

L'AI al tempo del social

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Fellowship

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Foundation



http://www.fsfe.org/

Who am I ?

- Classe 1967
- Laurea 1991
- OSMapper dal 2008
- Ricercatore CNR dal 1997
- Debian Developer dal 2000 →
- FOSS activist da sempre
- Presidente LugBARI 2002–2009
- Geek per nascita :-)

Outline

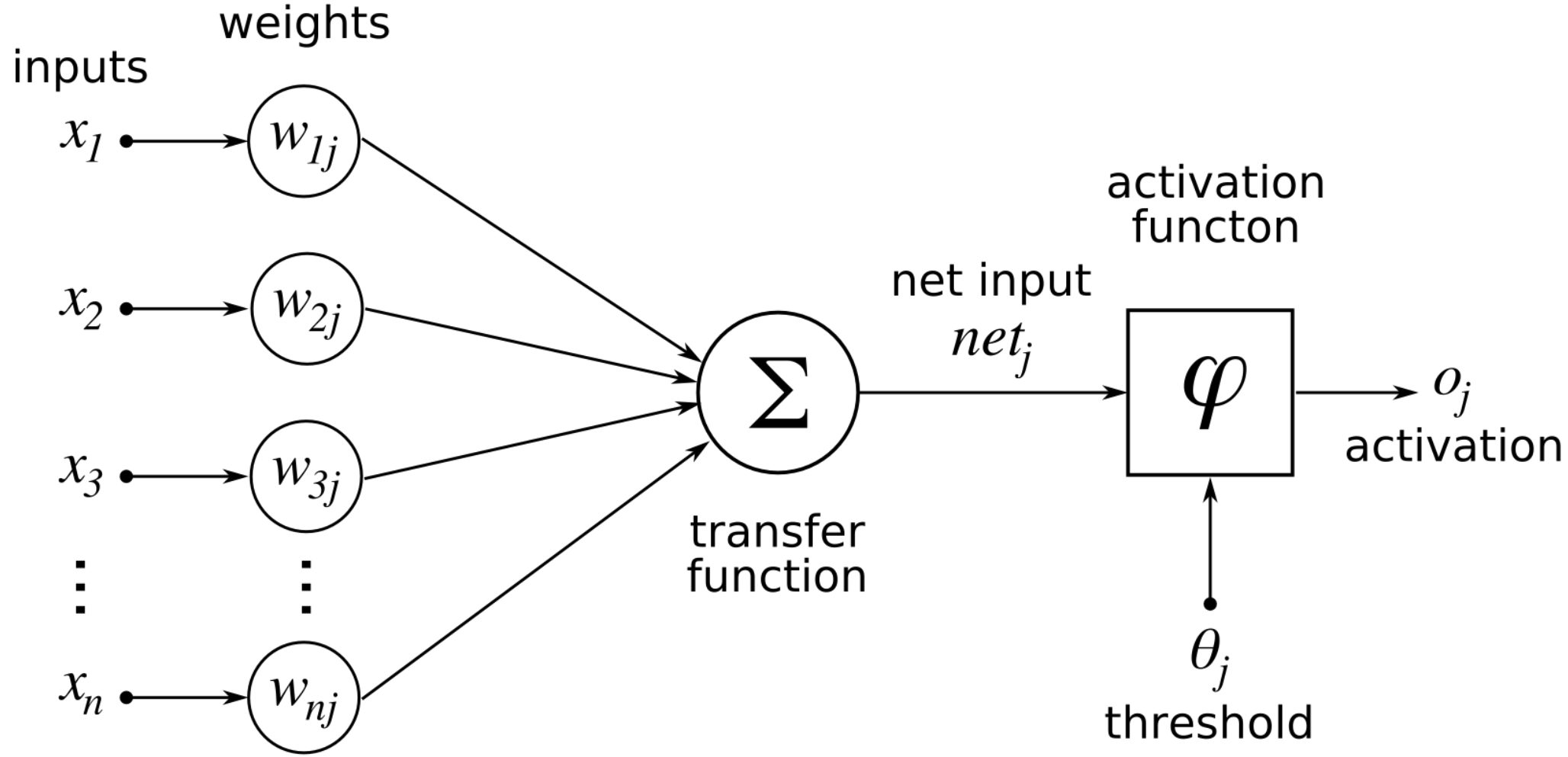
- AI che?
- Deep and *not-so-deep* learning
- Dove siamo e dove andremo probabilmente a finire?
- … e forse qualche deep thought in corso d’opera

