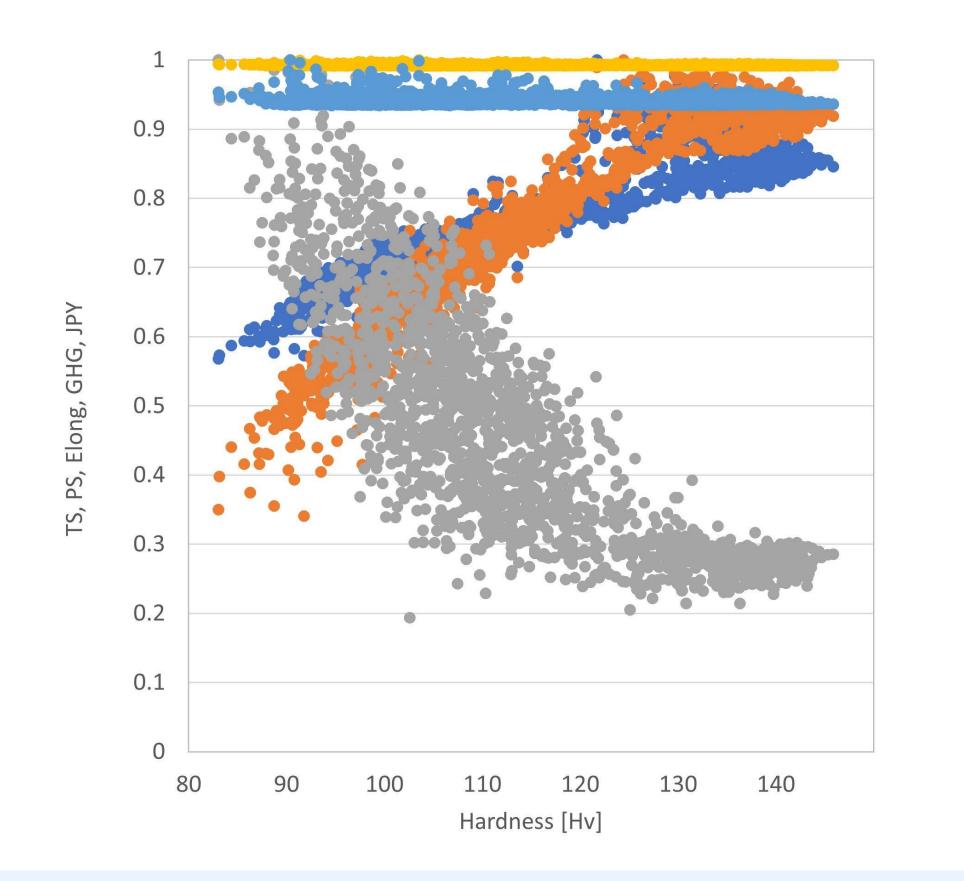


Optimize R&D with Al-powered analysis

Multi-Sigma democratizes sophisticated AI analysis techniques while cutting time and costs associated with R&D experimentation



- DEEP LEARNING WITH
 MINIMAL DATA
- HIGH-PRECISION
 PREDICTIONS
- ✓ MULTI-OBJECTIVEOPTIMIZATION
- ✓ EXPLAINABLE AI
- NO-CODE ANDCLOUD-BASED

Facing challenges with AI analysis?

- Traditional analysis requires large datasets and tends to achieve only moderate levels of accuracy
- Typical methods handle a single objective, leading to suboptimal results to complex problems
- Conventional AI can act as a 'black box', with little insight into how variables contribute to outcomes
- Al implementations often require expensive infrastructure, support personnel, and training

Multi-Sigma can help!

- Our platform can achieve highaccuracy predictions using minimal data without overfitting
- Factor analysis makes it possible to analyze the contributions of variables, making AI explainable
- Our Al automatically explores conditions that satisfy multiple objectives simultaneously
- Our software runs in any web browser and is built on the trusted Google Cloud Platform

Trusted by 100+ leading organizations:









HEALTHCARE & SCIENCE

Use Cases:

AGRICULTURE

CHEMICAL ENGINEERING

MECHANICAL ENGINEERING

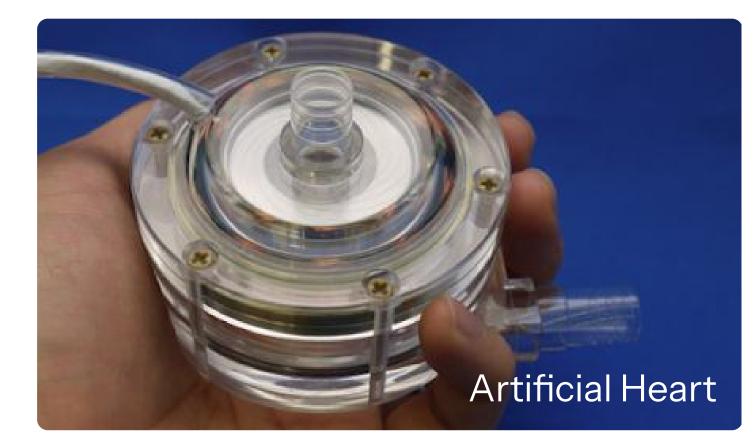
FINANCIAL SERVICES

Application: Materials Engineering



Challenge

AIST scientists aimed to improve the power and safety for special hydrodynamic bearings in an artificial heart. Bearing design involves numerous parameters, and optimizing them through trial and error has limitations.



By combining neural networks and multi-objective genetic algorithms, AIST increased the generating force of the bearings and reduced red blood cell damage.

Benefits

Impact

Results defied conventional wisdom. Through Multi-Sigma's analyses of 30 to 60 iterations for 7,200 parameter combinations, AIST found an innovative solution with less than 1 percent of the typical effort.

Multiple objective variables and higher accuracy

Multi-Sigma predicts multiple objective variables and performs multi-objective optimization, providing more accurate results than the competition.

Sample datasets	DataRobot	Multi-Sigma
Product characteristics	0.96	0.518
Anomaly detection from waveforms	0.1883	0.012
Est. of man-hours in assembly manufacturing	6.6177	3.723
Formulation of raw materials	0.1306	0.0406



AIZOTH Mission

Empowering organizations to leverage AI to enhance processes and improve outcomes



Get started effortlessly

Upload a CSV file and see optimized analysis in a cloud-based, browser-friendly platform



Free Trial

Contact us to start your one-month free trial or schedule a free consultation: info@aizoth.com | www.aizoth.com/en

