

Your World First

**CMS**  
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# KASPAROV VS. COMPUTER

**Olexander Martinenko**

Senior Partner | CMS Cameron

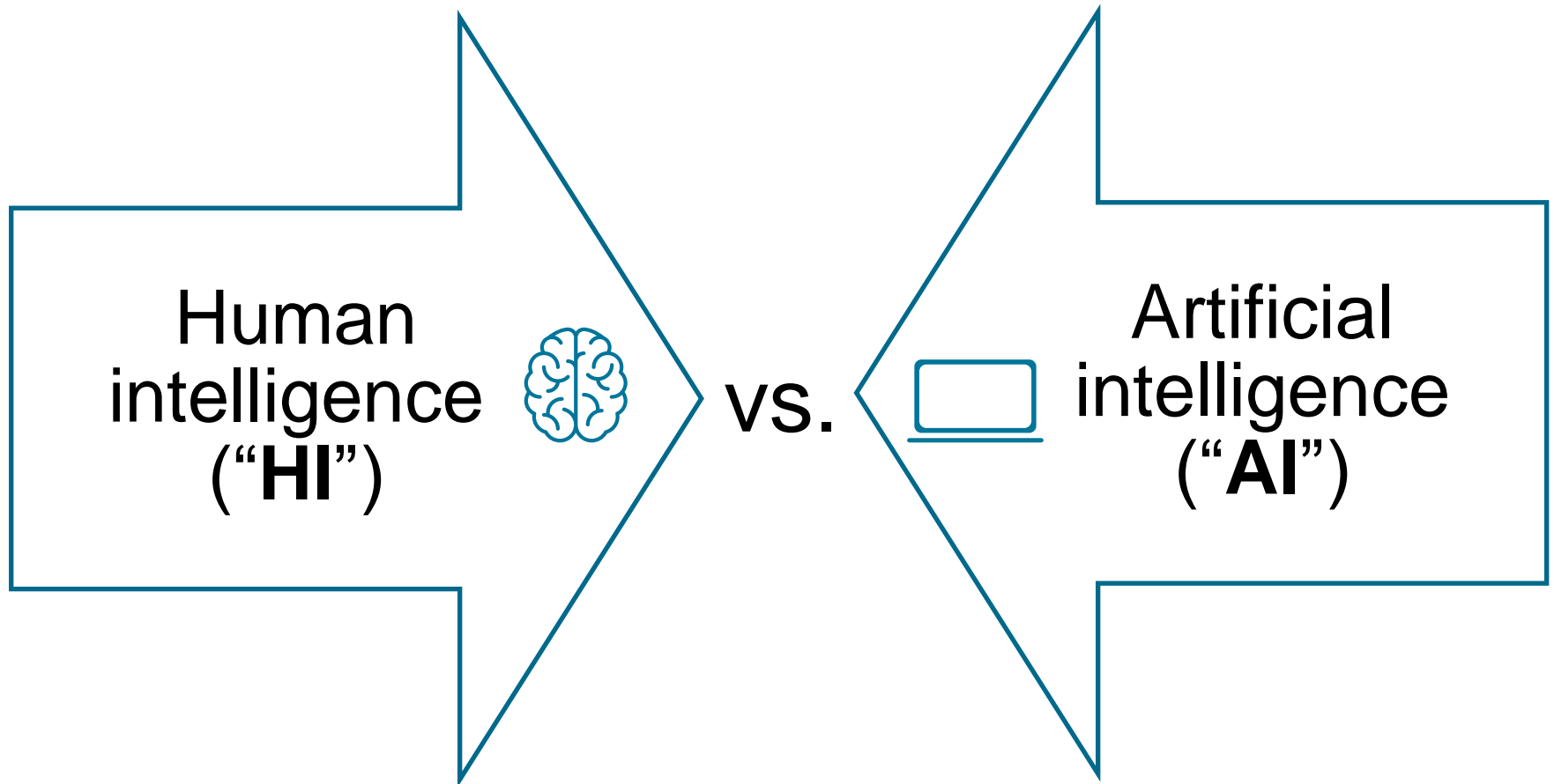
McKenna Nabarro Olswang (Ukraine)

KASPAROV VS. COMPUTER | September 2018

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# What It All Is About?

