

November 15, 2018

Umelá inteligencia radí a riadi

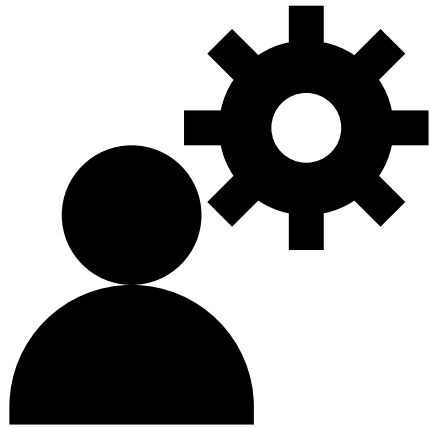
Michal Zuzula



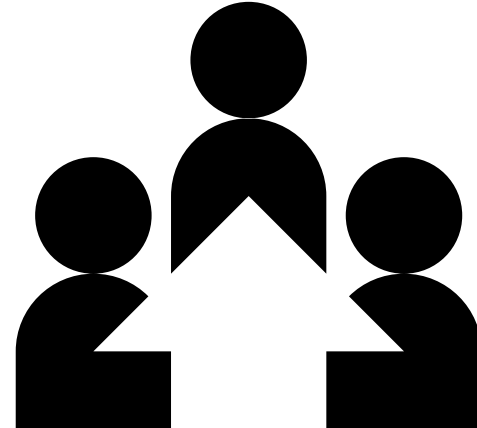




Umelá inteligencia



Pasívna



Tvorivá



Rozšírená



Category	Value 1	Value 2	Value 3	Value 4
Total & Other	1,100	1,100	1,100	1,100
Food & Drug Stores	1,100	1,100	1,100	1,100
Consumer Products	1,100	1,100	1,100	1,100
Travel & Leisure	1,100	1,100	1,100	1,100
Total Consumer Services	1,100	1,100	1,100	1,100
Food & Beverage	1,100	1,100	1,100	1,100
Food & Beverage Services	1,100	1,100	1,100	1,100
Food & Beverage Products	1,100	1,100	1,100	1,100
Total Food & Beverage	1,100	1,100	1,100	1,100
Electronics	1,100	1,100	1,100	1,100
Cellular & Telecommunications	1,100	1,100	1,100	1,100
Media, Entertainment & Communications	1,100	1,100	1,100	1,100
Total Electronics	1,100	1,100	1,100	1,100
Banking	1,100	1,100	1,100	1,100
Banking Services	1,100	1,100	1,100	1,100
Banking Products	1,100	1,100	1,100	1,100
Total Banking	1,100	1,100	1,100	1,100
Real Estate	1,100	1,100	1,100	1,100
Real Estate Services	1,100	1,100	1,100	1,100
Real Estate Products	1,100	1,100	1,100	1,100
Total Real Estate	1,100	1,100	1,100	1,100
Energy	1,100	1,100	1,100	1,100
Energy Services	1,100	1,100	1,100	1,100
Energy Products	1,100	1,100	1,100	1,100
Total Energy	1,100	1,100	1,100	1,100
Transportation	1,100	1,100	1,100	1,100
Transportation Services	1,100	1,100	1,100	1,100
Transportation Products	1,100	1,100	1,100	1,100
Total Transportation	1,100	1,100	1,100	1,100
Software & Computer Services	1,100	1,100	1,100	1,100
Software & Computer Products	1,100	1,100	1,100	1,100
Total Software & Computer	1,100	1,100	1,100	1,100
Telecommunications	1,100	1,100	1,100	1,100
Telecommunications Services	1,100	1,100	1,100	1,100
Telecommunications Products	1,100	1,100	1,100	1,100
Total Telecommunications	1,100	1,100	1,100	1,100
Total Revenue	1,100	1,100	1,100	1,100
Total Expenses	1,100	1,100	1,100	1,100
Total Income	1,100	1,100	1,100	1,100
Total Earnings	1,100	1,100	1,100	1,100

