Title (en)

A SUBOPTIMAL DETECTOR FOR TIME FREQUENCY PACKING

Title (de)

SUBOPTIMALER DETEKTOR FÜR ZEITFREQUENZVERPACKUNG

Title (fr)

DÉTECTEUR SOUS-OPTIMAL POUR GROUPAGE PAR FRÉQUENCE TEMPORELLE

Publication

EP 4342082 A1 20240327 (EN)

Application

EP 21947411 A 20210628

Priority

CN 2021102816 W 20210628

Abstract (en)

[origin: WO2023272447A1] A soft-output symbol detector (500) for detecting one or more symbol streams from a received signal (101) representing multiple time-frequency packed linearly modulated signals (101a). The detector (600) comprises one or more processors (601) configured to: process the received signal (101) to compute a proper joint probability mass function (102); form a factor graph (103) by performing an exact factorisation of the joint probability mass function (102); compute marginals (104a) of the joint probability mass function (102) by performing a message-passing algorithm on nodes (103a, 103b) of the factor graph (103); and detect the symbol stream (s) (105a) in dependence on the computed marginals (104a). Detecting the symbol stream (s) (105a) in dependence on the computed marginals (104a) enables the detection to be based on the exact factorisation of the proper joint probably mass function (102) of the received signal (101).

IPC 8 full level

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CPC (source: EP)

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