

Title (en)

COARSE- GRAINED MULTILAYER FLOW INFORMATION DYNAMICS FOR MULTISCALE MONITORING

Title (de)

GROBKÖRNIGE, MEHRSCHICHTIGE STRÖMUNGSINFORMATIONSDYNAMIK FÜR MEHRSKALIGE ÜBERWACHUNG

Title (fr)

DYNAMIQUE D'INFORMATIONS DE FLUX MULTICOUCHE À GROS GRAIN SERVANT À UNE SURVEILLANCE À ÉCHELLES MULTIPLES

Publication

EP 3682304 A1 20200722 (EN)

Application

EP 18855282 A 20180711

Priority

- US 201762557733 P 20170912
- US 2018041714 W 20180711

Abstract (en)

[origin: WO2019055112A1] Described is a system for multiscale monitoring. During operation, the system receives surveillance data of a scene having a plurality of zones. The surveillance data includes an object flow tensor Vindicating a number of objects flowing from one zone to another zone at time t and an object communication tensor C indicating a number of communications sending from one zone to another zone at time t. The system then determines a cluster membership of the plurality of zones. Dependency links between communications and flows are then determined. At least one cluster of one or more zones is designated as a region of interest based on the dependency links, which allows the system to control a device based on the designated region(s) of interest.

IPC 8 full level

G05B 23/02 (2006.01); **G06V 10/426** (2022.01)

CPC (source: EP US)

G05B 15/02 (2013.01 - EP); **G05B 19/0426** (2013.01 - EP US); **G05B 23/0216** (2013.01 - EP); **G06F 18/2323** (2023.01 - EP); **G06N 20/00** (2018.12 - EP); **G06V 10/426** (2022.01 - EP US); **G06V 10/457** (2022.01 - EP US); **Y02P 90/02** (2015.11 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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