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January 6, 2009 Abstract Synthetic
sound generation techniques for pipe
or-gans are currently based on
samples and wave tables, and physical
synthesis. The samples require expen-
sive and time-consuming editing and

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In this paper I present a method of synthesizing pipe

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present a method of synthesizing pipe

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Interpolation Additive synthesis is a

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Interpolation sound synthesis technique that creates timbre by adding sine waves together. The timbre of musical instruments can be considered in the light of Fourier theory to consist of multiple harmonic or inharmonic partials or overtones.

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January 6, 2009 Abstract Synthetic
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Interpolation samples and wave tables, and physical synthesis. The samples require expensive and time-consuming editing and recording.

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or inharmonic partials or overtones. Each partial is a sine wave of different frequency and amplitude that swells and decays over time due to modulation from an ADSR envelope or ...

Additive synthesis - Wikipedia

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Nonetheless, if we had the resources of a suitably expansive synth to hand, we could set up a patch to produce just one organ note, imitating the percussion by diverting part of the 4' or 2 2/3' signal through a VCA controlled by an AD contour

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Interpolation generator. Figure 7: Adding a percussive shape to the amplitude contour.

Synthesizing Hammond Organ Effects
- Sound on Sound

Another oddity of organ tones is that some harmonics are far more

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Interpolation important than others to the way we perceive the sounds. For example, using digital techniques it is sometimes possible to delete certain harmonics completely, even the fundamental, without making the slightest subjective difference to the sound of an organ pipe.

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Novel observations on organ pipe
sounds and frequency spectra

When designing his organ, Hammond
decided that each tonewheel should
generate a sound as close as possible
to a sine wave, so that players could
construct timbres using a

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Interpolation and overtones. Building on this idea, he chose a system by which players could mix up to nine sine waves simultaneously, using 'drawbars' (see Figure 2) to give each an amplitude ranging from zero to eight.

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Interpolation Synthesizing Tonewheel Organs: Part 1 - Sound on Sound

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Nonetheless, if we had the resources
of a suitably expansive synth to hand,
we could set up Page 2/12. Read Book
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Interpolation a patch to produce just
one organ note, imitating the

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The Hammond organ is an electric organ, invented by Laurens Hammond and John M. Hanert and first manufactured in 1935. Various

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models have been produced, most of which use sliding drawbars to specify a variety of sounds. Until 1975, Hammond organs generated sound by creating an electric current from rotating a metal tonewheel near an electromagnetic pickup, and then strengthening the signal with an

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Interpolation amplifier so it can drive a speaker cabinet. The organ is commonly used with, and associated with,

Hammond organ - Wikipedia

The Hammond organ can be thought of as a primitive additive synthesis machine. Sounds are made of a mix of

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a fundamental frequency plus harmonics up to the 9th harmonic, plus the second and third subharmonics (signals that are $1/2$ and $1/3$ the frequency of the fundemental). On most Hammonds sounds can be created with a set of “ drawbars ” , which are simply slider-

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Interpolation type controls that are mounted so that they pull out or push into a panel, rather than sliding back and forth across the panel ...

Hammond organ | Electronic Music
Wiki | Fandom

One of the key features of natural

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Interpolation sounds is that they have a dynamic frequency response that does not remain fixed. However, a popular approach to the additive synthesis system is to use frequencies that are integer multiples of the fundamental frequency, which is known as harmonic additive synthesis.

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Sound Synthesis Theory/Additive
Synthesis - Wikibooks ...

Figure 4.2 This organ has a great many pipes, and together they function exactly like an additive synthesis algorithm. Each pipe essentially produces a sine wave (or

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Interpolation), and by selecting different combinations of harmonically related pipes (as partials), we can create different combinations of sounds, called (on the organ) stops.

Music and Computers

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Interpolation
Front-panel controllers allow you to tweak the synth tones intuitively in real time, including convenient ADR and cutoff/resonance adjustment with the harmonic bars in the ORGAN block. Onboard effects like “ Bit Crash ” provide the ability to create modern synth voices for current

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dance music, including dubstep.

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