AI Intro

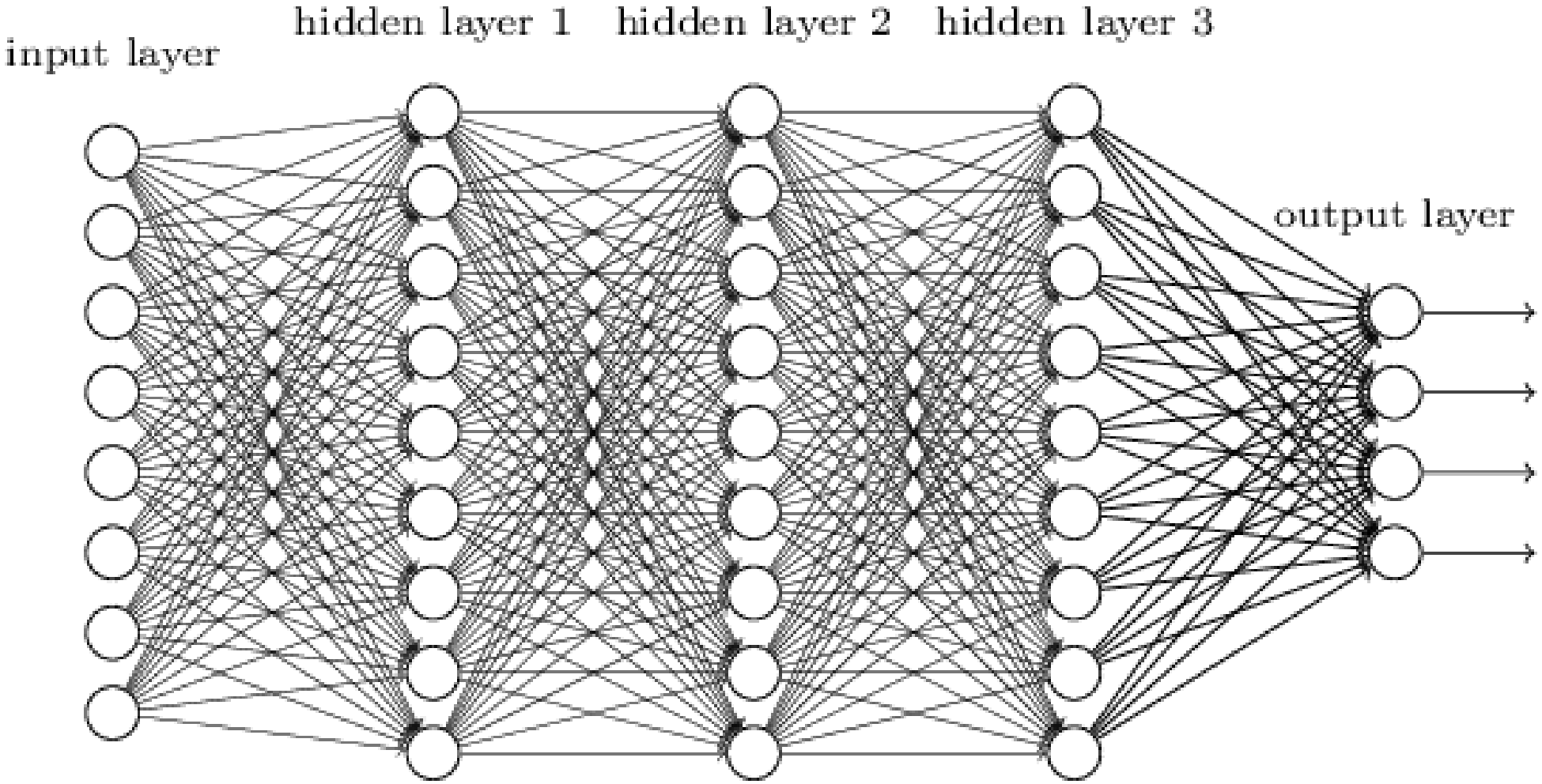
- Marvin Minsky, 1954
- Perceptrone di Rosenblatt, 1954
- Backpropagation, 1960
- Artificial Neural Networks, ‘90s
- Deep learning, 2009

