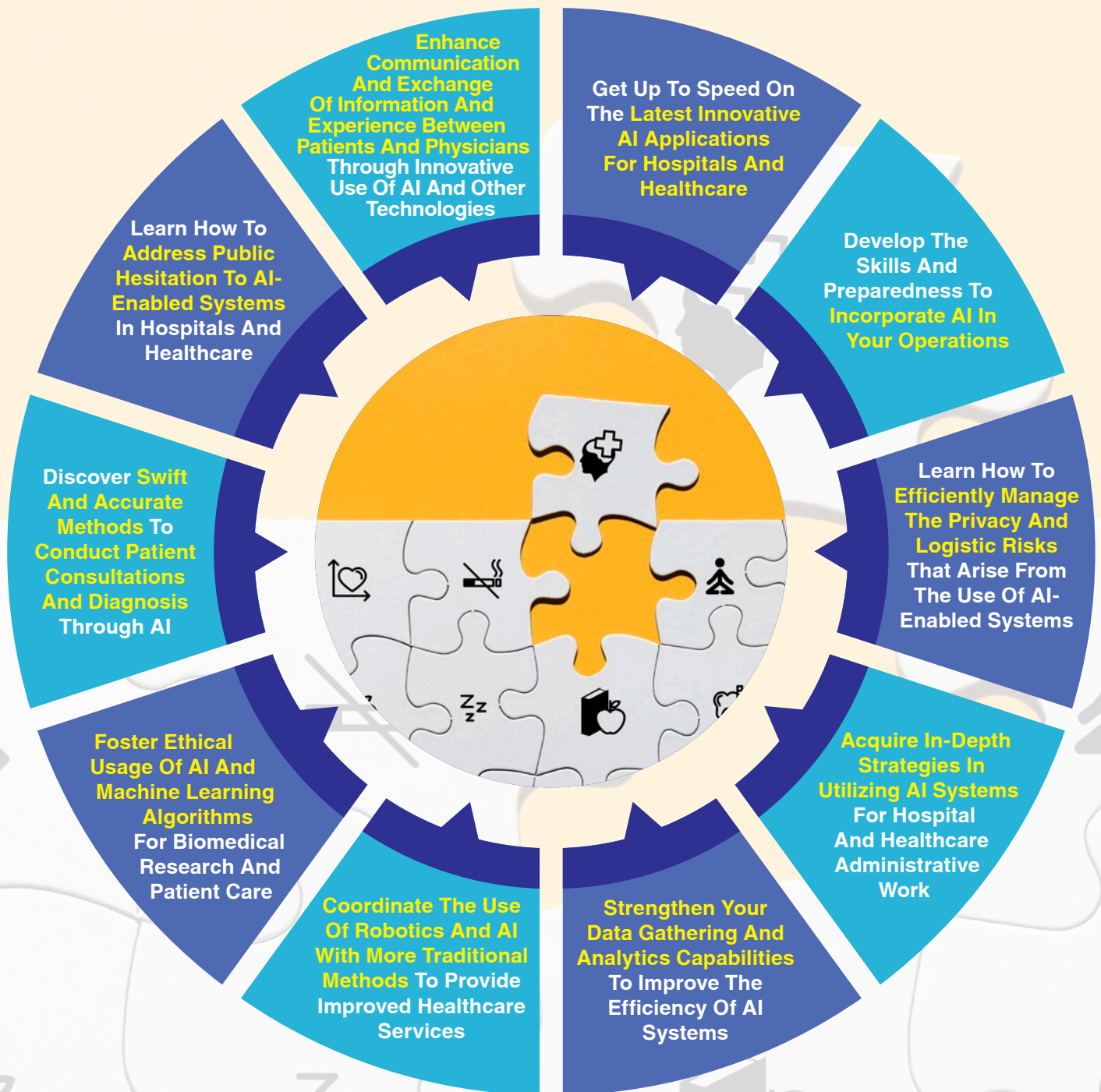
- CEOs/COOs/CMOs/CHIOs
- Chief Clinical Officers
- Chief Information Officers
- Chief Technology Officers

- Chief Transformation Officers
- Clinical Lead
- Clinical Technology Specialists
- Directors of Nursing
- Executive Directors
- Head of Department
- Head of Faculty
- Head of Genomics
- Head of Research
- Head of Transformation
- Head, Drug Discovery
- Head, e-Health
- Head, Emergency care
- Head, Operations
- Head, Stratified Medicine/Personalized Medicine
- Medical Directors
- Nursing Managers
- Principal Researchers
- Program Managers