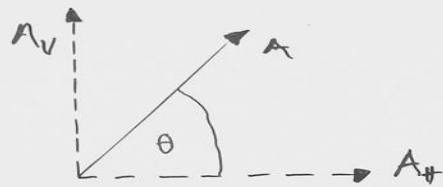


EQUATIONS

CORE TOPIC 1

$$A_H = A \cos \theta$$

$$A_V = A \sin \theta$$



physics and physical measurement

$$g = \frac{F}{m} = G \frac{M}{r^2}$$

$$F = G \frac{m_1 m_2}{r^2}$$

$$E_p = -G \frac{m_1 m_2}{r}$$

$$V = -G \frac{M}{r}$$

$$1 \text{ light year (ly)} = 9.46 \times 10^{15} \text{ m}$$

$$1 \text{ parsec (pc)} = 3.26 \text{ ly}$$

$$1 \text{ astronomical unit (AU)} = 1.50 \times 10^{11} \text{ m}$$

Pasívna

Option H - OPTICS

$$E = mc^2$$

$$p = \gamma m_0 v$$

$$E^2 = p^2 c^2 + m_0^2 c^4$$

$$\frac{\Delta F}{F} = \frac{g \Delta h}{c^2}$$

$$R = \frac{2GM}{c^2}$$

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$n = \frac{1}{\sin \theta_c}$$

$$\frac{1}{f} = \frac{1}{u} + \frac{1}{v}$$

$$m = \frac{h \nu}{c}$$

$$M = \frac{\theta_1}{\theta_0}$$

Additional Higher Level Topic 7 Measurement and uncertainties

If $y = a \pm b$
then $\Delta y = \Delta a + \Delta b$

If $y = \frac{ab}{c}$
then $\frac{\Delta y}{y} = \frac{\Delta a}{a} + \frac{\Delta b}{b} + \frac{\Delta c}{c}$

$$\frac{T^2}{R^3} = \text{constant}$$

$$F = G \frac{m_1 m_2}{r^2}$$

option B - Quantum Physics and nuclear physics

$$E = hf$$

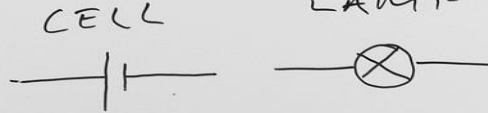
$$hf = \phi + E_{k \max}$$

$$hf = h f_0 + eV_s$$

$$p = \frac{h}{\lambda}$$

$$N = N_0 e^{-\lambda t}$$

$$T_{1/2} = \frac{\ln 2}{\lambda}$$

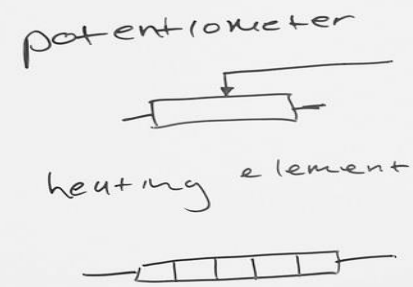
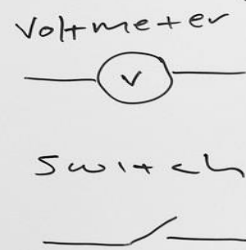