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# Background

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Legal practice -  
conservative  
traditions

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## IT Revolution

computers

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e-mails

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e-databases

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keywords search

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remote access

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smartphones/tablets

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natural language

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cloud technologies

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blockchain

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AI

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# AI

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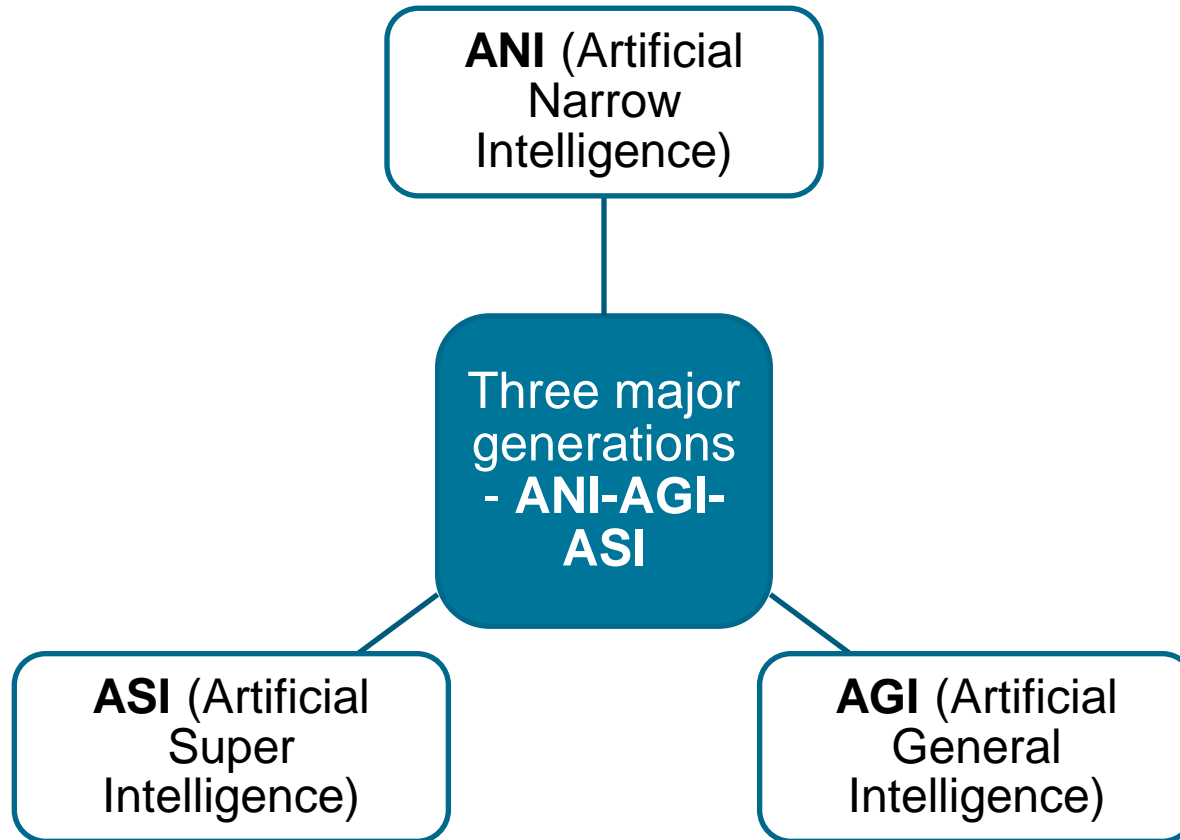
In layman words AI is ability of a machine to mimic HI

- to understand
- to communicate
- to learn
- to research
- to group/put in order
- to propose solutions
- to take decisions
- to issue commands/orders
- to control data/data flows etc.

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# AI Generations

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# ANI (two sub-generations)

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## Purely reactive - the basic one ("ANI-PR")

is ignorant of anything beyond its self

no memory of the prior actions/experience

takes actions on what it sees/is required to do

## Limited memory - an upgraded one ("ANI-LM")

operates with the general concepts of the world/environment

adds up memory of the past actions/experience

able to take proper decisions and to perform required actions

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# ANI-PR

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most computer games

most data  
collection/processing  
systems

most elements of complex  
AI systems (distance brake  
in car navigation systems)

actually - most of the AI  
products on the market

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# ANI-LM

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Siri, Cortana, Alexa  
& analogues

specialized  
computers/programs (1997, IBM's  
Deep Blue vs.  
Kasparov)

chatbots

self-propelling/self-  
driving vehicles

extra-terrestrial  
man-made devices  
(Mars Curiosity)

on-line games

automated Internet  
services (booking,  
searching,  
teaching etc.)

firewalls, spam  
filters, anti-virus  
programs

ad-analyzers



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# AGI

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AGI (aka a **Theory of Mind Machine**) is a carbon copy of the human matrix:

- knowledge
- emotions
- intentions
- thoughts
- capable of building up social ties and building itself up into the social tissue
- capable of predicting the reactions/thoughts/actions of others (both humans and AGIs)
- capable of abstract thinking

**Dream on!!! NOT YET AROUND!!!**

**TIP: DECEIPT + HUMOR + CRIME => AGI**

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# ASI

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ASI (aka a **Self-Awareness Machine**) shall surpass the human matrix in every single aspect even if only marginally

- fully self-conscious
- able to position itself within the outside world
- perhaps able to operate with additional senses (more than the four ones reserved for humans)
- able independently to do full-scale analytical work including
  - *formulating the tasks*
  - *identifying the methods*
  - *finding solutions*
  - *implementing them*

NOT YET THERE!