10 REASONS TO JOIN US AT THE AI AND ROBOTICS IN HOSPITAL AND HEALTHCARE CONFERENCE

Harnessing AI For Chronic Diseases, Hospital Management And Patient Care

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PRE CONFERENCE SITE TOURS

9 NOVEMBER 2020 | SHERATON TOWERS, SINGAPORE

SITE TOUR A: CENTRE FOR HEALTHCARE ASSISTIVE AND ROBOTICS TECHNOLOGY



In line with Singapore's smart city initiative, the Centre for Healthcare Assistive & Robotics Technology (CHART) was created with the support of the Ministry of Health (MOH) and Singapore Economic Development Board (EDB). It is a platform that **enables healthcare professionals to work closely with industry, academia and research institutions to be able to co-develop and testbed impactful healthcare solutions in assistive technologies and robotics.** CHART also coordinates with the National Robotics Programme to support the end-to-end development of robotics technologies. CHART aims to conduct technology "roadmapping" with solution providers so as to identify synergies between healthcare & technological requirements and providing user insights in developing healthcare solutions.

SITE TOUR B: AI AND ROBOTICS APPLICATIONS AT PARKWAY HOSPITAL

Parkway Pantai has recently launched UCARE.AI which is an AI-powered hospital bill estimation system that has presently shown its ability to provide an 82% accuracy rate in estimating hospital bills. **The system is able to dynamically generate personalized and more accurate bill estimates based on relevant parameters such as the patient's medical condition, and medical practices, as well as the age, visiting frequency, and existing co-morbidities such as high blood pressure and diabetes.** It empowers the patients to make more well-informed decisions on the medical treatment options available. More importantly, it allows patients to have greater peace of mind over their healthcare so that they only need to focus on getting better from their condition.



**Space In Each Site Tour Is Limited,
Registrations Will Be Available On First Come, First Reserved Basis.**

MAIN CONFERENCE AGENDA

10 - 11 NOVEMBER 2020 | SHERATON TOWERS, SINGAPORE

DAY ONE - 10 NOVEMBER 2020

09:00 **Welcoming Speech, Opening Remarks & Thank You Sponsor Speech By Conference Producer**

HOW AI AND ROBOTICS ARE CREATING THE FUTURE OF HEALTHCARE

09:15 *Future Of Healthcare*
Keynote: Using Data Science And AI To Improve Management Of Chronic Diseases And Mental Health In Singapore



PROF ROBERT JT MORRIS
Chief Technology Strategist
MOHT



09:45 *Hospital Of The Future*
What Are Considerations In Getting The Healthcare System Ready For The Adoption Of AI

- Support System



STEPHEN CHAN
Clinical Director Department of Knowledge and Innovation
Woodlands Integrated Health Campus



10:15 *Morning Refreshment & Networking*

USING AI TO ENHANCE PATIENT MANAGEMENT

10:30 **Do I Need To Go To The A&E? How Chatbots Empower Patients To Make The Right Decision**

In the past, the only way people could find out whether a medical issue was serious or not was to go to the Accidents & Emergency (A&E) ward. The problem with that is that cases that may seem extremely serious could turn out to be something quite trivial.

For example, pain in the left arm — a symptom of a cardiac arrest — could turn out to be a simple pinched nerve. On the other hand, some people might dismiss a severe headache as being caused by stress or tension, and not go to the A&E. And that headache could be a symptom of a serious neurological problem.

In this session, the speaker will show how AI can help people make informed decisions on whether or not to make the trip to the A&E through triage chatbots that help analyze a user's symptoms and then make recommendations on actions to be taken.



DR TAN YAN YUAN
Family Physician and Director
My Family Clinic



11:00 **How AI Enable Hospitals To Make Better Decisions In Resource Allocation And Planning Using Operations Research**



HONG CHOON OH
Assistant Director
Changi General Hospital



11:30 **Roundtable Discussion**

- Challenges In AI Adoption & Scaling



SHAILAJA SURESH
CEO
Gleneagles Global Hospitals



- Overcoming Patient Resistance To AI In Healthcare



CHONG PHUI-NAH
CEO
National Healthcare Group Polyclinics



- Adversarial Attacks: The Risks Of Manipulation In AI Applications



KAH YEE EG
Chairman and Founder
UCrest Berhad



- Gaining Context Behind Diagnoses With Explainable AI



ANSHU ARUNDHATI
Senior Consultant
Singapore National Eye Centre



- The Hippocratic Oath Meets AI: Ethics And Fraud



ANEEZ AHMED
Chief & Senior Consultant
Tan Tock Seng Hospital



- The Future Of Surgery With Microbots And Nanobots



AUNG MYINT OO
Deputy Chief Medical Information Officer /
Consultant Surgeon
Tan Tock Seng Hospital
Vice Chairman Chapter of General Surgeons
College of Surgeons, Academy of Medicine Singapore