Una buzz word che viene da (molto) lontano

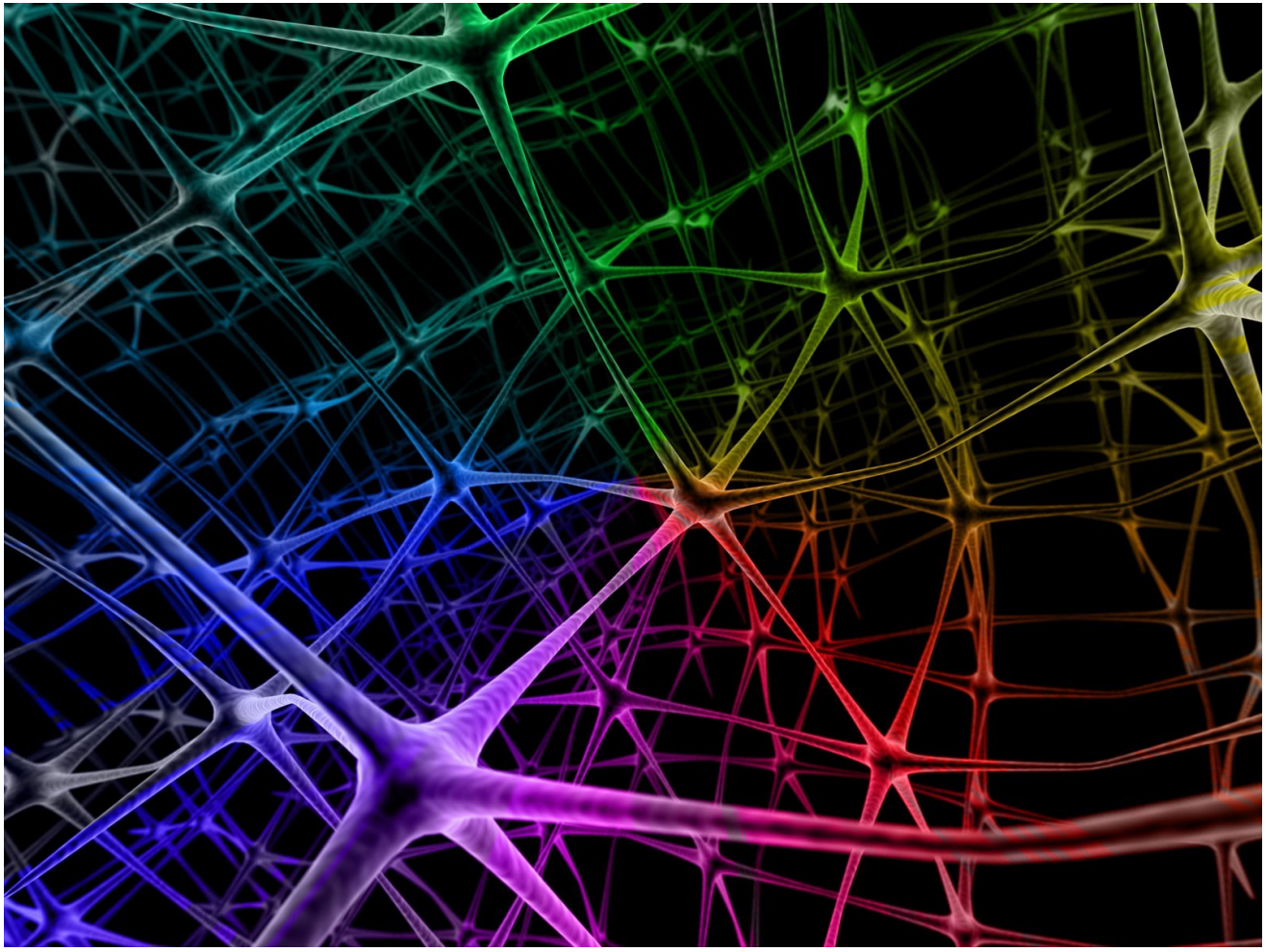
AI Intro


weights
inputs
x_1
x_2
x_3
x_n
w_{1j}
w_{2j}
w_{3j}
w_{nj}
Σ
transfer
function
net input
net_j
activation
functon
φ
o_j
activation
θ_j
threshold

