关于联智

联智健康科技有限公司(United MINDS HealthTech Limited，简称“联智”）是一家专注于健康科技领域的创新型企业，于2025年在香港成立。联智前身是微感成像科技有限公司和可穿戴智能传感技术有限公司。联智秉持融合创新的理念，面向健康需求，整合优势资源，提供精准、可靠的生理信号监测与健康管理解决方案，重点覆盖医疗级多维连续24小时动态血压测量系统和婴儿多生理参数监测设备领域。此外，联智还是文元智能医生系统（Dr. PAI — Personalized AI Doctor）的最早提出者并于2023年申请并取得美国与欧洲关于Dr. PAI注册商标。企业秉承“联接融合、智能创新、赋能健康”的使命，致力于健康工程领域，以科技创新技术推动重大疾病的早发现、早干预，早康复，为全球用户提供更安全、更高效的健康管理方案。

2001-NOW 联智创始团队深耕无袖带血压技术领域25余年。

2022-2025 前身：两家公司分别获得香港科学园Ideation项目以及HK Tech 300项目的资金支持，在无扰无袖带血压与智能传感领域奠定坚实基础。

2025-NOW 依托香港医学工程研究院，整合核心优势资源成立联智。

同年与多家公司达成战略合作，包括苏州健通医疗科技有限公司（健通）及浙江行见医联科技有限责任公司（孕橙），共同推动创新产品与临床转化。

联智健康 u-MINDS

联接融合

智能创新

赋能健康

CCII for Health

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联智健康 u-MINDS

联智健康科技有限公司

United MINDS HealthTech Limited (uMINDS)



科研论文	独创专利	斩获奖项
100+	125	30+

公司背景

- 联智团队核心成员深度参与多项国际标准制定工作，张元亭教授担任世界首个可穿戴无袖带血压测量设备标准（IEEE 1708）制定工作组主席、以及中国首个《可穿戴无袖带血压测量设备》团体标准制定工作组主席，其中IEEE 1708亦被FDA列为新参考标准之一；他还担任欧洲高血压学会血压监测和心血管变异性工作组成员及ISO无袖带血压监测设备标准委员会成员；
- 成功获批香港创新科技署InnoHK资金支持，建立香港心脑血管健康工程研究中心以及RAISE+项目支持建立联感科技医疗有限公司；
- 创始人及核心团队成员斩获地区与国际奖项30余项包括，2025年IFMBE DHD数字健康杰出贡献奖（亚洲学者首获此殊荣）、2025年香港HKIE50周年传奇大奖（优秀奖）、2024年第49届日内瓦国际发明展金奖两项、以及2023年IEEE-EMBS威廉姆斯·J.莫克尔奖，成为过去60年间仅有的14位获奖者之一。

TOP 1 无袖带血压研究领域排名第一 WORLDWIDE

产品及服务



24小时动态连续血压图监测

主营产品包括元表（π Watch）、智戒及文元智能医生（Dr. PAI）。联智基于创始人2003年发表的全球首个智能血压+心电戒指，研发24小时可穿戴混合式动态连续多参数监测设备，并计划于2026年申报NMPA及FDA医疗器械认证



婴儿无扰血压图及生理参数监测

联智基于本团队核心专利技术，研发新生儿及针对妊娠高血压超小型无扰连续血压及多生理参数监测设备。该设备不但用于医院持续且非侵入性地监测危重婴儿血压，还可以用于婴幼儿家庭远程监测。



医用生阻连续血压监测系统

联智与健通深化合作，基于生物阻抗原理与智能血压/心电戒指开发基于生物阻抗信号的多模血压算法及多功能设备。健通无创心排量监测仪获国家药监局二类认证，实现连续多参数监测。



备孕-孕中-孕后血压监测

联智与孕橙共同研发围孕期女性健康血压监测与优孕解决方案，打造“检测+管理”一体化产品并形成真实世界证据(RWE)。孕橙在居家排卵监测、Home IVF、用户运营及真实世界研究方面经验丰富。

技术突破

二十五余载积淀：无袖带血压研究领域排名全球第一，打造多个“首个”无袖带血压原型机设计及算法。

2003 2006 2012 …



首个血压柔性贴片多波长模块及手表…

2025 2023 2022



混合式血压	血压成像设备	多模态传感及算法
中国专利 202511966271.7	中国专利 202211528777.6	中国及美国专利: 202221308988.4, 114983347A; 20230380700A1, 20230371821A1

个性化AI医生 (Personalized AI Doctor/Dr. PAI)



修改自：Xiang Ting, Zijun Liu, Nan Ji, Lei Lu, David A. Clifton, Xiaohe Li, M. Jamal Deen, Nigel H. Lovell, Jipsa Chelora Veetil, Han Zhu, Bryan Yan, Vincent Mok, Yuan-Ting Zhang*. "Towards wearable sensing-based precise and rapid responding system for the early detection of future pandemic." *Connected Health And Telemedicine* 2 (2023).

ABOUT uMINDS

United MINDS HealthTech Limited (uMINDS) is an innovative enterprise dedicated to the field of healthcare technology, established in Hong Kong in 2025. The company was formed through the strategic integration of Micro Sensing and Imaging Technologies Ltd. and Wearable Intelligent Sensing Technologies Ltd. Guided by the philosophy of integrated innovation, uMINDS addresses global healthcare needs by consolidating advanced technological resources. The company is committed to providing precise and reliable intelligent physiological signal monitoring and health management solutions. Its core focus lies in the development of medical-grade, multi-dimensional, continuous 24-hour blood pressure (BP)/Tonoarteriogram (TAG) monitoring systems, as well as multi-parameter physiological monitoring devices for neonatal and infant populations.

