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eas.caltech.edu/news/1174. Prof. P. P. Vaidyanathan has been with the Electrical Engineering department of the California Institute of Technology since 1983. His main research interests are in digital signal processing, sparse array signal processing, spectrum sensing and applications, multirate systems and filter banks, wavelet transforms, compressive sensing and sparse reconstruction, genomic signal processing, and signal processing for digital communications.

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Caltech DSP Group: Professor P. P. Vaidyanathan

Palghat P. Vaidyanathan is the Kiyo and Eiko Tomiyasu Professor of Electrical Engineering at the California Institute of Technology, Pasadena, California, USA, where he teaches and leads research in the area of signal processing, especially digital signal processing, and its applications. He has authored four books, and authored or coauthored close to five hundred papers in various IEEE journals and conferences. Prof. Vaidyanathan received his B.Tech and M. Tech degrees from the Institute of Rad

P. P. Vaidyanathan - Wikipedia

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Publications - Dr Ravi Vaidyanathan

Course Info . Description. With signal processing becoming ubiquitous in today's computer literate world, a large number of application areas are growing in importance, both in industry and in the research community, such as signal processing for distributed sensor networks, speech, image and video processing, medical image processing, wavelets and multiresolution signal processing, genomic ...

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and probably deserves to be taught in any DSP course for engineers,
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processing the sampling rate of a signal is changed in or-der to
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Decimation, or down-sampling, reduces the sampling rate, whereas expansion, or up-sampling, followed by interpolation increases the sampling rate.

Multirate digital signal processing - Åbo Akademi

Multirate systems are building blocks commonly used in digital signal processing (DSP). Their function is to alter the rate of the discrete-time signals, which is achieved by adding or deleting a portion of the signal samples. Multirate systems play a central role in many areas of signal processing, such as filter bank theory

Multirate Signal Processing Concepts in Digital Communications

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