Option D - Biomedical Physics

resistor $\beta = 10 \log \frac{I}{I_0}$ where I_0 is the reference intensity

$$I = I_0 e^{-\mu x}$$

$$x_{1/2} = \frac{\ln 2}{\mu}$$



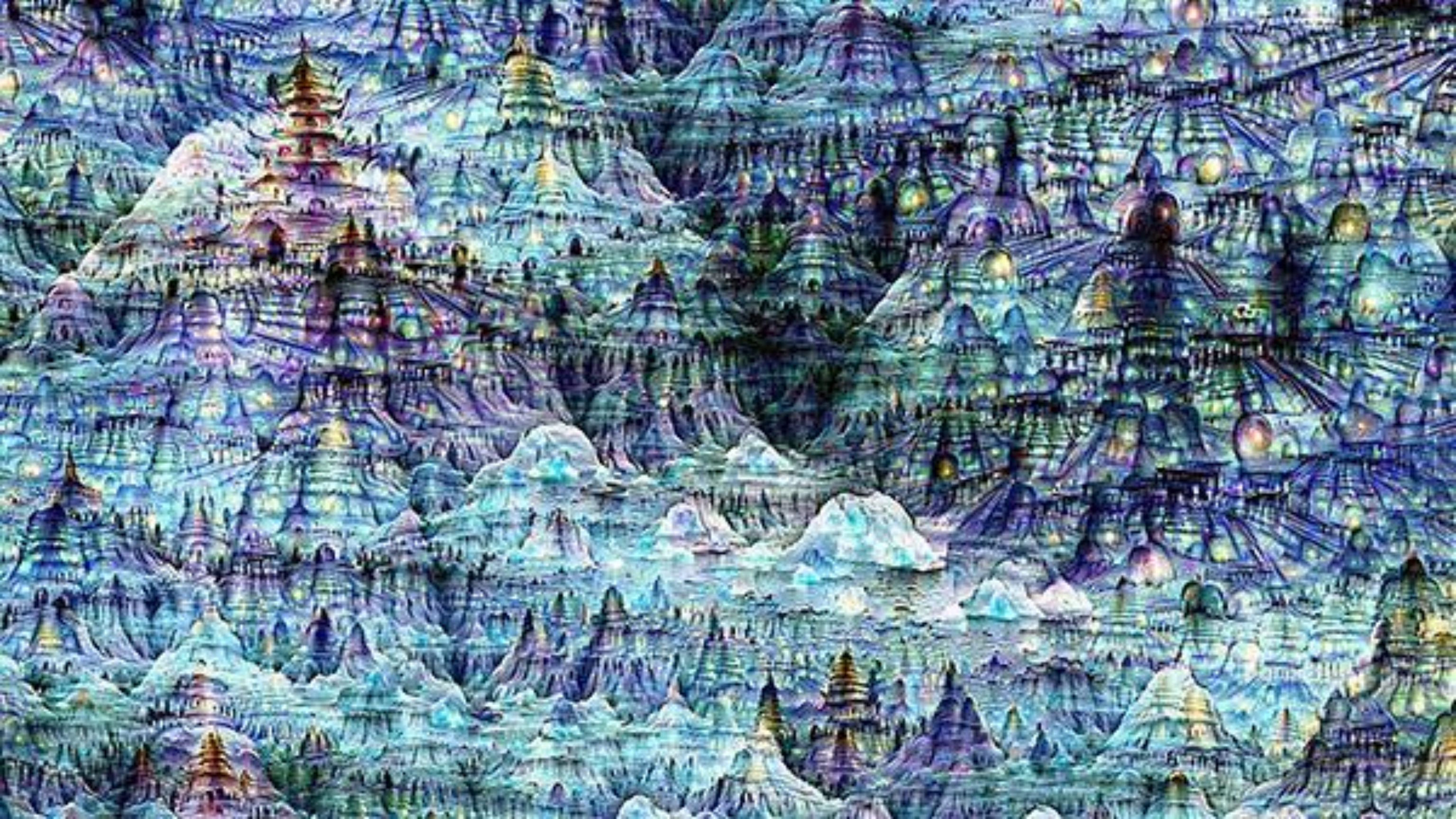
Topic 2

S: dis
T: +

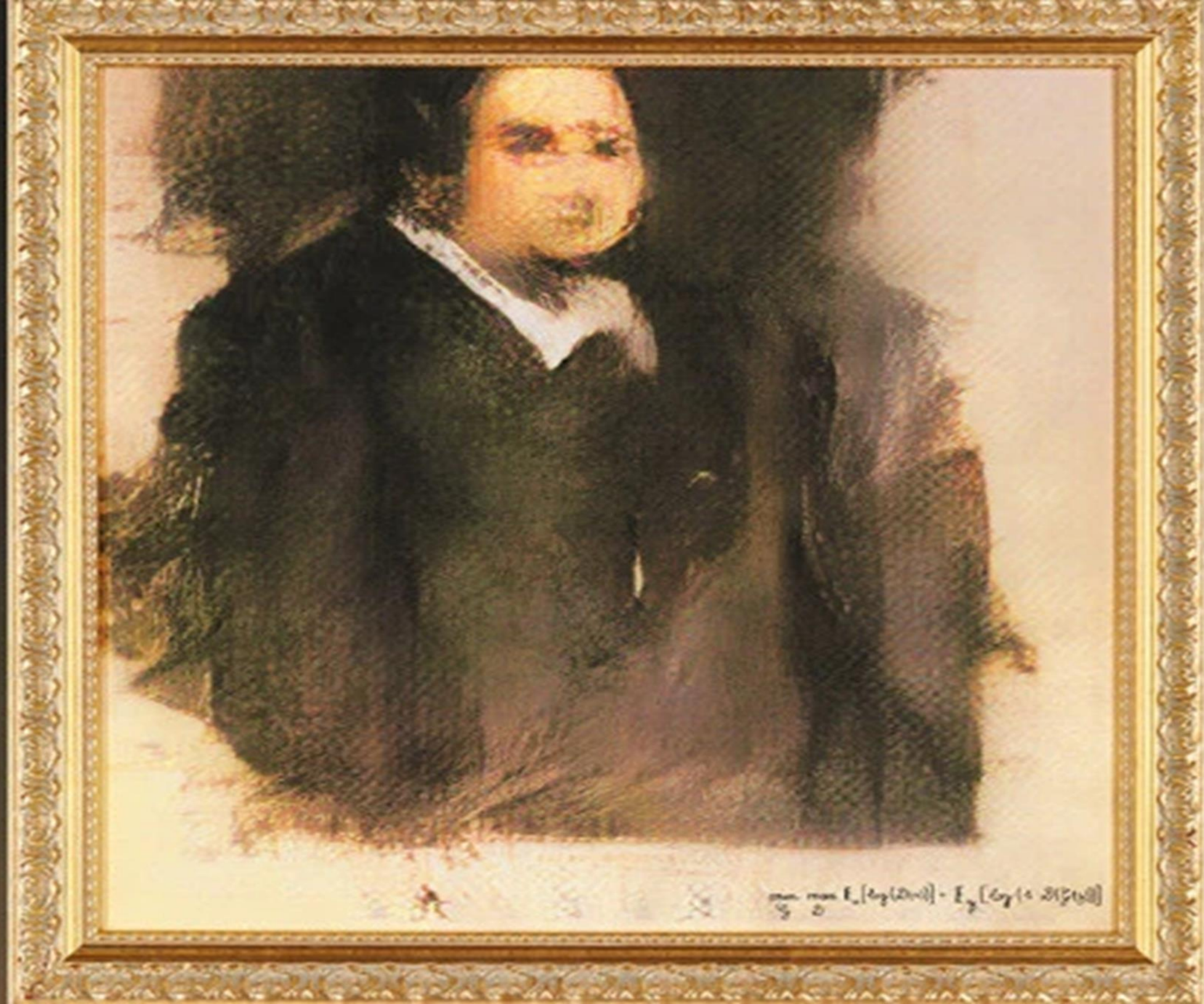












man man E. [copy 12/11] - E. [copy 12 21/11]

A close-up photograph of a person's hand holding a black, textured leash. The leash has the word "ROGUE" printed on it in white. The person is wearing blue jeans. To the right, a dog with white fur and brown patches, including its face and ears, is looking up and to the left with its mouth open, appearing happy. The dog has striking blue eyes and is wearing a blue and green patterned collar with a blue tag. The background is a blurred green lawn and a fence, suggesting an outdoor setting.

