List of Publications and Invited Talks 1. 11. 2007
The ten most important articles are marked by ⬤ followed by a number.

TAPIO SARAMÄKI

Books, Book Chapters, and Special Publications


International Journal Articles


SARAMAKI: LIST OF PUBLICATIONS AND INVITED TALKS

International Conference Articles


T. Saramäki, “Optimization of cosine-modulated near perfect-reconstruction pseudo-QMF banks for practical applications”, presented at the European Workshop on Multirate Digital Signal Processing and Applications, Hamburg, Germany, March 20–21, 1996 (copies of the transparencies of this workshop have been collected together).


Patents

[303] T. Saramäki, T. Ritoniemi, V. Eerola, T. Husu, E. Pajarre, and S. Ingalsuo, “Decimation Filter,” United States Patent 5,689,449, 18.11.1997 (Also patents in the most important European and Asian countries. This patent has been used worldwide in many commercial products; Desimointisuodatin), Patent No 69255, Finland, 27.05.1996.


[305] ● 10: T. Saramäki, T. Ritoniemi, V. Eerola, T. Husu, E. Pajarre, and S. Ingalsuo, “Method and arrangement in a transposed digital FIR filter for multiplexing a binary input signal with tap coefficients and a method for designing a transposed digital filter,” United States Patent 6,370,556, April 9, 2002 (Also patents in the most important European and Asian countries) This patent has been used world-wide in many commercial products; Menetelmä ja järjestely transponoiduissa digitaalisessa FIR-suodattimessa binäärisen sisääntulosignaalin kertoimien tappikertoimilla seka menetelmä transponoidun digitaalisen suodattimen suunnittelemiseksi, Patent No 96256, Finland, 27.05.1996.

National Conference Articles


Laboratory Reports


Other Publications

[321] T. Saramäki, Description of the following program packages developed by the author: GROAN (p. 25), CLASSIC (p. 27), HR (p. 28), IFIR (p. 29), NY (p. 30), SUBBI (p. 31), MULTI (p. 32), in *Scandinavian digital signal processing inventory*, edited by J. Skyttä, Laboratory of Information and Computer Science, Department of Technical Physics, Helsinki University of Technology, Report TKK-F-B91.

Lecture Notes


[323] T. Saramäki, “Basic Digital Signal Processing,” 1996 (in English)

[324] T. Saramäki, “Advanced Digital Filtering,” 1996 (in English)

[325] T. Saramäki, “System Level DSP Algorithms,” 1997 (in English)

[326] T. Saramäki, “Discrete-Time Wavelets,” 1997 (in English)

[327] T. Saramäki, “Digital Linear Filtering I,” 1999 (in English)

[328] T. Saramäki, “Digital Linear Filtering II,” 1999 (in English)

[329] T. Saramäki, “Multirate Digital Signal Processing,” 1999 (in English)

Invited Presentations and Participation in Education Programs


T. Saramäki, “Efficient algorithms for designing HR filters with arbitrary specifications, optimum magnitude in the Chebyshev sense, and different numerator and denominator orders,” University of California, Santa Barbara, June 1982.


T. Saramäki, “Multiplier-free decimators for superresolution sigma-delta A/D converters,” University of California, Santa Barbara, June 1990.


T. Saramäki, “Apuneuvona luova hulluus” (“Creative madness as a basic tool”) in an education program for youngsters searching for a proper profession in the future. Altogether four Finnish scientists were involved in this program. This program was delived as a CD-ROM to most Finnish schools and is entitled “Ammattina tutkija — Ammateista haastavin” (“A researcher as a profession - the most challenging profession”), the Academy of Finland, 2000.


T. Saramäki, A TV interview for an education program on scientific research in Serbia during the above-mentioned conference. Some parts of this interview were broadcasted as a TV program in Serbia.


