

Title (en)  
METHODS AND SYSTEMS OF SPATIOTEMPORAL PATTERN RECOGNITION FOR VIDEO CONTENT DEVELOPMENT

Title (de)  
VERFAHREN UND SYSTEME ZUR RÄUMLICH-ZEITLICHEN MUSTERERKENNUNG FÜR DIE ENTWICKLUNG VON VIDEOINHALTEN

Title (fr)  
PROCÉDÉS ET SYSTÈMES DE RECONNAISSANCE DE MOTIF SPATIOTEMPOREL POUR UN DÉVELOPPEMENT DE CONTENU VIDÉO

Publication  
**EP 3513566 A4 20190911 (EN)**

Application  
**EP 17851597 A 20170915**

Priority

- US 201662395886 P 20160916
- US 201715586379 A 20170504
- US 201762532744 P 20170714
- US 2017051768 W 20170915

Abstract (en)  
[origin: WO2018053257A1] Providing enhanced video content includes processing at least one video feed through at least one spatiotemporal pattern recognition algorithm that uses machine learning to develop an understanding of a plurality of events and to determine at least one event type for each of the plurality of events. The event type includes an entry in a relationship library detailing a relationship between two visible features. Extracting and indexing a plurality of video cuts from the video feed is performed based on the at least one event type determined by the understanding that corresponds to an event in the plurality of events detectable in the video cuts. Lastly, automatically and under computer control, an enhanced video content data structure is generated using the extracted plurality of video cuts based on the indexing of the extracted plurality of video cuts.

IPC 8 full level  
**H04N 21/466** (2011.01); **G06N 99/00** (2019.01); **H04N 21/234** (2011.01); **H04N 21/25** (2011.01); **H04N 21/4223** (2011.01); **H04N 21/434** (2011.01); **H04N 21/44** (2011.01); **H04N 21/45** (2011.01)

CPC (source: EP)  
**G06N 7/01** (2023.01); **G06N 20/10** (2018.12); **G06N 20/20** (2018.12); **H04N 21/21805** (2013.01); **H04N 21/2187** (2013.01); **H04N 21/23418** (2013.01); **H04N 21/251** (2013.01); **H04N 21/466** (2013.01); **H04N 21/4725** (2013.01); **H04N 21/8126** (2013.01); **H04N 21/84** (2013.01); **G06F 16/783** (2018.12); **G06V 20/44** (2022.01)

Citation (search report)

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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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