



CS Control Software

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Core expertise in the field of **automation**, with a touch of **humanity** consisting of professional automation services and street light control systems.

We can offer our services on all levels from **supervisory support** to complete **turnkey installation** and **commissioning support**.



Algorithms & Analytics for Future Automation Systems

Lionel Reya

Algorithms and Analytics

- “Data is inherently dumb... Algorithms are where the real value lies. Algorithms define action.”

(Peter Sondergaard, SVP of Gartner research)

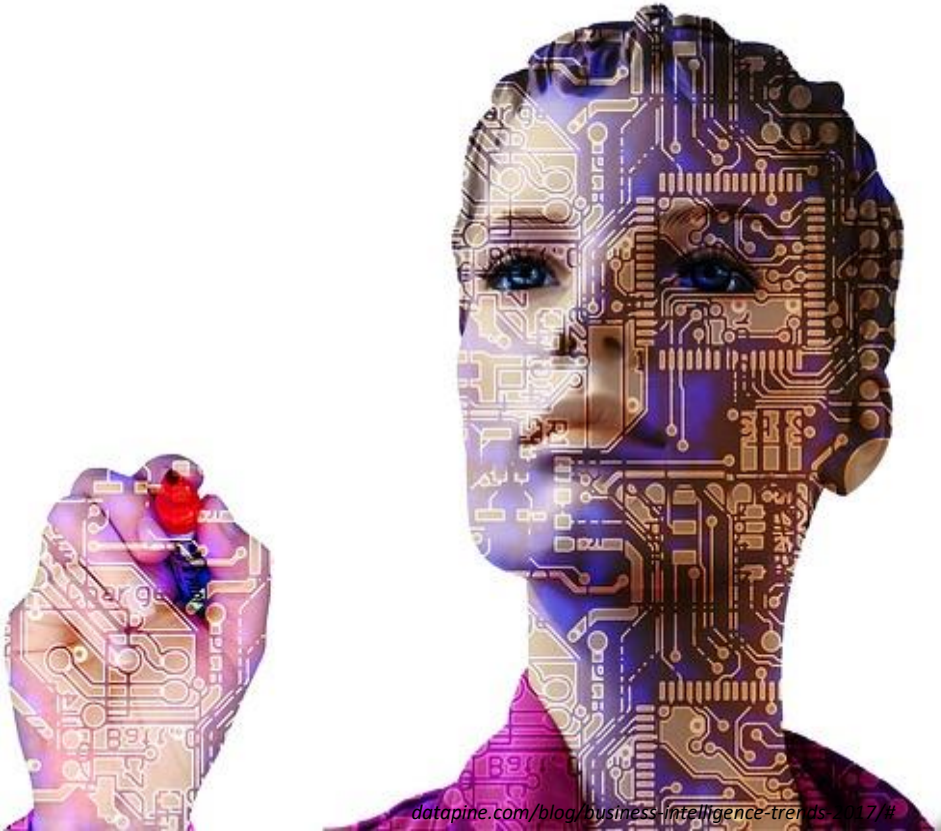
- Algorithms enable devices to make meaningful decisions.

Algorithms and Analytics



- Are algorithms good or bad?
- Ubiquitous use of available data and concerns for privacy.

Algorithms and Analytics



- What about the future?
- Analytics is the discovery, interpretation, and communication of meaningful patterns in data.



Applicable Solutions



- Power of algorithms in data science, machine learning and deep learning
- Predictive maintenance
 - detect, diagnose and be prepared in case of failure

"Anything that can go wrong, will go wrong."
- Murphy's law



Applicable Solutions



<http://danglingrelationships.com>

- Identify objects in images; Automatic language translation, medical diagnostics
 - *"How Geisinger Health System Uses Big Data to Save Lives", hbr.org*
- Create and validate new models from changing datasets, to help find suitable patterns
 - changing traffic conditions



Applicable Solutions



- Next generation smart sensors for advanced building and industrial automation
- Several methods used, including regression, classification, clustering, etc.

Thank you for your attention.
Dankeschön.

Kiitos mielenkiinnostanne.

Большое спасибо.

Gracias.

Obrigado.

شكرا على انتباهكم
谢谢

Merci.

www.controlsoftware.eu

