



Ingegnerie della frontiera

Culture | Modelli | Strategie

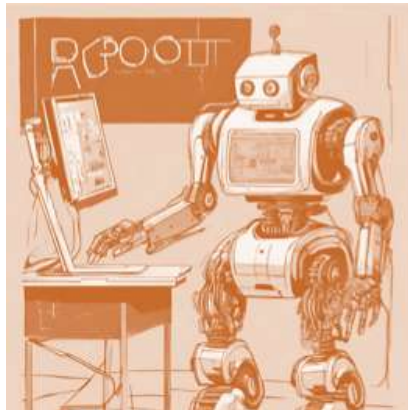
Cosimo Accoto

Tech Philosopher | Research Affiliate & Fellow (MIT) |
Adjunct Professor (UNIMORE) | Startup Advisor & Instructor

From science to engineering

- geo-engineering
- nano-engineering
- crypto-engineering
- bio-engineering
- space-engineering
- neuro-engineering
- quantum-engineering
- ai-engineering
- ...

Artificial Intelligence



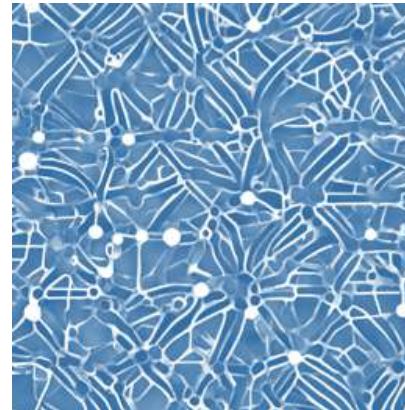
- texts, images, agents (GPTs)
- augmented/virtual/neuro realities
- robotics: industrial to social
- **Planetary Intelligence?**

Cryptosystems Blockchains



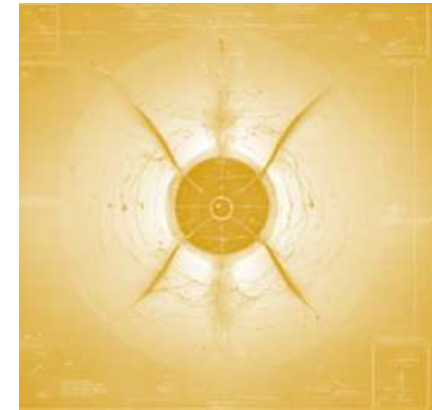
- data interoperability
- asset tokenizations
 - dao/web3/
- **Turing Institutions?**

Bio-Nano Technology



- biodesign platform
- materials intelligence
- nanoscale med/bio hack
- **Exoplanetary Life?**

Quantum Computing



- quantum sensing
- quantum networking
- post-quantum cryptography
- **Quantum Internet?**

Chimerical Frontiers of Innovation

- Quantum Computing + Artificial Intelligence (Quantum AI)
- Swarm Robotics + Blockchains (Distributed Autonomous Machines)
- Blockchains + Quantum Networking (Quantum Internet)
- Material Intelligence + AI Simulations (Smart Nano-Materials)
- Spatial Computing (Cloud, Fog, Edge) + AR/VR + BCI (XR Design)
- Cryptography + Quantum Computation (Post-Quantum Cybersecurity)
- ...

Swarm Robotics + Blockchains
(Distributed Autonomous Machines)

