Now is the time to integrate Artificial Intelligence



AlLab

Mastering Artificial Intelligence

Verhaert Masters in Innovation provides Artificial Intelligence development and consultancy services. The AlLab combines deep knowledge of Al technology with a system engineering approach. A 360° innovative product view on your project helps you to envision the possibilities of AI for user experience, products and processes. Starting from your AI idea or vision, we bring AI down to Earth with our concrete ideation approach by building rapid prototypes and demonstrators. Not quite there yet? No problem, we also **support you** in creating and refining a powerful and realistic AI product vision.



Our Al project approach





VERSATILE SKILLS & SERVICES

Algorithm development

- Artificial neural networks (ANN)
- Convolutional neural networks (CNN)
- Recurrent neural networks (RNN) Reinforcement learning (RL)
- Support Vector Machines (SVM) Principle component analysis (PCA)

Random decision tree forest

Kalman filtering

Algorithm categories

- Regressions, classifications, predictions
- Image recognition
- Predictive maintenance Anomaly detection
- Natural language processing or understanding (NLP/NLU)

Assessing data quality

Data gathering

- (multidisciplinary)
- Designing data gathering process Pre-processing & cleaning data
- Data augmentation Feature engineering (multidisciplinary)

Software skills

- Tensorflow, Keras, Scikit-learn ...
- Model serving (google cloud, amazon web services, local serving)
- python, matlab, java, C++ ...

Design strategies

- Design for improved user experience
- Learn cheap fail fast by building rapid
- prototypes and demonstrators 360° project view: inversing the learning curve

Al vision creation services

- Al readiness assessment Road map development
- Structured idea generation & selection
- Use case & interaction analysis

What sets us apart?





Project management under

uncertainty

R&D budget.

Inversing the learning curve by tackling uncertainty first, increasing the ROI on your



Algorithms don't live in a box. Integrating users and

surrounding technologies

from the start.

360° product view



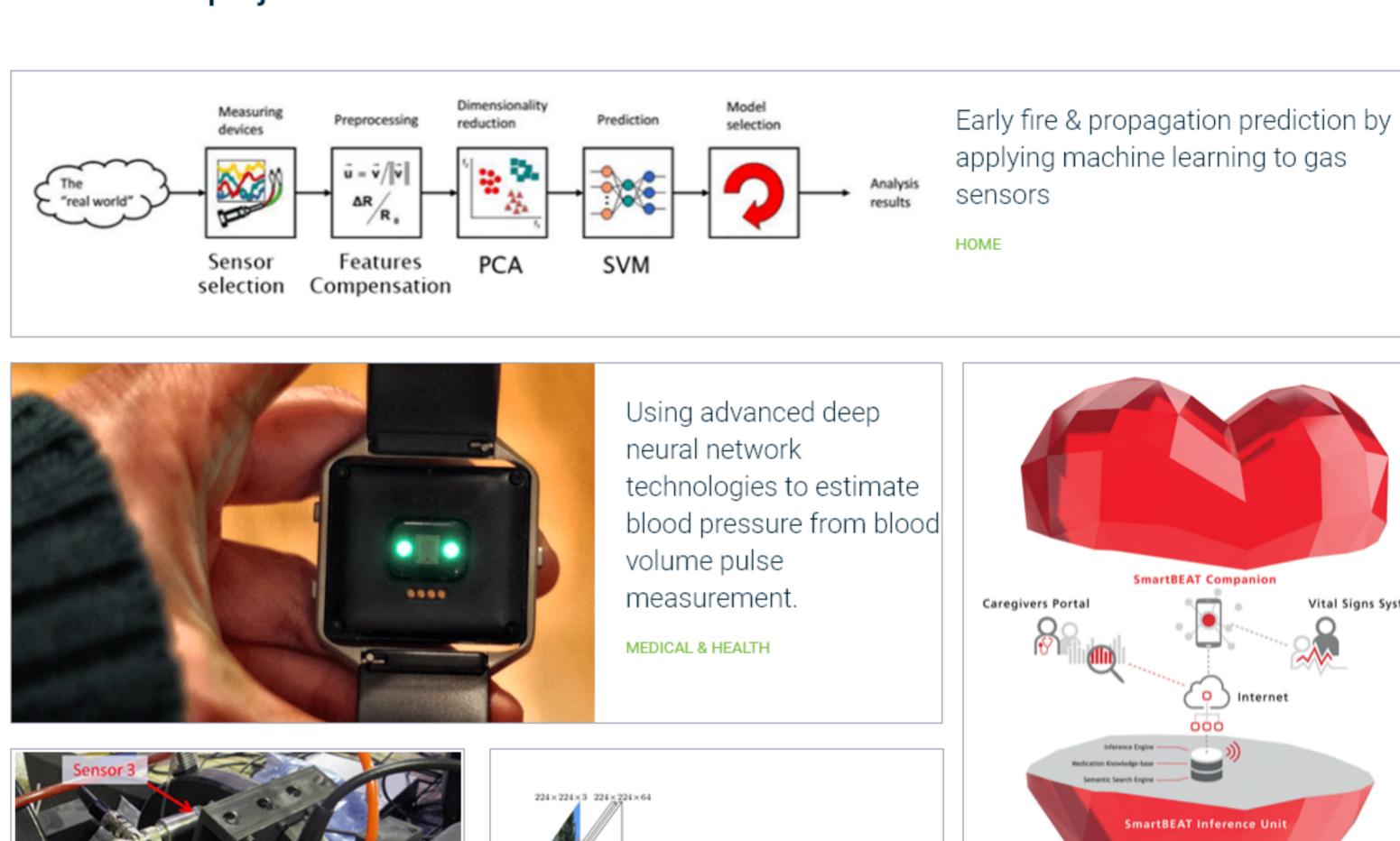
Expertise on Artificial Intelligence technology. Deep understanding of capabilities and constraints.