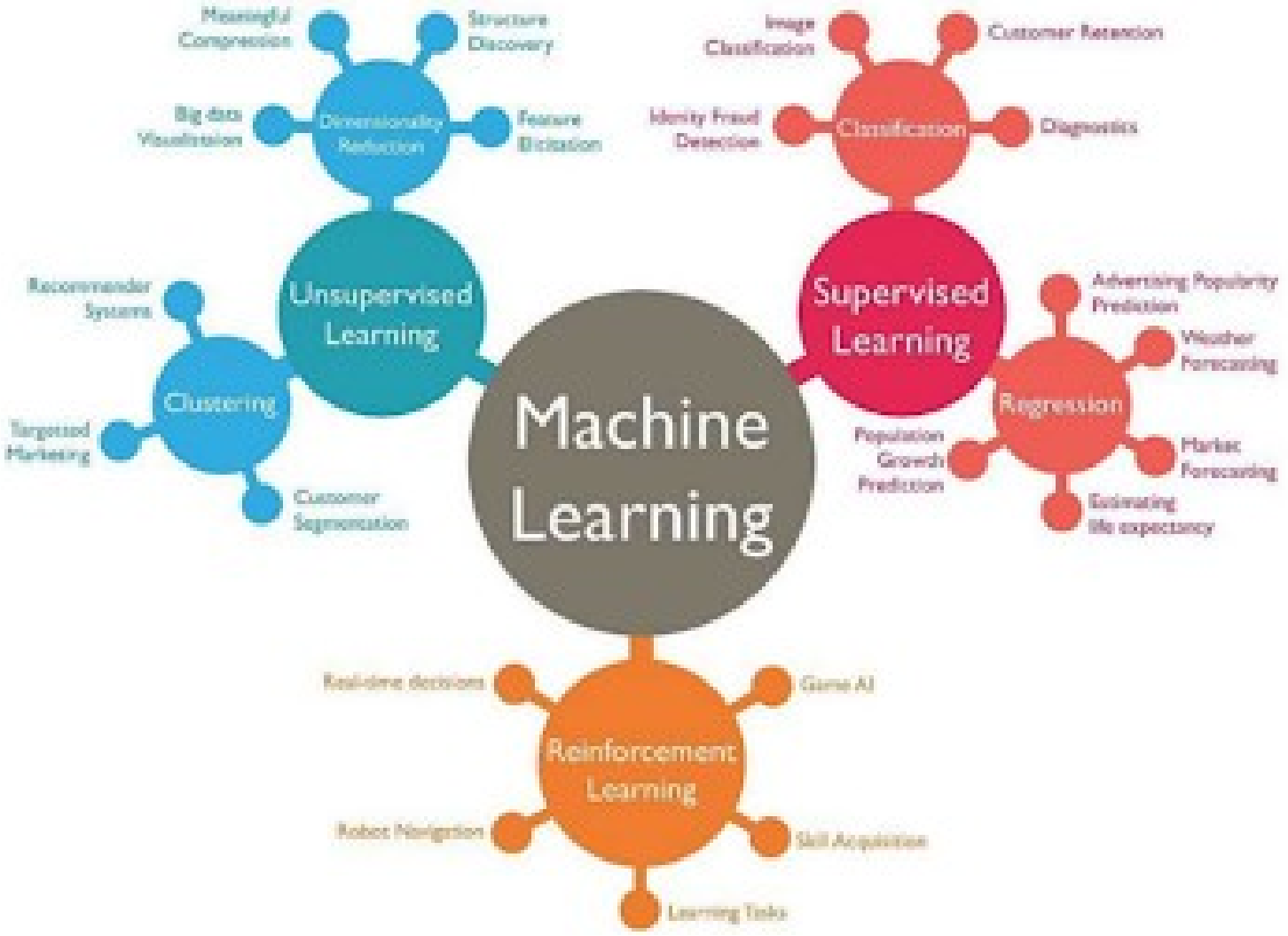
AI Intro


input layer
hidden layer 1
hidden layer 2
hidden layer 3
output layer

AI Intro



AI Intro


Machine Learning
Unsupervised Learning
Clustering
Recommender Systems
Targeted Marketing
Customer Segmentation
Dimensionality Reduction
Meaningful Compression
Structure Discovery
Big data Visualization
Feature Elicitation
Supervised Learning
Classification
Image Classification
Customer Retention
Identity Fraud Detection
Diagnostics
Regression
Advertising Popularity Prediction
Weather Forecasting
Population Growth Prediction
Market Forecasting
Estimating life expectancy
Reinforcement Learning
Real-time decisions
Game AI
Robot Navigation
Skill Acquisition
Learning Tasks