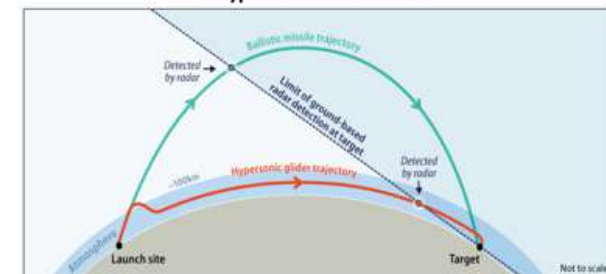


Hypersonic Weapons Race

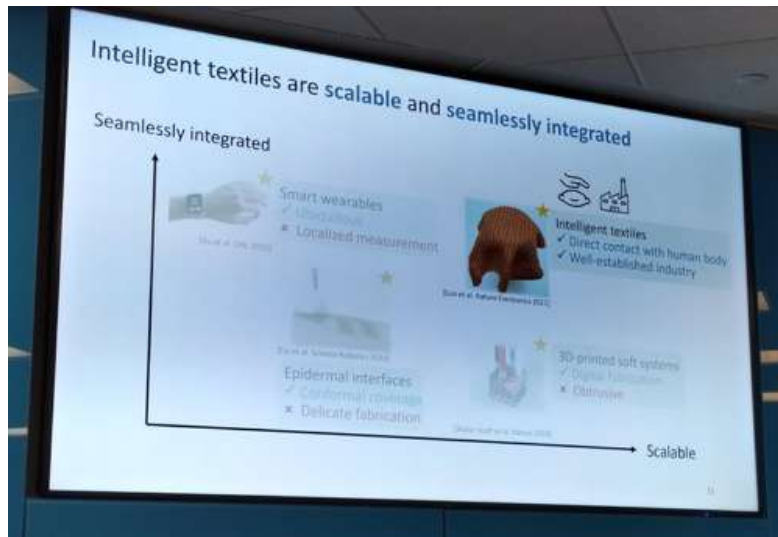


Hypersonic Weapons: Background and Issues for Congress

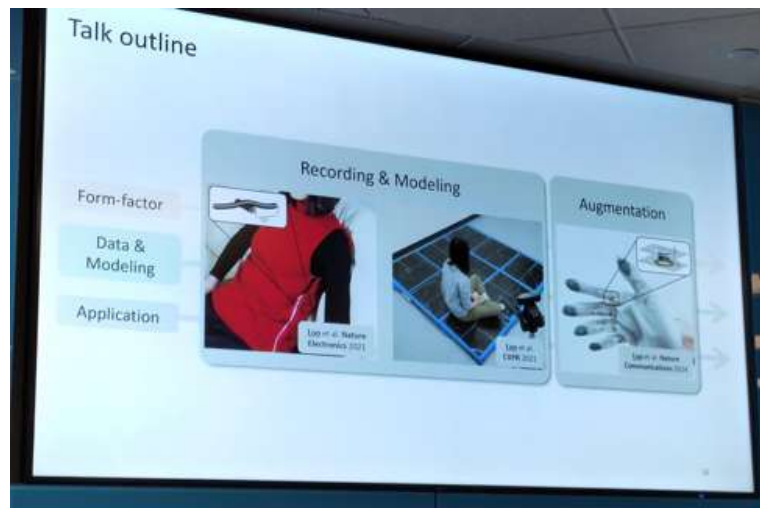
Figure 1. Terrestrial-Based Detection of Ballistic Missiles vs. Hypersonic Glide Vehicles



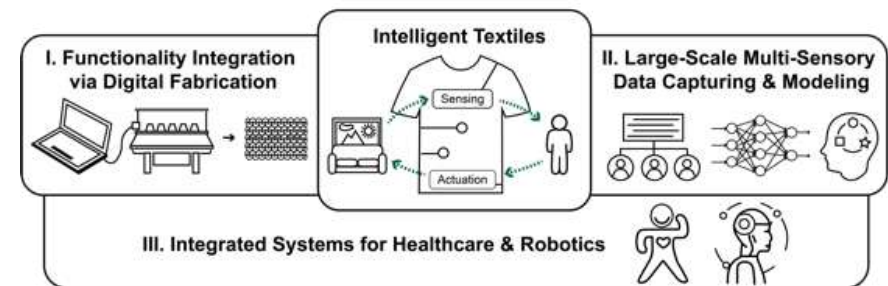
Source: CRS image based on an image in "Gliding missiles that fly faster than Mach 5 are coming," *The Economist*, April 6, 2019, <https://www.economist.com/science-and-technology/2019/04/06/gliding-missiles-that-fly-faster-than-mach-5-are-coming>.