Tvorivá

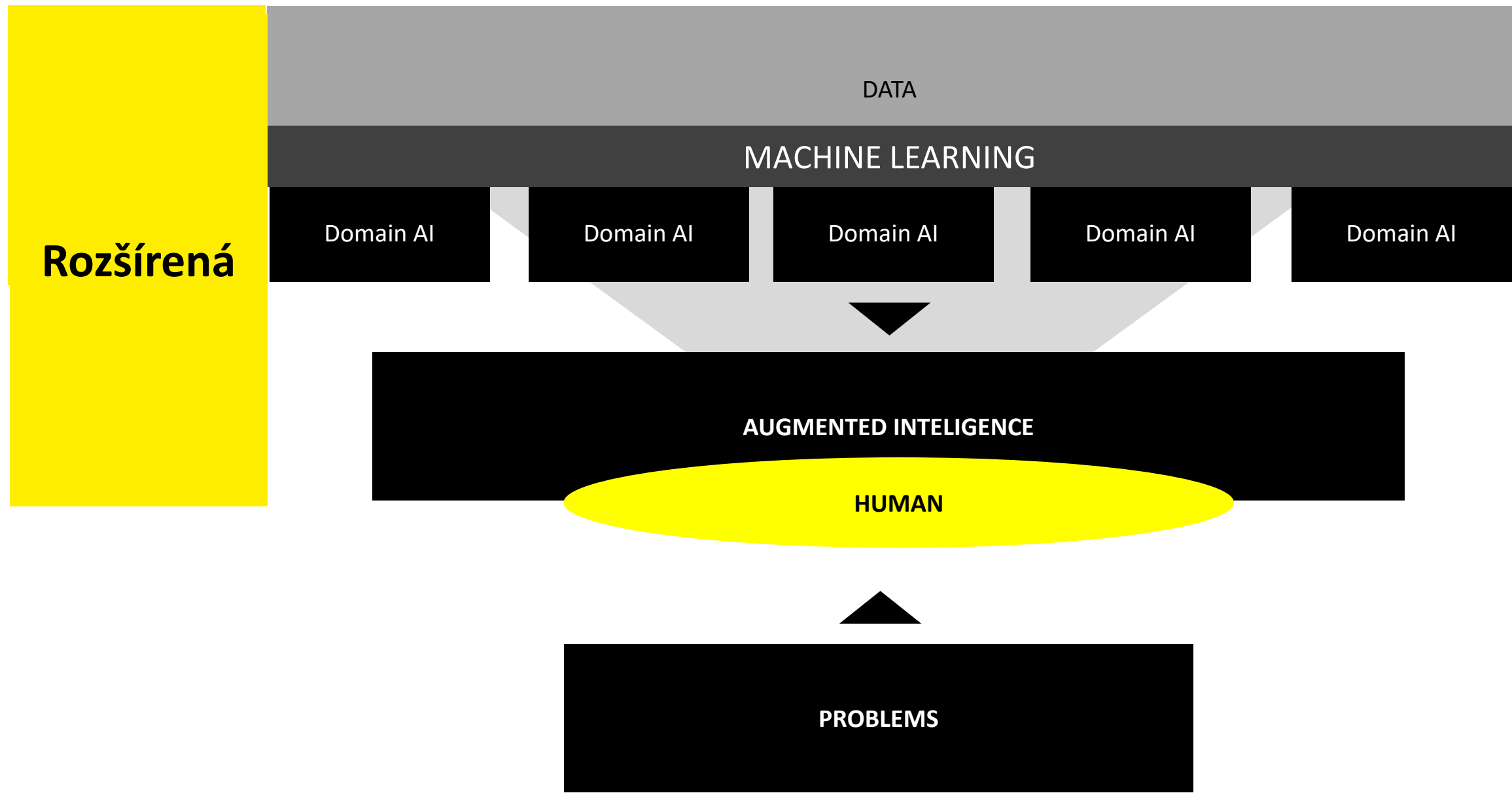




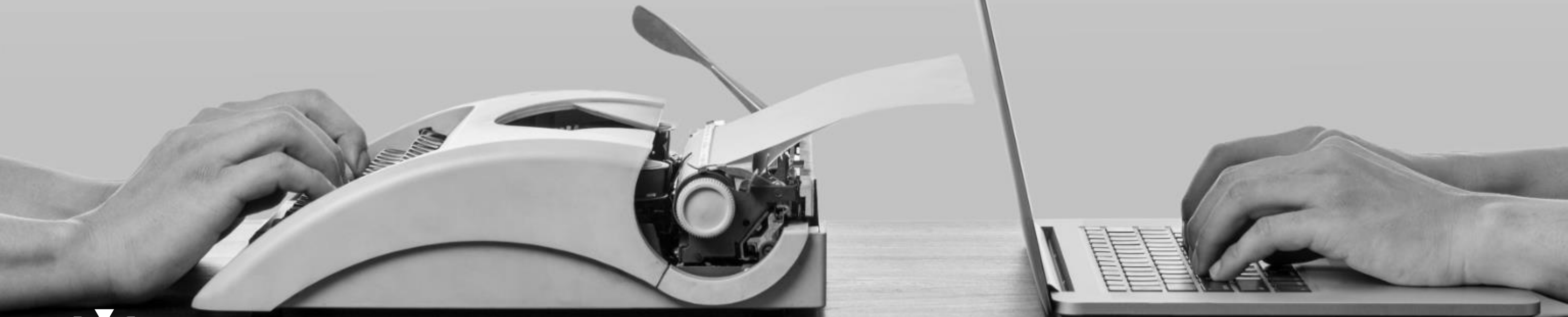
Rozšířená

AI a DXC

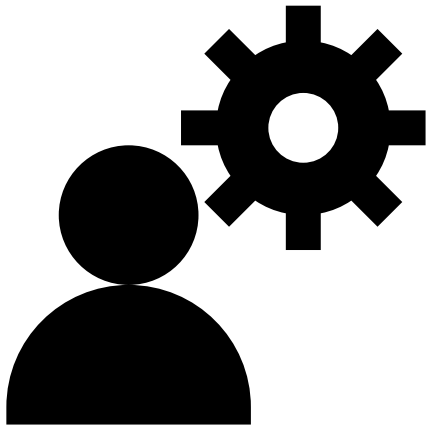




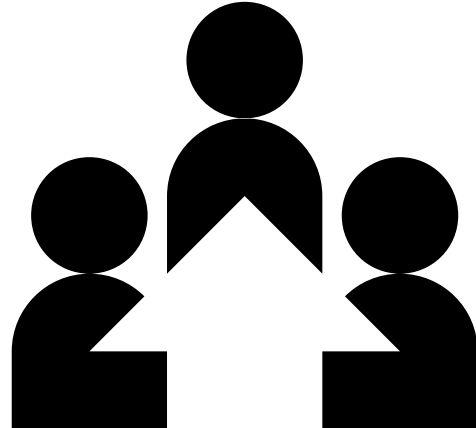
Koncepty dneška



Výzvy



Nájsť správne
odpovede

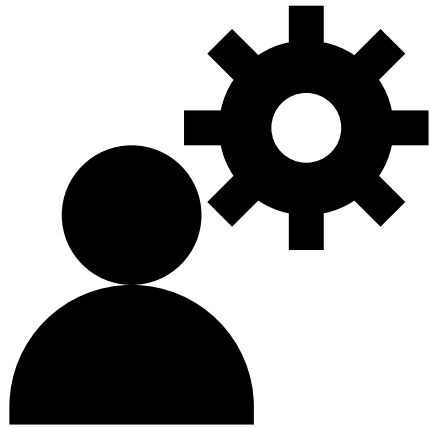


Riadiť komplexné
