

# Machine Learning for Big Data

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**Aalto University**

## Some Brainy Quotes on The Data Deluge

“We’re Drowning in Information and Starving for Knowledge.”  
- Rutherford D. Rogers.

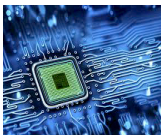
“There is Nothing More Practical Than a Good Theory.”  
- Kurt Lewin.

modern AI systems organize  
big data as networks

# Big Data over Networks

datasets and models often have intrinsic **network structure**

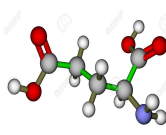
chip design



internet



bioinformatics



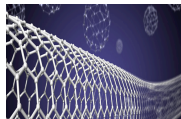
social networks



universe



material science



cf. L. Lovász, “Large Networks and Graph Limits”