

14 years of building Robust Quality Engineering in Malaysia



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[6 years in Proton Bhd, 30 years in UTM Malaysia]

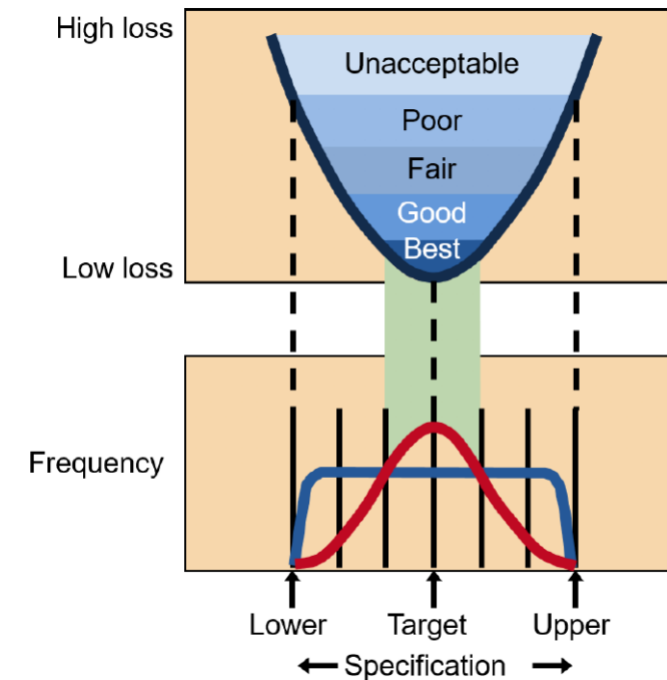
Dr Genichi Taguchi Quality Philosophy and His Taguchi Methods



Dr. Taguchi to USA - Early 80's

- ❑ In early 80's, Dr. Taguchi got involved with three US companies, **Xerox, Ford and Bell Laboratories**. Xerox discovered his methods through Fuji Xerox and Ford from their supplier Nippon Denso.
- ❑ In 1981, under a guidance from Dr. Deming, Ford Motor Company established Ford Supplier Institute, to train its supplier companies. FSI became ASI in 1985.
- ❑ In 1981, Dr. Taguchi offered a lecture at the Bell Labs, then asked them to bring the most difficult problem. They brought 256k IC Photolithography Window Size problem.

Quality Loss Function = Loss to Society



Transfer of Quality Engineering Knowledge through Partnering with Quality Guru



Attended QES Conference in June 2010 – Introduced by Miyagi sensei to Mr Shin Taguchi who is the son of Dr Genichi Taguchi -



1st WORKSHOP - Introduction to Robust Engineering using Taguchi Method by **Shin Taguchi**, 21-23 March 2011, Kuala Lumpur, Malaysia

Special Intensive 2-day Seminar



**Robust Engineering
(Taguchi Methods)**



Dr. Genichi Taguchi

**April 22 & 23, 2013
Universiti Teknologi Malaysia**



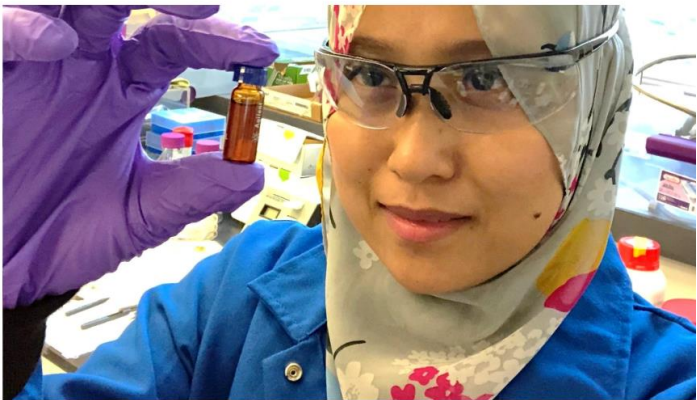
**Shin Taguchi
CTO ASI Consulting Group
President American Supplier Institute, Inc.
shin.taguchi@asisua.com**

**April 2013 – 1st ICRQE Kuala Lumpur
October 2014 - 2nd ICRQE Bangalore, India
January 2016 – 3rd ICRQE Mumbai, India
August 2018 - 4th ICRQE Kuala Lumpur
June 2022 – 5th ICRQE Japan (Online)
Sept 2024 – 6th ICRQE Penang Malaysia**

SOME KEY RESEARCHERS BENEFITED FROM COLLABORATION FROM 2010- now in UTM, UKM, Uniten, UniMAP, UMPsa, UniKL PG, etc. (MALAYSIAN UNIVERSITIES)

A Quality Career: Dr Rozzeta Dolah Part 1

Minitab Blog Editor | 9/19/2018
Topics: Six Sigma, Data Analysis, Quality Improvement
[Twitter] [LinkedIn] [Facebook]



To celebrate Minitab’s support of the recent International Conference on Teaching Statistics in Kyoto, Japan, we sat down with Dr Rozzeta Dolah, whose work in statistics and engineering has taken her to her native Malaysia, to Japan and then the USA where she



Wan Zuki Azman Wan Muhamad
Associate Professor, Institute of Engineering Mathematics, Universiti Malaysia Perlis
Verified email at unimap.edu.my
Engineering Analytics Mahalanobis Taguchi System Statistical Pattern Recogniti... Machine Learning



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MAHALANOBIS-TAGUCHI ...



