

The MIRCE Akademy 2010 Annual Lecture



18.30, Colin Chapman Suite, Woodbury Park, Exeter, UK, 7th December 2010

The Unit of Functionability - 1 Senna

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Functionability, the ability of maintainable system type being in positive functionability state, at any instant of in-service time is the essential measure of its functionability performance. The pattern of the motion of maintainable systems through Mirce-space is determined by natural phenomena, such as fatigue, corrosion, creep, humidity, wind, hail, foreign object damage, solar radiation and similar, on one hand and by human rules regarding the type, content and timing of all actions taken during operation, maintenance and support processes. Thus, functionability is an emergence property of in-service behaviour of maintainable systems resulting from the complex interactions of all contributing factors in the time domain. Mathematical description of functionability of maintainable systems is fully defined by the Mirce Functionability Equation.

Currently, functionability is quantified in probabilistic terms, as a mathematical entity. However, in order to express it as a physically measurable entity I have decided, to name the unit of functionability for any maintainable system type as **1 Senna** (Ayrton Senna de Silva, 1960-1994). It is equal to the expected functionability of maintainable system, type considered, and taking into consideration the First Law of Mirce-mechanics observable functionability values in the future will be between zero and one, but never one.

I made this decision as a sign of the respect for the unique talent, determination, intellect and ability to maximise functionability performance of Formula 1 System, by systematically dealing with the extremely complex relationships and multidimensional interactions of large number of functionability phenomena that awarded him 41 victories, 65 pole positions and 3 Formula 1 World Championships.

Information from existing literature and other media, which I have been studying for over 25 years about Senna, had considerable impact on the development of Mirce Mechanics at the MIRCE Akademy and clearly revealed scientific mind inside Brazilian's world famous Yellow helmet.

Admission Free, all welcome. R.S.V.P. by 1st December

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