

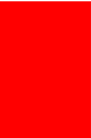


NORAM Analytics

AI Process Optimization

NORAM Analytics uses cutting edge machine learning technology to model and optimize the performance of industrial processes. We work with clients to identify key performance objectives and leverage our expertise in industrial process design and analysis to suggest improved operating points.

We deliver performance improvement without upset or downtime.



NORAM Analytics

Maximize Asset Value

Improve multiple aspects of operational performance simultaneously

- Increase production rate, yield or product quality
- Reduce production costs and environmental impact
- Understand complex performance trade-offs

Work Backwards

NORAM Analytics uses predictive models to work backwards from performance targets to find the operating conditions that best achieve them. Models are optimized to suggest an improved operating point. Retraining models with new data allows further improvements.

Gain Deep Insight

Machine learning finds and exploits complex relationships that are not otherwise obvious. Small improvements stack up to a significant increase in performance.

- Deep neural networks model relationships between hundreds of inputs and outputs
- Optimization algorithms test improved operating conditions virtually
- Models learn from new data to generate more accurate predictions
- Adaptive targets respond to changes in feeds, quotas, and product specifications

Check and Explain

NORAM Analytics leverages our expertise in developing, designing and analyzing industrial processes to set up and check an AI model, and interpret predictions. Suggested operating points are checked by process experts and experienced operators before being tested.



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