OUR JOURNEY

2001-NOW

The team has been deeply engaged in the field of cuffless BP technology for over 25 years.

2022-2025

Predecessors: The two companies received support from the HKSTP Ideation Program and HK Tech 300, building a strong foundation in cuffless BP and intelligent sensing technologies.

2025-NOW

Backed by the Hong Kong Institutes of Medical Engineering (KIME), uMINDS was established by integrating core technological and strategic resources.

In 2025, strategic partnerships were established with multiple companies, including Kaonter Medical Technology Co., Ltd. (Kaonter) and Zhejiang Xingjian Yilian Technology Co., Ltd. (SheCare), to jointly advance innovative products and clinical translation.

联智健康 u-MINDS

CCII for Health

Connection, Convergence, Intelligence & Innovation

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COOPERATIVE PARTNERS

健通医疗 KAONTER

孕橙



联智健康 u-MINDS

United MINDS HealthTech Limited (uMINDS)

Empowering the Future of Continuous Blood Pressure and Infant Monitoring



Papers 100+

Patents 125

Awards 30+

COMPANY BACKGROUND

The core members of the team have been deeply involved in developing the world's first wearable cuffless blood pressure measurement standard, IEEE 1708, as well as China's first group standard for wearable cuffless blood pressure measurement devices. IEEE 1708 has also been recognized by the U.S. Food and Drug Administration (FDA) as one of its reference standards..

The team also secured support from the InnoHK initiative to establish the Hong Kong Research Center for Cardiovascular Health Engineering, as well as RAISe+ funding to establish uSensing.

The founder and core team members have received over 30 regional and international awards, including the 2025 IFMBE DHD Outstanding Contribution Award in Digital Health (the first Asian recipient), two Gold Medals at the 49th International Exhibition of Inventions Geneva in 2024, and the 2023 IEEE-EMBS William J. Morlock Award (one of only 14 recipients worldwide over the past 60 years.)

TOP 1 In the field of cuffless blood pressure research. WORLDWIDE

PRODUCTS PORTFOLIO



24-hour Continuous BP/TAG Monitoring

Core products include π Watch, Smart Ring, and Dr. PAI. Building on the world's first smart BP and ECG ring published by founder Yuanting Zhang in 2003, uMINDS has developed a 24-hour wearable hybrid continuous multi-parameter monitoring device, with plans to pursue NMPA and FDA medical device certification in 2026.



Non-invasive Infant TAG Monitoring

Leveraging the team's core patented technologies, uMINDS is developing ultra-miniaturized, unobtrusive continuous BP and multi-parameter physiological monitoring devices for newborns and pregnancy-induced hypertension. The system enables continuous, non-invasive BP monitoring for critically ill infants in hospitals, while also supporting remote monitoring for infants at home.



Medical Bioimpedance-based TAG Monitoring

Collaborated with Kaonter to develop bioimpedance-based multimodal BP algorithms and multifunctional devices integrated with intelligent BP and ECG ring technologies, enabling continuous, non-invasive BP monitoring in clinical settings and supporting remote health monitoring at home.



Preconception, Pregnancy, and Postpartum BP monitoring

Co-developing BP monitoring and maternal health management solutions for women during the perinatal period with Shecare, creating an integrated "monitoring + management" platform supported by real-world evidence (RWE).

TECHNOLOGICAL BREAKTHROUGHS

Over 25 years of expertise:
Ranked No. 1 globally in cuffless BP research, with multiple world-first cuffless BP prototype designs and algorithms developed.

2003 **2006** **2012** ...





2025 **2023** **2022**



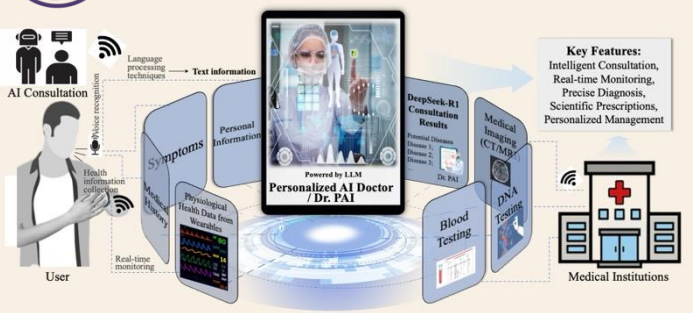


Hybrid BP
CN Patent: 202511966271.7

BP Imaging Devices
CN Patents: 202211528777.6

Multimodal Sensing and Algorithms
CN&US Patent: 202221308988.4, 114983347A; 20230380700A1, 20230371821A1

Dr. PAI
Personalized AI Doctor



Adapted from: Xiang Ting, Zijun Liu, Nan Ji, Lei Lu, David A. Clifton, Xiaohe Li, M. Jamal Deen, Nigel H. Lovell, Jipsa Chelora Veetil, Han Zhu, Bryan Yan, Vincent Mok, Yuan-Ting Zhang*. "Towards wearable sensing-based precise and rapid responding system for the early detection of future pandemic." *Connected Health And Telemedicine* 2 (2023).