Aree applicative

- Computer vision ed image processing
- Linguaggio naturale
- Smart data processing
- Recommendation
- Automotive ed altre bestie semi addomesticate...

We live in a social world













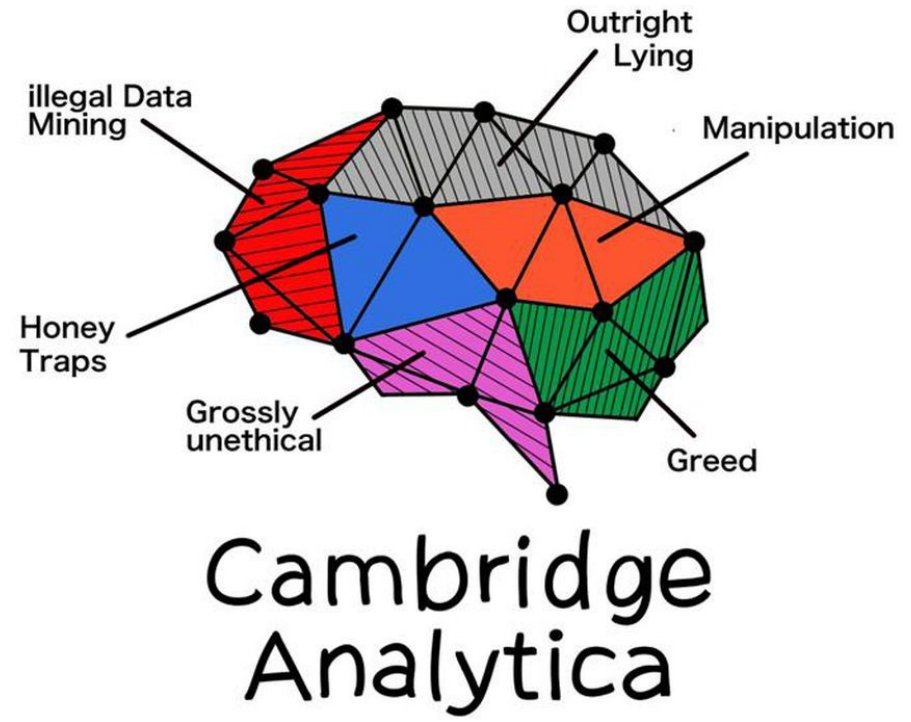
Problemi?



Soluzioni?



Giura!


Outright Lying
illegal Data Mining
Manipulation
Honey Traps
Grossly unethical
Greed
Cambridge Analytica
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E se i problemi fossero altri?

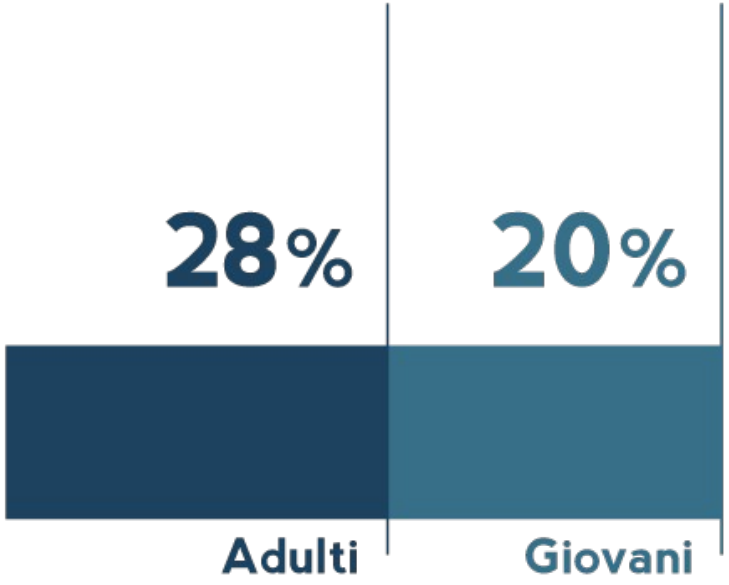




E se i problemi fossero altri?



