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

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

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Present a method of
synthesizing pipe
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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

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of Fourier theory to
consist of multiple
harmonic or
inharmonic partials or
overtones.

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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 harmonic or inharmonic partials or overtones. Each partial is a sine wave

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of different frequency
and amplitude that
swells and decays
over time due to
modulation from an
ADSR envelope or ...

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Nonetheless, if we had the resources of a suitably expansive synth to hand, we

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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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Hammond Organ
Effects - Sound on
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

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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

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tonewheel should generate a sound 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

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'drawbars' (see Figure 2) to give each an amplitude ranging from zero to eight.

Interpolation

Synthesizing

Tonewheel Organs:

Part 1 - Sound on

Sound

This online message

organ sound

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

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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 models have been produced, most of which use sliding drawbars to specify a variety of sounds. Until 1975, Hammond organs generated sound by

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creating an electric current from rotating a metal tonewheel near 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 -

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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

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of the fundamental).

On most Hammonds sounds can be created with a set of

“drawbars”, which are 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 |

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Electronic Music Wiki
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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

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the fundamental frequency, which is known as harmonic additive synthesis.

Interpolation

Sound Synthesis
Theory/Additive
Synthesis - Wikibooks

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Figure 4.2 This organ has a great many pipes, and together they function exactly like an additive

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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.

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Music and Computers

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

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modern synth voices
for current dance
music, including
dubstep. VR-09 Editor
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