

HAI4M CEO Jason Chen and AI × HAI Lab Release Visionary Book Charting a Path Toward Embodied AI and AGI

The Path Toward Embodied AI & AGI advances IBB from restoring human function toward a foundational architecture for general intelligence acting in a real world

SILICON VALLEY, CA, UNITED STATES, August 31, 2026 /EINPresswire.com/ -- HAI4M today announced the release two Volume book: The Path Toward Embodied AI & AGI: IBB Integral Ontology, a visionary new work by HAI4M CEO Jason Chen, developed through the AI × HAI Lab.

At a moment when LLMs, VLA, JEPAs, spatial intelligence, physical AI, numerous world or world+action models, etc are rapidly redefining the frontier of intelligent systems, the book asks not merely which architecture can perform best within predefined tasks and controlled environments, but which can develop the general intelligence required to enter an open, living world:

After machines acquire the power to know, how can knowing enter a body, become action, learn through consequence, and evolve toward true general intelligence across the uncertainty, change, relationships, and responsibilities of real life?

Large models have achieved a historic leap from processing what is known toward exhibiting the power to know. Yet knowing is not acting. Representation is not reality. Predicting an action is not bearing its consequences. A world model is not yet a lived world—and attaching a robotic body to cognition does not make cognition capable of navigating open-ended, real-life situations.

The book's governing progression is:

Knowledge → Knowing → Embodiment → Action → World-Generation

"The path to AGI does not begin by making models infinitely larger," said Chen. "It begins when knowing enters action, action submits to the judgment of reality, and intelligence learns to remain coherent, adaptive, and responsible within an open, living world."

The book describes world-generation as the point at which intelligence moves beyond representing or simulating reality and begins to participate in it—acting under real constraints, encountering situations that cannot be fully specified in advance, receiving the world's response, reorganizing through consequence, and opening new possibilities for action.

Advancing a Three-Book Intellectual Journey

The new work advances an interconnected three-book inquiry into the nature and future of intelligence.

Unlocking Cognitive Intelligence explored how AI moves from the accumulation of the known toward the emerging power to know—and why cognition must become embodied before knowing can become real action.

Unlocking Embodied Intelligence & Rehabilitation revealed, through the demanding reality of human rehabilitation, that embodied capability cannot simply be installed from outside. It must be regenerated and cultivated from within. Rehabilitation therefore emerges as a prototype science of embodied intelligence: what patients must relearn to recover, machines must learn to become truly embodied.

This book takes the decisive next step. It presents a systematic pathway by which cognitive intelligence may become embodied intelligence, embodied intelligence may develop general capability, and AI may learn to act adaptively across unfamiliar situations in an open world—advancing toward AGI.

Together, the three works trace one continuous ascent:

How knowing arises □ How knowing becomes embodied action □ How embodied intelligence becomes general intelligence in the living world

IBB: From Cognitive Models to Living Intelligence

At the center of the book is IBB—Intention, Body, and Behavior as One, the integrated Brain–Body–Behavior Intelligence framework underlying HAI4M’s technological mission. IBB is not a linear pipeline in which cognition is first completed and then transmitted to a body for execution. It is a living intelligence loop continuously shaped by the body, the situation, and the world. Intention gives intelligence direction and purpose. The body gives it form, capability, limitation, and weight. Behavior carries it into real tasks, relationships, and environments. Consequence returns as feedback, transforming future intention, bodily organization, action, and possibility. Within this cycle, the body is no longer treated as a vehicle carrying a finished instruction. It becomes the generative field through which intelligence is situated, tested, corrected, and made real. The environment is no longer passive background; it becomes a co-author of intelligence with dynamic responses.

Across twenty-one chapters, the book examines perception–action loops, temporality, physical intelligence, memory, VLA, JEPA, spatial intelligence, and world models. It then develops IBB through Human Body Modeling, Large Movement Models, brain–computer interfaces, CAREN, digital-intelligent twins, and human–machine–world co-learning.

“A system may describe, simulate, and plan within the world—yet still possess no world it can truly enter,” Chen added. “Embodied intelligence begins when the world is no longer background, but a living participant that resists, changes, surprises, responds, teaches, and rewrites intelligence through action.”

Rehabilitation as a Proving Ground for AGI

The book identifies rehabilitation as one of embodied intelligence's most truthful proving grounds—not an abstract benchmark, but the open, changing reality of human life.

Neurological injury can fracture the unity of intention, body, and behavior: a patient may know and will an action yet be unable to enact it. Recovery therefore requires more than assisted movement. Intention must re-enter the body, the body must reorganize through purposeful task and feedback, and restored capability must transfer into everyday life.

AI faces the same test. Reproducing an action is not acquiring capability; succeeding in a controlled task is not general intelligence; modeling a world is not learning to inhabit and act responsibly within it.

Through Hocoma AG and Motek Medical B.V., HAI4M's experience spans more than 1,800 neurorehabilitation centers, where nearly 6,000 robotic and immersive systems have supported millions of patients. These insights inform an architecture through which machines learn from embodiment, uncertainty, failure, adaptation, and regeneration—while AI gives rehabilitation new powers of sensing, modeling, personalization, and discovery.

From Task Intelligence to an Ecology of Intelligence

The book advances beyond task intelligence toward the Seven Wisdoms and network-ontological intelligence—envisioning AGI not as an omnipotent machine above the world, but as an ecology in which humans, machines, bodies, environments, institutions, and data learn, participate, and bear responsibility together.

Superintelligence, in this vision, is not intelligence over all things, but intelligence through all things.

This directly advances HAI4M's mission to build an integrated Brain–Body–Behavior Intelligence platform: restoring human capability while illuminating a more embodied, adaptive, responsible, and life-serving future for AI.

Links on Amazon for those two Volumes:

<https://www.amazon.com/dp/B0HH6ZHBJV>

<https://www.amazon.com/dp/B0HH7JG3Y2>

Barbara van Medved

HAI4M Inc

Info@HAI4M.com

Visit us on social media:

[LinkedIn](#)

[Other](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/938309537>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors

try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2026 Newsmatics Inc. All Right Reserved.