DANGER? DANGER!! DANGER?!!!

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# Our Discussion

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## Limited to ANI only

## Turing Test (1950)

- Alan Turing (1912-1954), English computer scientist, the AI father
- Test - minimalistic threshold:
  - three participants - (i) evaluator (“**E**”), (ii) human (“**H**”) and (iii) machine (“**M**”)
  - three-way communication
  - M to generate human-like responses/comments
  - equal time lags for both H and M
  - E to identify if he/she communicates with H or M
- ELIZA and PARRY the first ones to pass the test (1966 and 1972)
- Necessary but insufficient

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# Test Case Background

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- A forward contract (“**FC**”) between a crop producer (“**P**”) and a buyer (“**B**”)
- Two of them are located on the opposite banks of a river
- A flood destroyed the only closest bridge connecting the two of them by the time of the crop delivery
- P is in default under his contractual obligations under FC
- Arbitration clause & force-majeure one

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# Test Case Issues

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## Arbitrator to take a decision

Is B entitled to damages?

Is the force-majeure clause triggered?

Was P able/unable to perform his contractual obligations?

Is P spared from liability?

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# Test Case Variation 1

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- Two FCs between P and each of two Bs
- Both Bs are located on the opposite bank of a river from P
- A flood destroyed the only bridge connecting P and the Bs by the time of the crop delivery
- P is in default under his contractual obligations under each of the FCs
- Both FCs contain an arbitration clause & force-majeure one
- Yet one FC provides for P's '*all reasonable efforts*' obligation to meet his/her obligations under the FC; the other one is silent on that matter
- Same issues

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## Test Case Variation 2

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- Two FCs between P and two Bs
- Both Bs are located on the opposite bank of a river from P
- A flood destroyed the only bridge connecting P and Bs by the time of the crop delivery
- P is in default under his contractual obligations under each of the FCs
- Both FCs contain an arbitration clause & force-majeure one
- Yet one FC provides for P's '*all reasonable efforts*' obligation to meet his/her obligations under the FC; the other one provides for P's '*best efforts*' to meet his/her obligations under the FC
- Same issues

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## Further Variations

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(a) => there is another bridge 100 miles up the river and yet another one 180 miles down the river

(b) => (a) + part of the road to the North also destroyed by the same flood

(c) => the closest bridge 500 miles both ways; yet there are five cargo ferries 20 miles apart from each other

(d) => on the due date P had a relative terminally ill in the household

(e) => (d) + P's housewife

(f) => (e) + P's housewife sick with a fever

(g) => (f) + live-in professional paramedic looking after the sick relative

etc.



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# Law Profession

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- pilotage in the sea of law
- details, nuances and shadows
- correlations & interpretations
- right vs. wrong
- cognitive functions & empathy
- everything but quantification
- professional & sentient

QUALIA (phil.)

side effect - *“To err is human!”*

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# Conclusions

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## ANI

- part of the digital world
- quantification algorithms
- some cognitive features
- no sensations
- no empathy
- no sentience
- **no QUALIA**

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## Conclusions Cont'd

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# AGI & ASI

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graph TD; A[AGI & ASI] --> B[two philosophical extremes]; B --> C["if (a), then both AGI & ASI are impossible"]; C --> D["if (b), then the same result"]; D --> E["AGI is scientific fiction while ASI is fantasy"]; E --> F["I go for a nap; please wake me up when you see one around"];
```

two philosophical extremes

(a) Man  $\neq$  God

(b) Man = God

if (a), then both AGI & ASI are impossible

if (b), then the same result

AGI is scientific fiction while ASI is fantasy

I go for a nap; please wake me up when you see one around

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## Conclusions Cont'd

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### Collision of two worlds

Legal profession/arbitration is from the analogue world

AI is from the digital one

In professing of law analogue world rules, digital world serves

Forever and ever AI will remain a useful but always auxiliary tool for law professionals (including arbitrators)

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# AMEN!

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## **Olexander Martinenko Senior Partner**

**T** +38044 391 3377

**E** [olexander.martinenko@](mailto:olexander.martinenko@cms-cmno.com)  
[cms-cmno.com](http://cms-cmno.com)



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