I **numeri** dell'**analfabetismo funzionale** in Italia

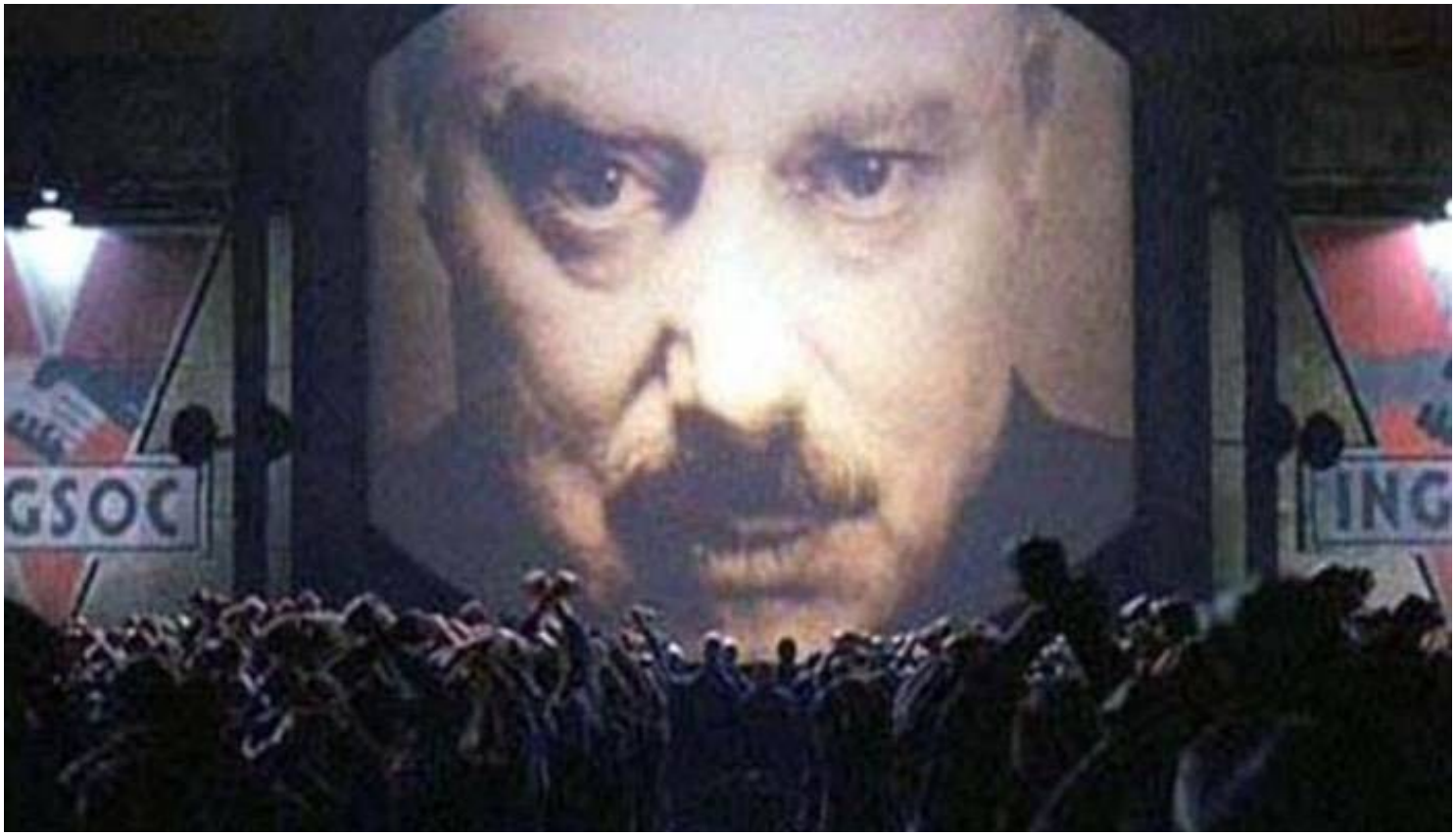


E se i problemi fossero altri?





