

DIS-CONNECT...

some thoughts about information control

QUESTION: How do advanced aeronautics relate to human well-being?
Does nuclear particle research adversely impact our society?

RESPONSE: It's better not to consider these topics; they stir up controversy.
Beware of idle speculation or non-prescribed ideologies.

QUESTION: How is computer proliferation affecting personal privacy?
Is power consumption somehow related to PCB toxicity?

WARNING: These questions are forbidden.
It appears your neural circuits aren't functioning properly.
Return to a Government Reeducation Center for a systems diagnostic promptly.

ACCESS TERMINATED.
SCREEN EMPTY.

Signal interpolated by L

Where:

$$\begin{bmatrix} K_x(t_1, t_1) & K_x(t_1, t_2) & \dots & K_x(t_1, t_m) \\ \vdots & \vdots & \ddots & \vdots \\ K_x(t_m, t_1) & K_x(t_m, t_2) & \dots & K_x(t_m, t_m) \end{bmatrix}$$

fig. 2 Interpolation effects. a) Original

One of the most widely used basis functions, is the sinc function.

III. THE SINC(t) FUNCTION

The classic sampling theorem states that if $x(t)$ is a low-pass waveform, the waveform is completely determined by its samples taken at intervals of $1/(2W)$.

$$x(t) = \sum_{n=-\infty}^{\infty} x\left(\frac{n}{2W}\right) \text{sinc}\left[2W\left(t - \frac{n}{2W}\right)\right]$$

Where: $\text{sinc}\left[2W\left(t - \frac{n}{2W}\right)\right] = \frac{\sin\left[2W\left(t - \frac{n}{2W}\right)\right]}{2W\left(t - \frac{n}{2W}\right)}$

reconstruction function

Theoretically, $x(t)$ can be reconstructed from the samples using the function $\text{sinc}(t)$. This process is called convolution as:

$$x(t) = \text{Comb}_{1/(2W)}(x) * \text{sinc}(t)$$

There is a disadvantage to using the interpolation process of practical systems. The contribution of all the samples, going backward to a given interpolation point. One possibility is to use a truncated version of the function and accept a truncation error.

down and has been used for sequence analysis for interpolation filters [7, 8]. Here, we have:

$$a_{ij}[x(T_j)] = \sum_{j=1}^N x(T_j) B_j(t)$$

(6)

$$B_j(t) = \sum_{i=1}^N K(t - T_i) a_{ij}$$

linear system.

Gunther: Woe to those who ask too much.

Liao: Yeah. Questioning is usually tolerated only within limits.

Nadya: Mmm . . . we're trained to be obedient from the cradle. Yet blind obedience is ultimately stupid. Isn't it good to question why many phenomena exist?

Bill: Questioning is okay, but we we can understand only a small fraction of the questions. The world is simply too complex and our lifespans are too brief. For that reason, most of our "answers" are essentially expedients. They represent simplifications of phenomena that are inherently complex.

Liao: Critical questioning might be annoying, but it is essential. Indeed, it's through questioning that many discoveries and innovations arise.

Gunther: Every system has its thresholds. When societies are robust and healthy, lots of criticism and questioning is tolerated. However, under stress conformity is often demanded. As Quetelet notes, there's a mathematics to social processes.

Bill: I find it fascinating how some dictators almost welcome stress: it gives them a chance to consolidate power – at least for a short term. Few dictators are far-sighted enough to realize power requires a broad base to be sustainable.

Gus: (sighing) You guys are over my head . . . I feel disconnected from this pseudo-conversation.

- T Newfields

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