

The Computational Human Behavior Center

Oak Ridge National Laboratory

Our Mission

The **Computational Human Behavior Center** (CHBC) is dedicated to maintaining a distinguished solution center for the research and development of computational behavior products for scientific inquiry, knowledge processing, modeling, simulation, and analysis.

An innovative and vibrant intellectual group focused on human behavioral modeling informed by computational and experimental sciences comprises the CHBC. Our professional staff and constituents represent a broad range of academic disciplines with varied research interests providing an uncommon blend of social and cognitive behavioral sciences and computational knowledge. We have one common passion: **to contribute to the science of the human mind.**

Our Goals

- Advance the discovery and knowledge front of cognitive-based models for behavior.
- Produce notable research for developing computational behavioral models.
- Develop high-quality, data driven computational behavioral models.
- Produce unique, re-usable solutions for end-users based on our research and development efforts.
- Host the Annual **Human Behavior-Computational Intelligence Modeling Conference** to foster the exchange of new ideas, research, and innovation.

A Sample of Our Research Interests

- Socio-economic models of consumer behavior with respect to green energy.
- Socio-cultural models of opinion and rumor propagation.
- Neuro-cognitive research of emotion, decision-making, learning, and memory.
- Psycho-political models of leaders and nation-states.
- Document analytics for structuring and making sense of data.

Our Facilities

In the pursuit of scientific inquiry and technical innovation, the CHBC conducts state-of-the-art research and development using leading edge computing technologies. Our high-performance computing assets, which includes the world's fastest supercomputer for open science research, enable us to pursue a broad array of computational problems from intricate neural-based models to large-scale simulation scenarios.

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