12:30 *Lunch & Networking*

AUTOMATING HOSPITALS WITH ROBOTIC ASSISTANTS

13:30 *Hospital Automation*
Automating Hospital Logistics With Transport Robots At Changi General Hospital



At Changi General Hospital, transport robots help cut down the logistical burden on staff by moving documents,

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drugs, specimens and linen. They navigate obstacles on their own, and are linked with the hospital's fire alarm system for emergencies. The hospital next plans to use robots to move heavier objects, like patient beds. Find out more about CGH's logistics automation initiative in this session.

14:00 **Best Practices On AI In Rehabilitation Care**

- An Overview Of The Use Of Robotics And Sensors In Rehabilitation Care
- The Considerations Of Using Deep Learning To Innovate Customized Rehabilitation Robotics In The Future
- Sharing Of Some Local Experiences And Challenges In Research With Regards To AI In Rehabilitation Care



LOH YONG JOO

Deputy Head of Department of Rehabilitation,  Tan Tock Seng Hospital

14:30 **Exoskeletons**

Improving Functional Mobility for Paralegic Patients with Exoskeletons



With adjustable motors that allow for more consistent practice of joint movements, exoskeletons are increasingly helping therapists to provide high-intensity, repetitive and task-specific treatment, which is hard for patients to achieve once they are discharged from hospital. Trials at the National University Health System have shown that four out of six patients who used an exoskeleton have improved in at least one category of functional mobility. Learn more about NUHS's efforts to improve patient mobility and independence through exoskeletons in this session.

15:00 **Afternoon Refreshment & Networking**

ENABLING EARLY DETECTION, PREDICTION AND DIAGNOSIS OF ILLNESS WITH AI

15:30 **AI In Illness Detection**

A-Eye: Spotting Signs Of Diabetic Eye Disease Faster With AI

Researchers from the Singapore National Eye Center and the National University of Singapore have developed a self-learning retinal screening AI, trained to analyze retinal photographs for signs of diabetic eye diseases in a fraction of the time it currently takes humans. Tests have shown it can return eye scan results in just 3 minutes instead of an hour. Learn more about this groundbreaking technology and its potential for helping remote, rural communities stave off diabetic blindness in this session.



TYLER HYUNGTAEK RIM

Clinical Scientist
Singapore National Eye Centre



16:00

Using AI In Garnering Insights From Clinical Notes For Detecting Adverse Medication Events

- An Overview On The Evolution Of Natural Language Processing (NLP) From Rule Based Statistical Analysis To AI-Driven Algorithms That Automatically Capture Sentences Relationships & Semantics
- The Processes Of Information Retrieval, Unstructured To Structured Conversion, Document Categorisation And Summarisation Will Be Covered And The Potential Impact Of NLP In Healthcare Will Be Discussed
- A Use Case Of Detecting Adverse Drug Events From Clinical Notes Using Various NLP Approaches



DR HAN LEONG GOH, PHD (ENG)

Principal Specialist
IHIS



Copresent With



DR SREEMANEE RAAJ DORAJOO,

BSC (PHARM) HONS, PHD
Pharmacist & Data Analyst
Health Sciences Authority



16:30

Building A Ai-Enabled Medical Imaging Platform For The Nation, And Synthetic Medical Imaging For Healthcare

- There Is A Worldwide Scarcity Of Annotated Imaging Data To Train AI Applications. Even More Pressing Is A Need For Medical Imaging Datasets Of Rare Diseases. Privacy Preserving Methods Are Currently Cost-Prohibitive And Computationally Demanding.
- This Session Explores A "Bleeding-Edge" Technology Which Looks At Using Generative Artificial Intelligence To Create Synthetic Datasets Of Labelled Image Data.
- Also, Find Out More About A Large-Scale AI-Enabled Medical Imaging Platform Which Integrates Into Hospital Data Systems Such As RIS/PACS And EMR



CHARLENE LIEW

Deputy Chief Medical Informatics Officer
Director of Cardiothoracic Imaging,

Changi General Hospital

Chapter of Diagnostic Radiologists Chairman,
College of Radiologists Singapore



17:00

Artificial Intelligence (AI) Based HealthTech: Are We There Yet?

