

Title (en)

COMPUTATION OF DISCRETE FOURIER TRANSFORM

Title (de)

RECHENVORRICHTUNG FÜR DIE DISKRETE FOURIERTRANSFORMATION

Title (fr)

APPAREIL, PROCEDES ET PRODUITS DE PROGRAMME INFORMATIQUE POUR DETERMINER AVEC PRECISION LES COEFFICIENTS D'UNE FONCTION

Publication

**EP 1259900 A2 20021127 (EN)**

Application

**EP 01916226 A 20010226**

Priority

- US 0106046 W 20010226
- US 18534600 P 20000226
- US 20160900 P 20000503

Abstract (en)

[origin: WO0163463A2] The present invention provides apparatus, methods, and computer program products for providing coefficients of a function representative of a signal. In one embodiment, the apparatus, methods, and computer program products of the present invention, taking advantage of the independence of samples, provide complete sets of coefficients of the function as each sample is received and corrects the updated coefficients for accuracy by applying a rotating reference system. A such, the apparatus, methods, and computer program products of the present invention are capable of providing accurate coefficients with decreased latency. In another embodiment, the apparatus, methods, and computer program products of the present invention use learning models to derive complete sets of coefficients of functions as each sample is received. In another embodiment, the apparatus, methods, and computer program products of the present invention use learning models to determine apparatus, methods, and computer program products for generating coefficients of function.

IPC 1-7

**G06F 17/14**

IPC 8 full level

**G06F 17/14** (2006.01); **G06N 3/00** (2006.01); **G06N 3/12** (2006.01); **G06N 7/02** (2006.01)

CPC (source: EP)

**G06F 17/141** (2013.01)

Citation (search report)

See references of WO 0163463A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0163463 A2 20010830**; **WO 0163463 A3 20020307**; AU 4327901 A 20010903; EP 1259900 A2 20021127; JP 2003524257 A 20030812; TW 580623 B 20040321

DOCDB simple family (application)

**US 0106046 W 20010226**; AU 4327901 A 20010226; EP 01916226 A 20010226; JP 2001562357 A 20010226; TW 90119178 A 20010806