

Abstract Submitted
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DEFINITION of (so MIScalled) “Complexity” As UTTER-SIMPLICITY!!!(sMciUS!!!) VERSUS DEVIATIONS FROM(sMciUS!!!):
“COMPLICATEDNESS” DEFINITION(S) and MEASURE(S)!!! F. YOUNG, C-S/F=C/Los Altos, E. SIEGEL, C-S/F=C/La Jolla — (so MIScalled) “complexity” (sMc) associated BOTH SCALE- INVARIANCE Symmetry-RESTORING(S-I S-R) [vs. S-I S-B!!!], AND X (w) P(w) $1/w^{(1.000\dots)}$ “pink”/Zipf/Archimedes-HYPERBOLICITY INEVITABILITY CONNECTION is by simple-calculus SISR’s logarithm- function derivative: $(d/dw)\ln(w)=1/w=1/w^{(1.000\dots)}$, hence: $(d/dw)[\text{SISR}](w)=1/w=1/w^{(1.000\dots)}$ =(via Noether-theorem relating continuous-(SISR)-symmetries to conservation-laws)=(d/dw)[4-DIV (J(INTER-SCALE)=0)](w)= $1/w=1/w^{(1.000\dots)}$. Hence sMc is information inter-scale conservation [as Anderson-Mandell, Fractals of Brain; Fractals of Mind(1994)-experimental- psychology!!!], i.e. sMciUS!!!, VERSUS “COMPLICATEDNESS”, is sMcciUS!!!: EITHER: PLUS (Additive: Murphy’s-law absence) OR TIMES (Multiplicative: Murphy’s-law dominance) various disparate system-specificity “COMPLICATIONS”. “COMPLICATEDNESS” MEASURES: DEVIATIONS FROM sMciUS!!!: EITHER [S-I S-B] MINUS [S-I S-R] AND/OR [“red”/Pareto X(w) P(w) $1/w^{(\#/=1.000\dots)}$] MINUS [X(w) P(w) $1/w^{(1.000\dots)}$ “pink”/Zipf/Archimedes-HYPERBOLICITY INEVITABILITY] = [$1/w^{(\#/=1.000\dots)}$] MINUS [$1/w^{(1.000\dots)}$]; almost but not exactly a fractals Hurst-exponent-like [$\# - 1.000\dots$]!!!

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