- Examining The Possibilities And The Constraints Of The Current Artificial Intelligence (AI) Technologies
- Reviewing The Validity Of AI In Healthcare And Assessing Its Clinical Relevancy
- Implementing Strategies To Evaluate AI-Based HealthTech To Help Organization To Prepare For The "Future Of Healthcare"



ADAM CHEE

Expert, Roster of Experts (Digital Health)
World Health Organization (WHO)



MAIN CONFERENCE AGENDA

10 - 11 NOVEMBER 2020 | SHERATON TOWERS, SINGAPORE

17:30 AI And Data Science In Health Services Delivery

- Future Of Health Data Science
- Challenges And Opportunities In Data Science/AI For Health Services
- Use Cases From The Health Services Sector



SHAO WEI, SEAN LAM
Head Data Science
SingHealth



18:00 Closing Remarks by Conference Chairman

18:10 Champagne Networking Session



Enjoy a glass of champagne whilst networking with other like-minded individuals on topics that are of most interest to you and fellow delegates.



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DAY TWO - 11 NOVEMBER 2020

09:00 **Welcoming Speech, Opening Remarks & Thank You Sponsor Speech By Conference Producer**

PRECISION MEDICINE AND PERSONALIZED TREATMENT WITH AI

09:15 *AI Personalization Of Treatment*
Precision Medicine And Personalized Treatment Using AI To Identify Therapeutic Options In Blood Cancer



JONATHAN SCOLNICK
Research Scientist
National University Of Singapore



09:45 *Precision Medicine*
How Microsoft Uses AI To Scan Thousands Of Daily Research Papers Into An Enabler Of Precision Medicine



With some 4,000 biomedical research papers published every day, relevant information in specific areas that medical professionals need can be easily lost. Microsoft and Maine-based nonprofit research institution The Jackson Laboratory have teamed up to address this by building machine learning tools that help interpret massive volumes of research data. This has the potential to help providers choose the most appropriate treatments and speed up treatment breakthroughs. Find out how AI's data-crunching capabilities are changing the face of medicine in this session.

10:15 *Morning Refreshment & Networking*

OPTIMIZING HOSPITAL RESOURCE PLANNING WITH AI

10:30 *Hospital Robotics*
How Robots Help Run Singapore's Hospitals: Fireside Chat With Selina Seah, Director, Center For Healthcare Assistive And Robotics Technology:



Join the director of Singapore's national health robotics lab to find out how it is testing new ways to deliver care and improve staff productivity through three use cases for robotic technology in hospitals: logistics automation, direct interaction with people, and precision medicine.

11:00 **Using AI In Medical Diagnostics**

According to a report published by The Guardian newspaper, AI is on par with human experts when making medical diagnoses using images. Advocates for increasing the use of AI in healthcare highlight benefits

such as freeing time for better doctor-patient interactions and helping doctors develop tailored and targeted treatments.

This Session Will Explore The Potential Of Using AI In Medical Diagnostics. Points Of Discussion Include:

- Benefits And Risks Of Using AI In Medical Diagnostics.
- The Importance Of Ensuring That AI Complements And Not Replaces The Doctor-Patient Relationship
- How To Safeguard Against Algorithm And Machine Failure In Diagnostics



DR GIDEON OOI
Radiologist and Chief Resident
SingHealth



11:30

AI Regulation

Panel: Who Is Responsible For AI Misdiagnosis? Regulatory Perspectives On AI

This session will discuss the new legal and corporate challenges posed by the advent of AI in healthcare. For instance, disputes might arise from the autonomous nature of AI: how should the technology, and by vicarious liability the manufacturers, share responsibility for wrongful or negligent diagnoses? Firming up legislation will be key to overcoming hospitals' and doctors' reluctance to adopt AI - and all its benefits - into regular practice.



CHER HENG TAN
Assistant Chairman Medical Board
(Clinical Research and Innovation)
Tan Tock Seng Hospital



FRANCIS CHIN
Senior Consultant
National Cancer Centre Singapore



VARUN VEIGAS
Regional Manager
Digital Health Regulatory Affairs
Roche



HONG SHEN LIM
Lead Informatics Specialist
Integrated Health Information Systems (IHIS)



AI AND PREDICTIVE ANALYTICS FOR PREVENTIVE INTERVENTION

12:00

Improving Clinical Trial Initiation, Screening And Enrolment With AI:

- How The Oncoshot Clinical Trial Platform Empowers Cancer Clinical Trial Stakeholders In Singapore With Realtime Tools For Improved A More Efficient Clinical Trial Ecosystem