Nolia Harudin
Lecturer of Mechanical engineering, Universiti Tenaga Nasiona
Verified email at uniten.edu.my
Optimization and Prediction... Machine Learning Mahalanobis Taguchi System

TITLE CITE

Classification performance of thresholding methods in the Mahalanobis–Taguchi system
F Ramlie, WZAW Muhamad, N Harudin, MY Abu, H Yahaya, ...
Applied Sciences 11 (9), 3906

Reconstruction of medical images using artificial bee colony algorithm
NA Rusdi, ZR Yahya, N Roslan, WZA Wan Muhamad
Mathematical Problems in Engineering 2018 (1), 8024762

Optimal feature selection of taguchi character recognition in the mahalanobis-taguchi system using bees algorithm
F Ramlie, KR Jamaludin, R Dolah, W Muhamad

TITLE

Dynamic mechanical properties and thermal proper fiber reinforced unsaturated polyester hybrid comp
NIN Haris, RA Ilyas, MZ Hassan, SM Sapuan, A Afdzaluddin, ...
Polymers 13 (19), 3343

Classification performance of thresholding methods
F Ramlie, WZAW Muhamad, N Harudin, MY Abu, H Yahaya, ...
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TITLE

Classification performance of thresholding methods in the Mahalanobis–Taguchi system
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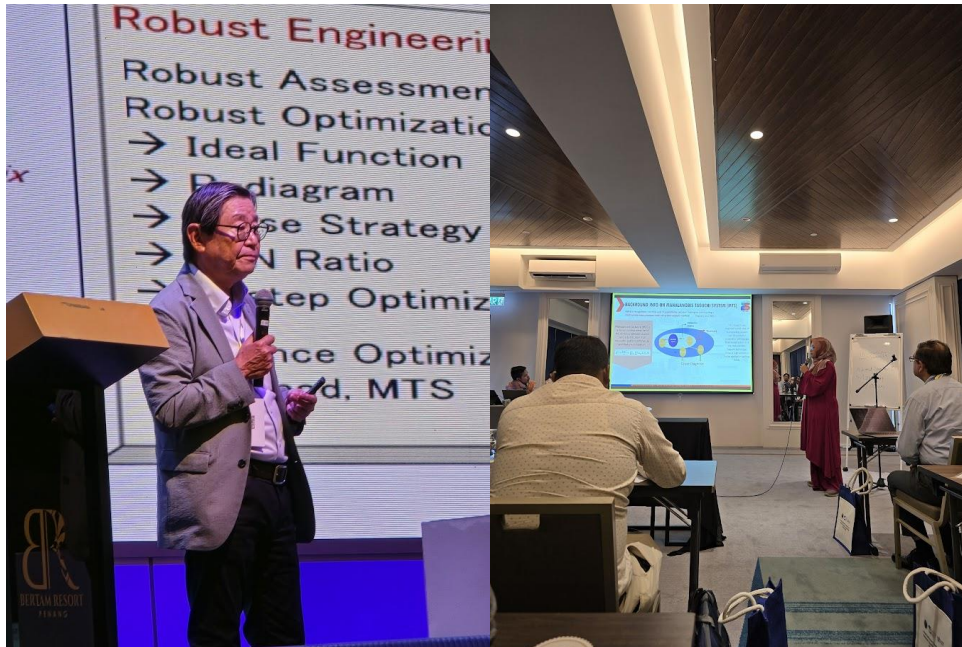
Binary Bitwise Artificial Bee Colony as Feature Selection Optimization Approach
Taguchi’s T-Method
N Harudin, F Ramlie, WZA Wan Muhamad, MN Muhtazaruddin, ...
Mathematical Problems in Engineering 2021 (1), 5592132

Criteria selection for an mba programme based on the mahalanobis taguchi system
kanri distance calculator
WZAW Muhamad, KR Jamaludin, F Ramlie, N Harudin, NN Jaafar
2017 IEEE 15th Student Conference on Research and Development (SCOREd), 220-223

6th International Conference on Robust Quality Engineering (ICRQE) : Main Organizer – Inst of Engrg Mathematics, UniMAP from 2nd -3rd September 2024

Key Note by Shin Taguchi

Over 30 papers on Quality Engineering papers
Delegates from Japan, Malaysia, India mainly.



Some Key Success Factors

- Long-term thinking with flexibility (structure, finance, resources)
- Collaborate with the right people with similar dream and vision
- Conscious efforts taken to ensure sustainability
- Always positive and sincere in the cooperation and joint activities