MIRCE Science

Typically, performance of functionable systems[1], like miles travelled, units produced, energy supplied and similar becomes known at the end of their operational life[2]. Having realised, early in life, that "future performance cannot be improved by doing better statistics", Knezevic endeavoured to create a body of knowledge that would be able to predict "the future" statistics of the functionable systems, at the time when something could be done about it.

Five decades later it culminated in the creation of MIRCE Science[3], a mathematical scheme that defines the motion of functionable systems through MIRCE Space resulting from any functionability action whatsoever and predicts measurable performances in operationally defined physical reality. The philosophy of MIRCE Science is based on the premise that the purpose of existence of any functionable system is to do a work, which is considered to be done when a measurable function is performed,

By making use of MIRCE Functionability Function it is possible to predict expected functionability performance for each of physically feasible alternative, enabling engineers and managers to select the preferential solution in accordance to the given criterion.

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[1] Functionable system is a set of interactive elements and rules able to perform at least one measurable function [1]

[2] Boeing 747, registration number N747PA, which belonged to Pan Am transportation system, have delivered the work of 80,000 flying hours and received 806,000 maintenance man-hours, during the 22 years of in-service life

[3] Knezevic, J., The Origin of MIRCE Science, pp. 232, MIRCE Science, Exeter, UK, 2017, ISBN 978-1-904848-06-6