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2009 Abstract Synthetic sound generation  
techniques for pipe or-gans are currently  
based on samples and wave tables, and

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physical synthesis. The samples require expensive and time-consuming editing and recording. In this paper I present a method of synthesizing pipe

## *Organ Sound Synthesis by Harmonic Interpolation*

present a method of synthesizing pipe Organ Sound Synthesis by Harmonic Interpolation Additive synthesis is a 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

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harmonic or inharmonic partials or overtones.

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W. Jibson January 6, 2009 Abstract Synthetic  
sound generation techniques for pipe or-gans  
are currently based on samples and wave  
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instruments can be considered in the light of Fourier theory to consist of multiple harmonic 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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one.

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

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## *Sound*

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

## *Novel observations on organ pipe sounds and frequency spectra*

When designing his organ, Hammond decided that each tonewheel should generate a sound

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as close as possible to a sine wave, so that players could construct timbres using a fundamental 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.

*Synthesizing Tonewheel Organs: Part 1 - Sound on Sound*

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Synthesis By Harmonic Interpolation a patch to produce just one organ note, imitating the percussion

## *Organ Sound Synthesis By Harmonic Interpolation*

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

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an electromagnetic pickup, and then strengthening the signal with an 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 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 fundamental). On most Hammonds sounds can be created with a set of “drawbars”, which are



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simply slider-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 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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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 something like it), 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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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 dance music, including dubstep. VR-09 Editor for iPad

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