KINDS OF INTELLIGENCE
TYPES, TESTS AND MEETING THE NEEDS OF SOCIETY

NIPS2017 Symposium
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www.kindsofintelligence.org

Organizers:
Jose Hernandez-Orallo, T.U. Valencia / CFI-Cambridge
Matthew Crosby, Imperial College
Zoubin Ghahramani, University of Cambridge
Tomaso Poggio, MIT
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• Existing research in machine learning and artificial intelligence has been constrained by a focus on specific tasks chosen because of:
  • Their importance in human intelligence,
  • Their expected practical impact,
  • Their suitability for testing and comparison,
  • Or simply by an accident of research trends.
• Despite this diversity of tasks, we can’t get rid of this simplistic view of AI:
• However, the intelligence landscape extends far beyond our current capabilities, with many unexplored dimensions!
• This is the actual intelligence landscape we want to explore!
• How can we best explore and map this **intelligence landscape**?
  
  • A broader perspective of the possible kinds of intelligence beyond human intelligence, and the role of human-like intelligence for AI and ML.
  
  • Roadmaps and measurements providing an improved understanding of research objectives and breakthroughs,
  
  • A more purposeful analysis of where progress should be made in this landscape in order to best benefit society.
• 2:00-4:00: SESSION 1: “The intelligence landscape”
  • Speakers: Lucia Jacobs, Alison Gopnik, Demis Hassabis.
  • Panel: “What can we learn from types of intelligent behaviour that are not usually covered by AI methods, and the other way round?”

• 4:00-4:30: COFFEE BREAK

• 4:30-6:30: SESSION 2: “Mapping the intelligence landscape”
  • Speakers: Josh Tenenbaum, Gary Marcus, Katja Hofmann
  • Panel: “How can we characterise the landscape of intelligent systems and locate human-like intelligence in it?”

• 6:30-7:30: LIGHT DINNER BREAK

• 7:30-9:30: SESSION 3: “The intelligence landscape society needs”
  • Speakers: Cynthia Dwork, David Runciman
  • Panel: “Should we prioritize research on human-like AI or something different?”

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