MAIN CONFERENCE AGENDA

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- Multiple Stakeholders Within Singapore's Cancer Clinical Trial Ecosystem Are Leveraging On Oncoshot's Unique Platform To Address The Needs Of The Individual Cancer Patient For A Wider And Complete Landscape Of Treatment Options As Well As Institutional Needs For A More Efficient System Of Clinical Trial Conduct
- This Session Dives Into The Unique Pain Points Of The Various Clinical Trial Ecosystem Stakeholders And How Oncoshot's AI-Supported And Oncologist-Supervised System Addresses The Unique Needs Of All Stakeholders



HUREN SIVARAJ
Co-Founder and CEO,
Oncoshot Pte Ltd
Medical Oncologist,
National Cancer Centre Singapore



12:30 **Lunch & Networking**

TECHNOLOGY AND IMPROVING END-LIFE CARE

13:30 **Going With Dignity - AI And Its Uses In Enhancing End-Of-Life Care**

Although it may not be a topic that many like to talk about in the medical field, it is inevitable that some patients - especially those with critical illnesses - will pass on. While not even AI can help prevent that, it can be used to help healthcare providers better evaluate the mortality of their terminally-ill patients and prepare them for the end.

This Session Will Look At How This:

- Enables Terminally Ill Patients To Make Informed Decision On Whether Or Not To Continue Medical Treatment
- Helps Healthcare Providers Come Up With Better Palliative Care Plans For End-Of-Life Patients
- Ensure Patients' Time, Money And Comfort Are Not Sacrificed On Futile Treatments

AI-ENABLED VIRTUAL ASSISTANTS IN HEALTHCARE

14:00 **AI For Clinical Decision Support**
Creating An AI Assistant To Help Doctors Expedite Diagnosis And Treatment Recommendations

Doctors in Singapore can now tackle medical cases with a smart assistant that is able to diagnose and recommend treatment for over 1,500 diseases. Launched by Chinese insurance giant Ping An, AI tool AskBob draws upon data from millions of anonymous patient records to support clinicians in medical consultations, self-learning and research. See how AI is enabling personalized treatment that helps achieve better disease control and reduce complications in this session.

14:30 **Chronic Illness Management**
Fireside Chat With Prof Tan Chorh Chuan, Executive Director, Office For Healthcare Transformation: How AI Will Transform Chronic Illness Management In Singapore



As diabetes, high blood pressure and high cholesterol are estimated to plague 1.5 million Singaporeans by 2020, research efforts are underway to explore the use of AI to reduce the number of patients suffering from these chronic diseases by 20% in 5 years. Join Professor Tan Chorh Chuan, executive director of the Ministry of Health's Office for Healthcare Transformation, for a discussion on the technology's potential to improve health and transform healthcare delivery.

15:00 **Afternoon Refreshment & Networking**

AUGMENTING TELEMEDICINE WITH AI

15:30 **AI For Telemedicine**
Transforming Healthcare With Home-Based Monitoring And Predictive Analytics

AI is shifting healthcare away from reactive care delivered only in the hospital or doctor's office, to continuous health and wellness. South American telehealth company AccuHealth is demonstrating this with the use of AI to manage remote, home-based care that improves patient satisfaction while reducing costly visits to emergency facilities or clinics. Learn more about AI's impact on telehealth and how it makes it possible for the patient to be the 'point of care' in this session.



TECK JACK TAN
Medical Director, **Northeast Medical Group**
Director & Chief Medical Officer
TeleMedC Inc



ROBOTIC SURGEONS

16:00 **How AI And Robotics Will Transform The Future Surgical Operations**

- Will AI And Surgical Robots Improve The Patients' Outcomes?
- Will Surgeons Be Replaced By AI Driven Autonomous Surgical Robots In The Future?



AUNG MYINT OO
Deputy Chief Medical Information Officer
Consultant Surgeon, **Tan Tock Seng Hospital**
Vice Chairman Chapter of General Surgeons
College of Surgeons, Academy of Medicine Singapore



MAIN CONFERENCE AGENDA

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16:30 *Robotic Surgeons*
Challenges In Adopting Robotics In The Surgical Theatre (Spine Surgery)



DINESH KUMAR
Senior Consultant, Director of Spine
Changi General Hospital



17:00 **AI And Big Data For The Future Of Health**



DR. MATTHEW CHUA
Lecturer and Consultant Institute
of Systems Science
National University of Singapore



17:30 **Closing Remarks By Conference Chairman**



MAKE THE MOST OF AI AND ROBOTICS IN HOSPITAL AND HEALTHCARE CONFERENCE

Harnessing AI For Chronic Diseases, Hospital Management And Patient Care

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9 - 11 November 2020

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