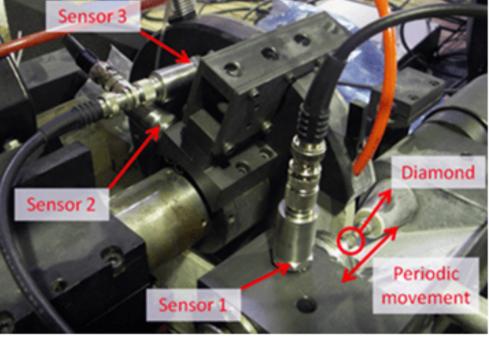


Beyond the algorithm

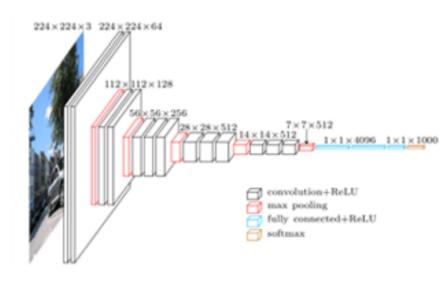
Gathering, understanding data and assessing the quality of data in a multidisciplinary way is required to make your project successful.

Some of our projects



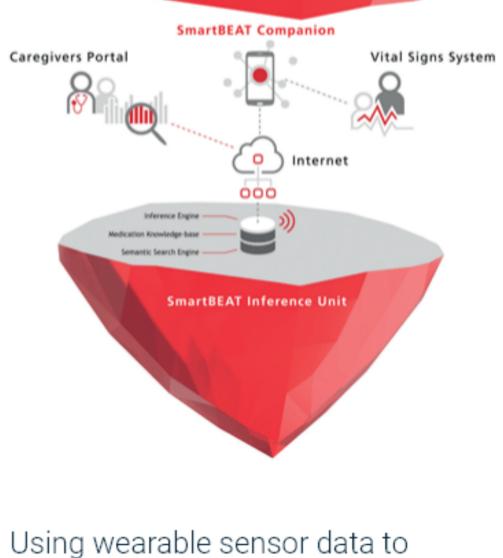


Classify the polishing state of diamonds, used to feed the polishing control loop (force & diamond facet polishing orientation). INDUSTRY



drivers behavior (safe, distracted, fatigue...), achieved by applying a convolutional neural network on webcam images of the driver. MOBILITY

Automated system to monitor car

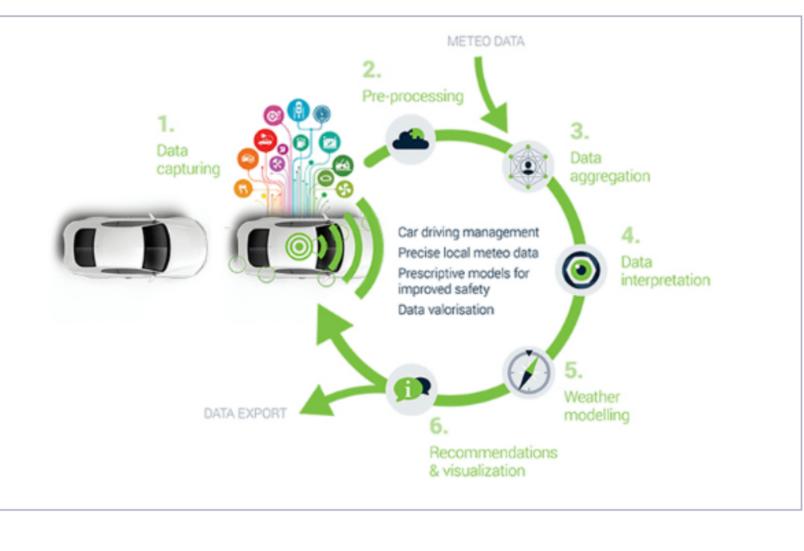


patients. Comparative study of machine learning techniques for human activity recognition. MEDICAL & HEALTH

monitor and incentivize heart failure

Improve road safety, provide driver alerts & improve weather predictions through analytics of car sensor data

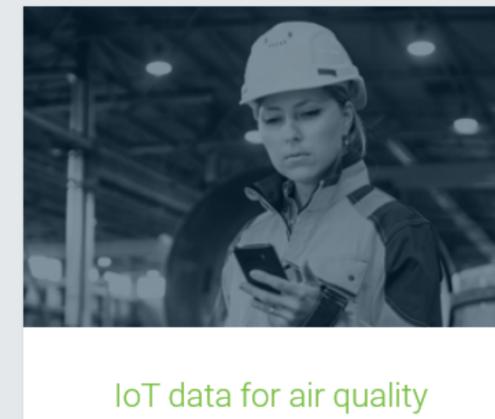
CITY & MOBILITY



Perspectives



Are you having a hard time defining the perfect AI systems for your project or...



mapping Using IoT, Big Data & AI to develop an agile system to predict non-safe zones for pregnant and nursing women in production plants.



MORE ARTICLES

5G is the next generation wireless communication technology, introduced by cellular network providers to make our lives more autonomous.

Service formats to meet your needs



Audits, studies, workshops and master classes throughout the innovation process.

Projects

Management and execution

of projects at our innovation

centers.

ABOUT

on-site experts implementing

new technologies and best

practices.

On-site consultancy Strengthen your team with

Incubation & technology transfer

Acceleration programs with

expert services, hackathons, coaching and facilities.

leading integrated product innovation company helping companies and entrepreneurs to innovate, creating new products, businesses and services. in f 💝 🊻 💟

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