datacentrá



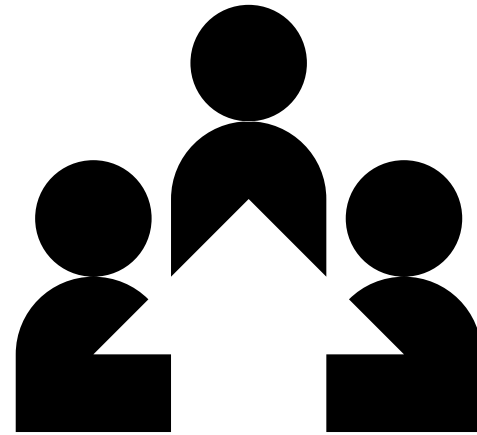
Správne sa
rozhodnúť

Pomáhame



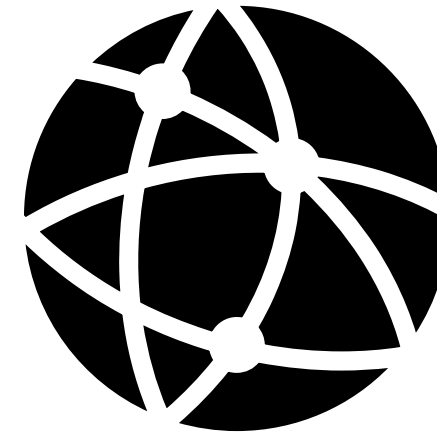
Chat boty

Hladať správne
odpovede



Platform DXC

Riadiť autonómne
komplexné
datacentrá



Analytika

Hladať podvody a
riziká

November 15, 2018

Radí a riadi ?



Ďakujem za pozornosť