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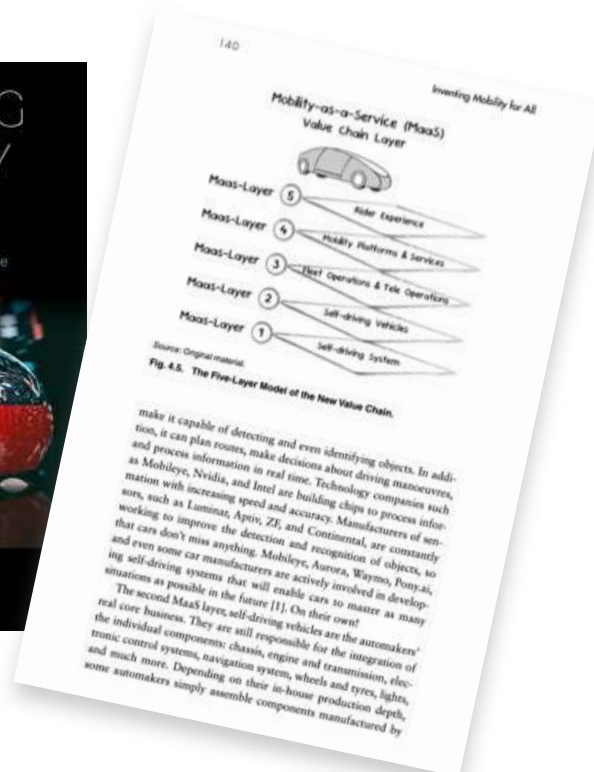
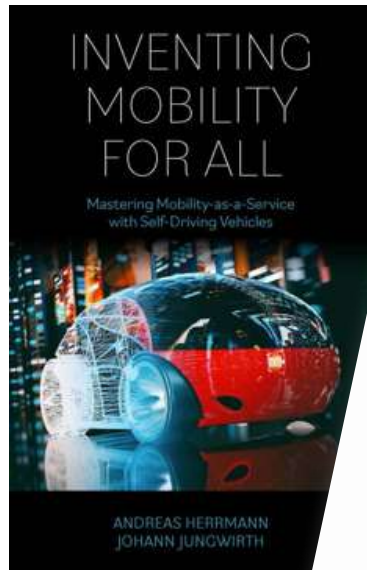


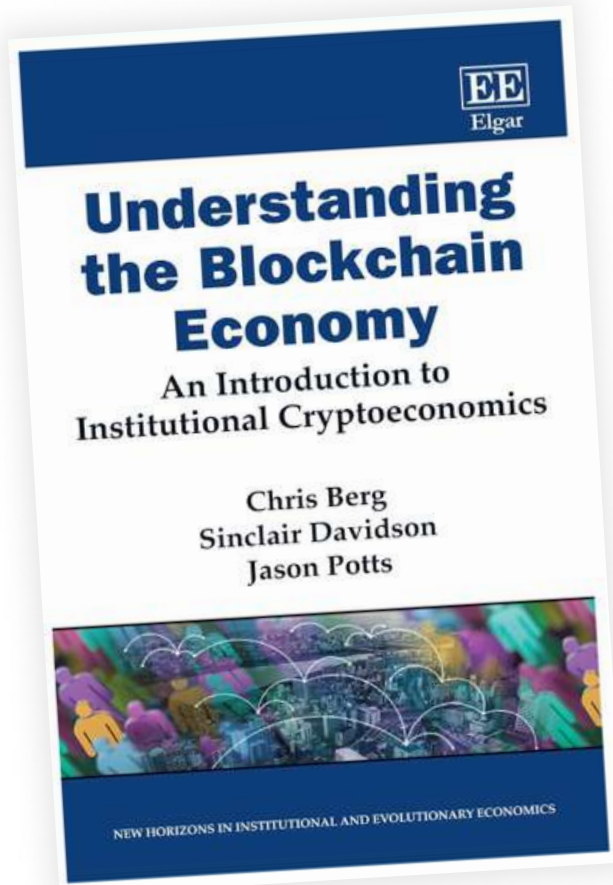
Toward a Wearable Intelligent Assistant: Recording, Modeling, and Augmentation of Physical Interactions



