



Signal Resilient to Interpolation: The Mathematics: The Mathematics of the Signal Resilient to Interpolation (Paperback)

By Dr Carlo Ciulla

Createspace Independent Publishing Platform, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. The calculation of the intensity-curvature terms is related to the discrete sample of signal values and is also related to the analog/continuous transformation necessary to the function to become an interpolator. Such calculation is undertaken within the entire spatial extent of the sampling location, and as shown in Ciulla (2009), leads to the measurement of the energy level change determined through the interpolation function which is called: the Intensity-Curvature Functional. The idea is therefore to equate the intensity-curvature term calculated with the signal (image) through the given mathematical function in two conditions: (i) the given signal as it has been sampled and (ii) the signal calculated at locations where is unknown because of the limitations of the sampling instrument. Through mathematical developments that illustrate concepts of algebra and calculus, the equation of the two intensity-curvature terms furnish the instrument apt for deriving a new signal. This new signal is dependent on the given model function and is called Signal Resilient to Interpolation (SRI). The book includes illustration of the math processes, logical reasoning, which show how to generate the...



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