

HAI4M CEO Chen & AI×HAI Lab Release Thought-Provoking Book On Synergy Between Embodied AI & Rehabilitation Toward AGI

Now available on Amazon, Unlocking Embodied Intelligence & Rehabilitation connects functional restoration with a foundational path toward embodied AI and AGI

SILICON VALLEY, CA, UNITED STATES, August 28, 2026 /EINPresswire.com/ -- HAI4M today announced the release on Amazon of *Unlocking Embodied Intelligence & Rehabilitation: From the Five Capacities and Five Wisdoms to the Medicine of Oneness*, a thought-provoking new book by HAI4M CEO and Founder Jason Chen, developed through the AI × HAI Lab, an affiliated nonprofit research lab of HAI4M.

The book opens with compelling questions: What is embodied intelligence? Can adding a large language model—or even an LLM plus a world model—suddenly make a robot embodiedly intelligent like a human? When neurological injury takes away functional capability, can movement simply be re-trained through external commands and prescribed protocols? Or must rehabilitation reactivate the patient's innate embodied intelligence—the living mechanism through which intention enters the body, becomes action, and opens the world?

Drawing upon Chen's sixteen years devoted to intelligent rehabilitation—and experience shaped through collaboration via affiliated entities like Hocoma and Motek with more than 1,800 leading neurorehabilitation centers, where nearly 6,000 robotic and advanced immersive systems have trained millions of patients—the book advances a transformative proposition:

Rehabilitation is re-cultivating innate embodied intelligence, and the restoration of human embodied intelligence can illuminate a foundational path toward embodied AI and AGI.

"Function cannot simply be installed from outside; it must be regenerated from within," said Chen. "A therapist can guide, a robot can assist, an immersive environment can awaken purpose, and AI can measure and adapt. But true recovery begins only when intention again enters the body, the body again bears intention, and behavior again becomes meaningful participation in life."

The book names this living architecture IBB—Intention, Body, and Behavior as One. Intention gives intelligence direction; the body gives it form, limitation, and capability; behavior carries it into tasks and the world; and consequence returns as feedback that transforms the brain, body,

action, and next intention.

Brain intention □ Embodied action □ Functional behavior □ Intelligent feedback □ Personalized restoration

For people living with stroke, traumatic brain injury, spinal cord injury, Parkinson's disease, and other neurological conditions, injury does not merely weaken muscles or interrupt movement. It can fracture the IBB loop through which knowing becomes doing. Rehabilitation therefore restores more than movement: standing recovers upright selfhood; walking recovers direction and world-entry; reaching restores agency and possibility.

The book argues that AI faces a parallel challenge. Artificial intelligence has already made a historic leap from storing what is known to exhibiting the power to know. Yet knowing is not acting, representation is not reality, and attaching a robotic body to cognition does not make cognition truly embodied.

Intelligence becomes embodied only when it can enter a body, bear weight, accept limitation, risk failure, encounter consequence, reorganize through feedback, and prove itself in the world. Rehabilitation reveals this passage with unmatched rigor because superficial task completion cannot masquerade as genuine capability: moving a patient's limb is not the same as restoring agency, just as reproducing a trajectory is not the same as understanding and learning through action.

This insight directly advances HAI4M's mission to build an integrated Brain–Body–Behavior Intelligence platform. By integrating rehabilitation robotics, immersive virtual reality, brain–computer interfaces, sensing, Human Body Modeling, artificial intelligence, movement science, and clinical expertise, HAI4M seeks to transform every therapeutic interaction into a continuous cycle of measurement, learning, adaptation, and personalized restoration.

The shared IBB architecture also opens a revolutionary passage between human recovery and machine learning. Rehabilitation offers embodied AI one of its most truthful proving grounds: vulnerable bodies, incomplete actions, meaningful goals, uncertainty, risk, consequence, and continual adaptation. Embodied AI, in return, can give rehabilitation new powers of perception, modeling, personalization, assistance, prediction, and discovery.

“What patients must relearn to recover, machines must learn to become truly embodied,” Chen added. “The patient teaches the machine how intelligence struggles, adapts, and is reborn through action; the machine helps the patient relearn how intention becomes movement, movement becomes capability, and capability returns a person to life.”

Moving from neuroplasticity, sensory integration, body schema, emotion, motivation, and task-oriented training to robotics, immersive VR, five-dimensional data fields, Large Movement Models, and digital-intelligent twins, the book builds a new bridge between functional

restoration and embodied machine learning.

At its center are the Five Capacities and Five Wisdoms—knowing, resonance, direction, embodied action, and integral co-becoming. When fragmented, they remain partial abilities; when reunited through IBB, they become living wisdom. This is the deeper meaning of the Medicine of Oneness: reconnecting what has been interrupted, restoring what has been divided, and enabling an injured life to regain its path into the world.

For HAI4M, this is more than a book. It expresses the deeper purpose of its technological mission: not simply to create more intelligent machines, but to place intelligence in the service of human restoration—reconnecting intention with action, capability with the body, and possibility with life.

About HAI4M

HAI4M—Human AI for Mobility, Movement, Medicine & Mankind—leverages its global leadership in robotic and virtual-reality technologies for functional care while aspiring to build the world's leading integrated Brain-Body-Behavior Intelligence platform. Together with its affiliated companies, Hocoma AG and Motek Medical B.V., HAI4M integrates rehabilitation robotics, immersive VR, BCI, neurotechnology, artificial intelligence, movement science, data intelligence, and clinical expertise to advance neurological rehabilitation, functional restoration, brain health, and human performance.

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