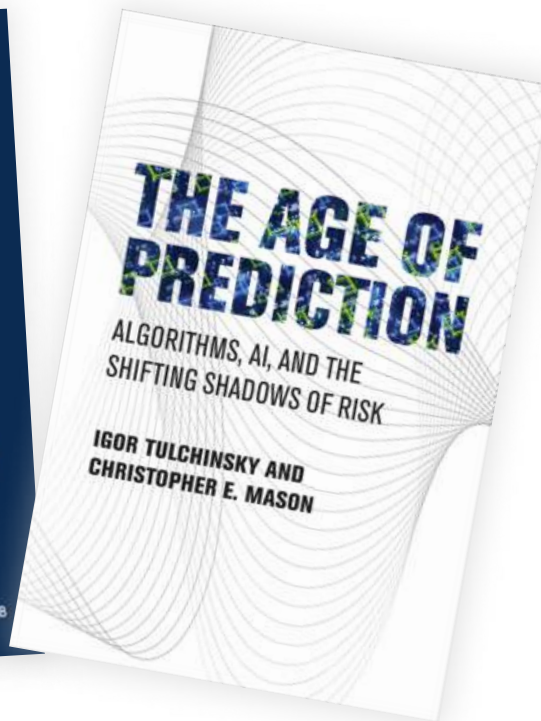
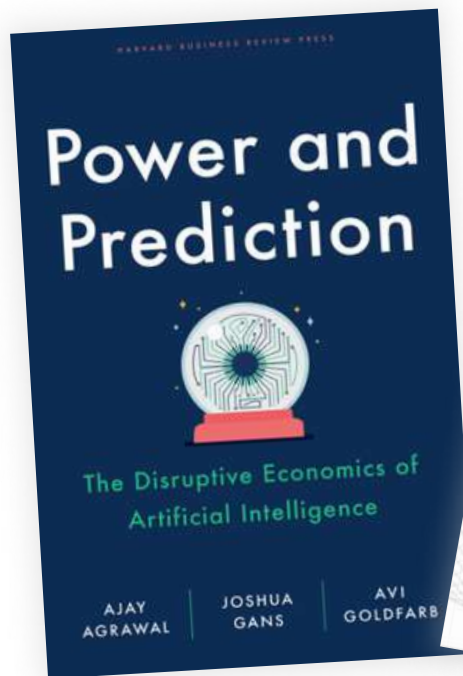
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Business Models, Competitive Strategies, New Cultures





Blockchain: an *institutional*
innovation (not just a
technological innovation)



AI: the production of
prediction is the
business of the future



mobilità
allertativa



medicina
predittiva



manutenzione
preventiva



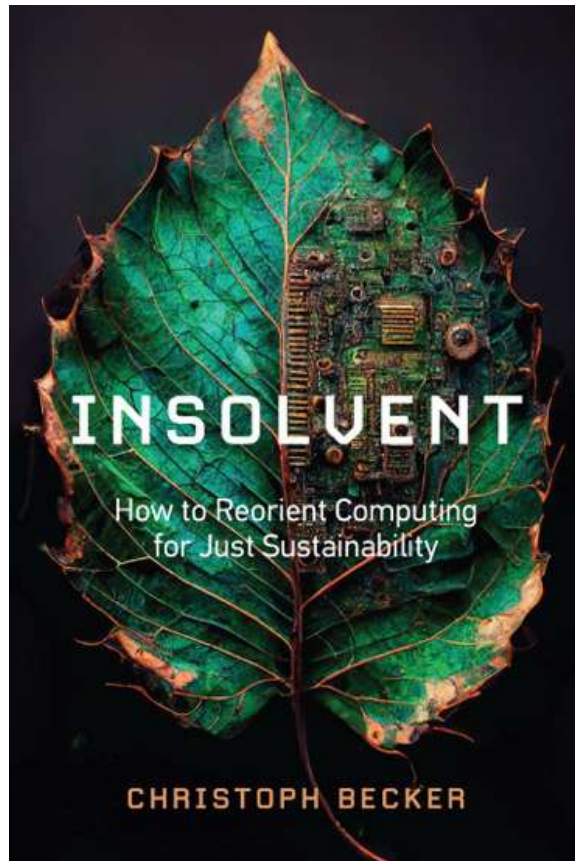
cybersicurezza
adescativa



scrittura
anticipativa



medialità
raccomandativa



Reorienting Computational Intelligence for Sustainable Planetaryity

Cosimo Accoto