## Is Artificial Intelligence Intelligent like Human?

Akira Imada

Brest State Technical University (Belarus)

### **Introduction 1**



A legendary chess automaton in 18th century created by Wolfgang von Kempelen. He claimed it plays chess like human to impress Maria Theresa (1770).

The secret had been perfectly kept for more than 100 years.

## Introduction 2



1996:	Deep Blue	Kasparov	even	even	Kasparov	Kasparov
1997:	Kasparov	Deep-Blue	even	even	even	Deep Blue

### **Introduction 3**



Watson challenged 'Jeopardy - America's Favorite Quiz Show on TV (2011) "Who is the 19th-century painter whose name means police officer?"

The final tally: Human so far champion \$24,000 while Watson \$77.147

### **Development 1**



Turing Test: tests the ability to fool ordinary people, not foolish people, about whether the dialogue via teletype is with a human or with a computer.

#### **Development 2**

Legg & Hutter's definition From informal "An agent's ability to achieve goals in a wide range of environments."

> $\downarrow$ to formal  $\gamma(\pi) = \sum_{\mu \in E} 2^{-K(\mu)} \cdot V_{\mu}^{\pi}$

(An example of introduction )

## Turn 1



Malkiel: A Random Walk Down Wall Street

"A monkey throwing darts at the WSJ to select a portfolio might be better than

the one carefully selected by experts."

#### Turn 2



Excellent but always slightly different (One of the reason I like this.) Should professional make always same performance?

# Turn 3



We human forget, don't we?

(An example of introduction )

### Conclusion

Maureen Dow(Pulitzer Prize-winning journalist)

"When I say about human levels, I'm talking about

emotional intelligence ability to tell a joke to be funny, romantic, sexy,...

