Invitation to Collaborate in Human-Like Computing

Members of the Human-Like Computing Network and other researchers with an interest in general problem-solving ability at the individual level, whether in humans, or whether artificial, as well as researchers with an interest in general problem-solving ability at the group level (collective intelligence), or any other interested parties, are invited to take part in an interdisciplinary collaboration to assess the validity of claims that:

1. Human-Centric Functional Modeling provides a quantifiable definition for general problem-solving ability (intelligence).
2. Human-Centric Functional Modeling provides a solution for reliably moving AI closer towards general problem-solving ability.
3. Human-Centric Functional Computing provides a valid conceptual model for general problem-solving ability in a single entity (i.e. provides a model for AGI), or for general problem-solving ability in a group of intelligent entities (i.e. provides a model for a General Collective Intelligence).
4. Human-Centric Functional Computing provides a valid conceptual model for exponentially increasing the general problem-solving ability of a single entity (i.e. provides a model for AGI with exponentially greater intelligence), or for exponentially increasing the general problem-solving ability of a group of intelligent entities (i.e. provides a model for a GCI with exponentially greater intelligence than any individual participant).

This collaboration is necessary because these concepts originated outside the field of Human-Like Computing, and though the concepts have been published in peer reviewed conferences and journals, to experts in this field the ideas might contain massive holes. At the same time sharing these concept of understanding cognition in terms of navigating the network of concepts in a "conceptual space" is simply necessary to serve the larger goal of achieving social, economic, and other impact. Because understanding how interventions to achieve the sustainable development goals can be represented as paths in conceptual space is critical in understanding how networks of interventions can be used to massively increase impact on those goals, which is predicted to massively increase our collective ability to solve collective challenges like poverty and climate change. But first it’s necessary to find a way to get more credible and established specialists in the field (like the invitees on this list) to fill the knowledge gaps in this approach by collaborating to publish this work or by publishing their own work on the topic, so the concepts can spread. People in applicable disciplines like sustainable development might not be well positioned to understand what will be published, but they will understand and believe the credentials of the publishers.

These claims are justified in a number of draft papers (below) for which co-authors from the Human-Like Computing community are being sought as collaborators:

- Exploring the Existence of Functional State Spaces. Available at: https://docs.google.com/document/d/1OnLSFviUPIrue3uR9A02JZlPmMP5GqP/edit?usp=sharing&ouid=117428025554472601075&rtpof=true&sd=true
• Using Human-Centric Functional Modeling to Define and Quantify General Problem-Solving Ability (Intelligence). Available at: https://docs.google.com/document/d/1vzXOZVUTPdV-0qQRHqewFrEnAqO-9Vrt/edit?usp=sharing&ouid=117428025554472601075&rtpof=true&sd=true

• Using Human-Centric Functional Modeling to Move AI Closer to General Problem-Solving Ability (Intelligence). Available at: https://docs.google.com/document/d/1It0u7EepFghg8MIWRV4JLezBvXgY0JzU/edit?usp=sharing&ouid=117428025554472601075&rtpof=true&sd=true

• Using Human-Centric Functional Modeling to Implement Artificial General Intelligence or General Collective Intelligence. Available at: https://docs.google.com/document/d/1D2HMM0kacikJ89zca7ljN-rpZhtdLhxH/edit?usp=sharing&ouid=117428025554472601075&rtpof=true&sd=true

• Using Human-Centric Functional Modeling to Exponentially Increase Artificial General Problem-Solving Ability. Available at: https://docs.google.com/document/d/1Iedb3obnxCsx0OVlkQSqN4-_NLcHLkAh/edit?usp=sharing&ouid=117428025554472601075&rtpof=true&sd=true

The goal is that members of the HLC community and other disciplines might use their expert knowledge of their fields to validate the concepts in this potentially very different approach, and that they might use their knowledge of the literature to place this work in the context of other work in their fields so that it might be more readily communicated to others.

If interested, please contact awilliams@nobeahfoundation.org with any questions and to be informed of upcoming events. Please feel welcome to register for the upcoming online meetings below regarding this collaboration.

Event: Discuss Collaboration Re: "Exploring the Existence of Functional State Spaces"
9:00-10:00 AM Monday, October 24, 2022, Atlantic Standard Time (AST)
Google Meet joining info
Video call link: https://meet.google.com/xzh-ddwj-pfy

Event: Discuss Collaboration Re: "Using Human-Centric Functional Modeling to Define and Quantify General Problem-Solving Ability (Intelligence)"
9:00-10:00 AM Tuesday, October 25, 2022, Atlantic Standard Time (AST)
Google Meet joining info
Video call link: https://meet.google.com/vez-bkrk-agv

Event: Discuss Collaboration Re: "Using Human-Centric Functional Modeling to Move AI Closer to General Problem-Solving Ability (Intelligence)"
9:00-10:00 AM Wednesday, October 26, 2022, Atlantic Standard Time (AST)
Google Meet joining info
Video call link: https://meet.google.com/vgs-jcsb-pcs

Event: Discuss Collaboration Re: "Using Human-Centric Functional Modeling to Implement Artificial General Intelligence or General Collective Intelligence"
9:00-10:00 AM Thursday, October 27, 2022, Atlantic Standard Time (AST)
Google Meet joining info
Video call link: https://meet.google.com/idk-dajc-wxk
Event: Discuss Collaboration Re: "Using Human-Centric Functional Modeling to Exponentially Increase Artificial General Problem-Solving Ability"
9:00- 10:00 AM Friday, October 28, 2022, Atlantic Standard Time (AST)
Google Meet joining info
Video call link: https://meet.google.com/frb-kmrn-zgi