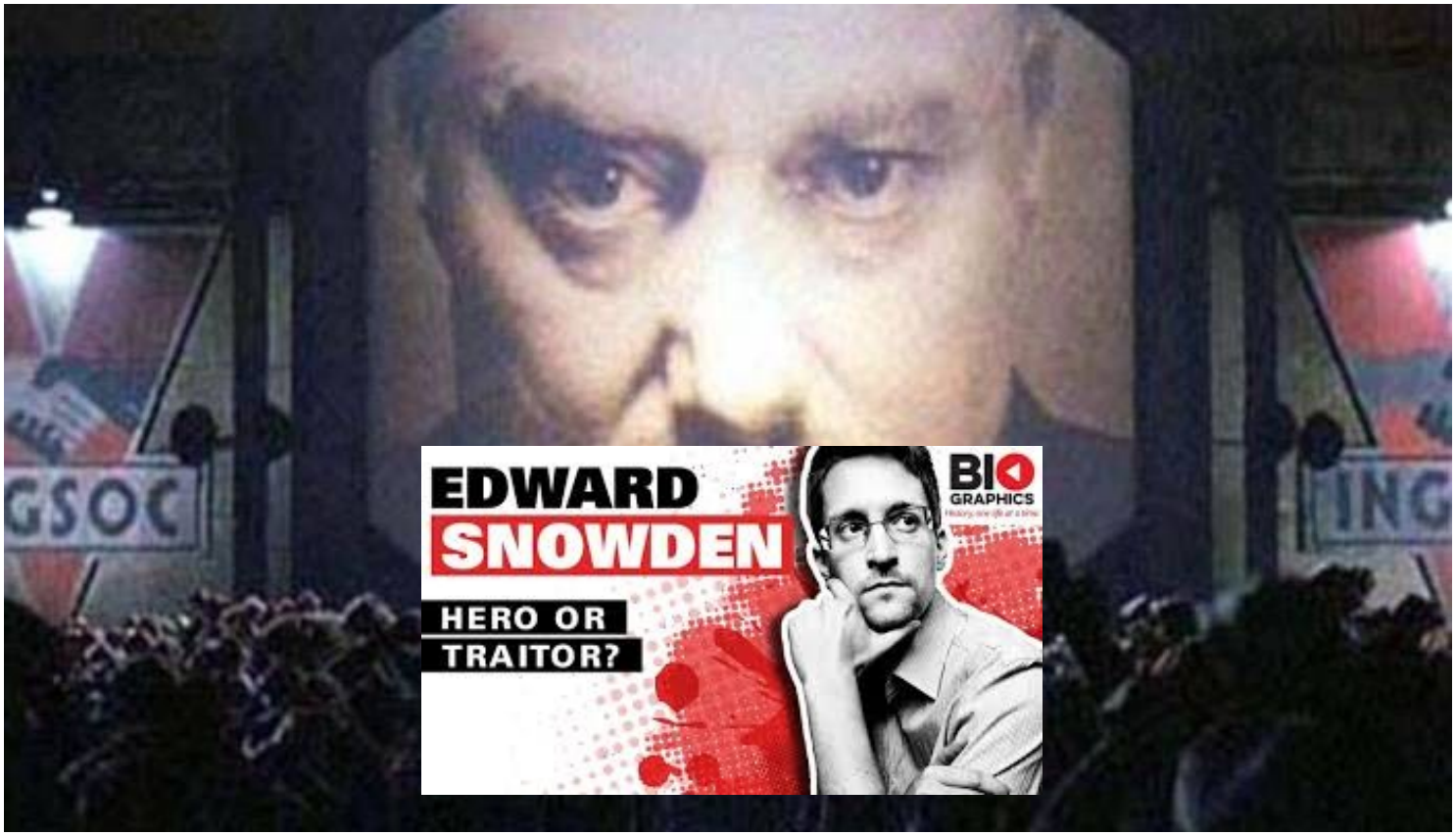
E se i problemi fossero altri?



E se i problemi fossero altri?



Futuro apocalittico o tragico presente?



Discussione

