

Braving the Epidemic

敢創抗疫



Putting the “social” back in social distancing for the elderly

Despite being a proud grandmother with many grandkids, Granny Wong sat in her room, all alone on her 80th birthday. With the coronavirus outbreak showing no signs of ending soon, visitations in elderly care homes have been deemed too dangerous. The normally cheerful Granny Wong couldn't help but feel sad and lonely on her important milestone.

Suddenly, a familiar voice approached her room. She instantly recognised it to be her beloved 5-year old grandson, Jack. The door slowly swung open, but there was no sight of Jack. Instead, the care home's robot assistant Temi Medic appeared, with its “face”, an HD LED screen, showing Jack singing 'Happy Birthday'. Temi Medic then presents Granny Wong with an amazing candle-topped cake. “HAPPY BIRTHDAY GRANNY!”, little Jack led Granny Wong's children to yell in unison.

Granny Wong made a wish and blew out her candles. Her frown was turned upside down as her deepest wish had been granted: to see her loving family today.

Alvin, Cofounder of Cyberport Community Member Zunosaki says, “We're delighted that people like Granny Wong are able to celebrate their birthdays with family with a little help from the smart care robot. Since the COVID-19 outbreak, elderly care homes have been considered especially high-risk facilities. So we wasted no time to upgrade our robot into 'Temi Medic' to connect residents of care homes with their families through technology – while also lessening the burden of employees in these facilities.”

Alvin's team's efforts include installing localised software and hardware on Temi Medic, allowing the robot to respond to voice commands in Cantonese, while also giving it the additional function as a mobile robot assistant, to guide visitors and residents around the care home.



What's more, Temi Medic is also capable of patrolling care homes, freeing up valuable staff time that is spent providing care for residents instead. Last but not least, Temi Medic's facial recognition capability is able to recognise and locate residents who have visual impairment or dementia throughout the facility, further alleviating the staffs' burden and keeping all residents safe.



Equipped with a high-definition camera and video conferencing capabilities, Temi Medic makes remote visits easy whenever stringent social distancing measures are required. In addition, the care robot is well-equipped to play the role of a healthcare assistant, responsible for a range of auxiliary roles such as blood pressure checks, and body temperature and oxygen level measurements. It can also carry and deliver items such as water bottles to a predetermined locations.

Quick facts



- Zunosaki introduced Temi into the Hong Kong market from its Israeli developer last year. Temi was the world's first smart home robot equipped with a high-definition camera and artificial intelligence.
- Temi Medic has been adopted by over 30 care homes across the city since the outbreak.

Company Profile

Local start-up Zunosaki (Handy Rehab) was established in 2015 with the aim of developing robots with excellent cost-performance ratio to tackle the needs of the healthcare sector, and help people with impaired mobility. After years of research and development, it has released affordable robotics for rehabilitation. HandyRehab, which is a clinically proved and patented technology designed to help stroke patients in their recovery, where they can even eventually enjoy up to 90 percent of an individual's original physical ability.



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Learn more about
Handy Rehab

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隔著螢幕「生日快樂」

今天 是黃婆婆的80歲大壽，兒孫滿堂的她在安老院的房間卻異常寂靜，空無一人。新冠病毒疫情持續爆發，安老院屬高危地點謝絕探訪，黃婆婆已有多月未能見到子女兒孫，由「開心果」變成「苦瓜乾」，生日也只能獨自在房間渡過。

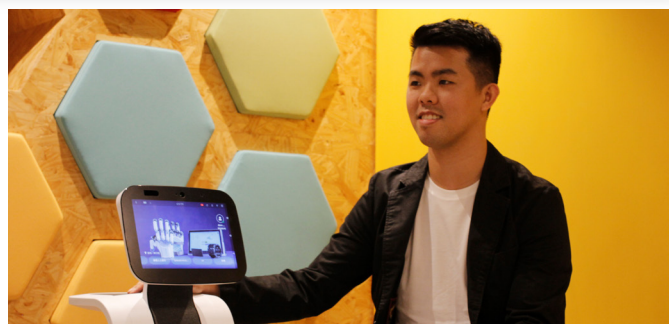
突然，房外傳來生日歌聲，而且聲音愈來愈近，黃婆婆認得出那是5歲孫兒阿滿的聲音。房門打開，不見阿滿的身影，卻見安老院的醫療機械人「Temi Medic」，它的「面部」- 高解像LED螢幕顯示阿滿正在唱著生日歌。「Temi Medic」更遞上一個點了蠟燭的生日蛋糕。阿滿隔著螢幕，帶領其他長輩及家人們向黃婆婆大聲說：「婆婆生日快樂！」黃婆婆閉起雙眼，許個願、吹熄蠟燭。終於能與兒孫們見上一面，黃婆婆的眼眶濕了，而臉上終於再掛上笑容。

數碼港社群成員、「頂尖頭腦」聯合創辦人Alvin表示：「黃婆婆能夠與家人透過智能護理機械人隔空慶生實在令我們感動。自從新冠病毒疫情爆發，安老院舍一直被視為高危地點，我們即着手將旗下的家居機械人升級為「Temi Medic」，以科技連繫安老院舍的院友和家人，亦分擔護理員部分工作。」

「頂尖頭腦」為多功能智能護理機械人「Temi Medic」，加入適用於香港的軟硬件，讓它「學懂」簡單廣東話，方便聆聽長者指示，甚至化身「流動客服」，帶領院友或訪客到安老院不同角落。



「Temi Medic」配備視像會議及高清鏡頭，方便謝絕探訪期間，進行遙距探訪；同時加入探熱等輔助醫療功能，能擔任「健康助理」進行包括量度血壓、體溫、血氧等基本健康檢查，甚至進行送水等簡單工作。



「Temi Medic」更會定期巡邏，提高晚間巡房的頻密程度，讓院舍能更貼心跟進院友狀況，人面識別功能更能幫助院舍追蹤視力缺失或認知障礙症長者，了解他們身處位置，減輕護理員壓力。

速覽



- 「頂尖頭腦」去年將Temi從以色列帶到香港，是全球首個設有高清鏡頭及人工智能的家居機械人。
- 疫情爆發至今香港已有近30間安老院舍引入了「Temi Medic」。

公司簡介

本地創企「頂尖頭腦」於2015年成立，致力設計及開發價格合理的機器人產品以解決醫療保健無障礙問題及改善殘疾人士的生活質素。經過多年研發，「頂尖頭腦」推出無線機械人手套HandyRehab，技術已獲得專利並經臨床驗證，可協助中風患者康復至達到90%全運動控制能力。



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