Title (en)

TECHNIQUES FOR ANALYZING AND DETECTING EXECUTIONAL ARTIFACTS IN MICROWELL PLATES

Title (de)

TECHNIKEN ZUR ANALYSE UND ERKENNUNG VON AUSFÜHRUNGSARTEFAKTEN IN MIKROTITERPLATTEN

Title (fr)

TECHNIQUES D'ANALYSE ET DE DÉTECTION D'ARTÉFACTS D'EXÉCUTION DANS DES PLAQUES DE MICROPUITS

Publication

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Application

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Abstract (en)

[origin: WO2022026226A1] In various embodiments, an experiment analysis application detects executional artifacts in experiments involving microwell plates. The experiment analysis application computes one or more sets of spatial features based on one or more heat maps associated with a microwell plate. The experiment analysis application then aggregates the set(s) of spatial features to generate a feature vector. The experiment analysis application inputs the feature vector into a trained classifier. In response, the trained classifier generates a label indicating that the microwell plate is associated with a first executional artifact.

IPC 8 full level

G06V 10/52 (2022.01); **G06T 7/00** (2017.01); **G06V 10/42** (2022.01); **G06V 10/774** (2022.01); **G06V 10/80** (2022.01)

CPC (source: EP IL)

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Citation (search report)

- [IY] US 2020202508 A1 20200625 - AMTHOR MANUEL [DE], et al
- [Y] US 2006039593 A1 20060223 - SAMMAK PAUL [US], et al
- [A] US 2014233797 A1 20140821 - HODDER PETER [US], et al
- [A] PAUL J. BUSHWAY: "Optimization and Application of Median Filter Corrections to Relieve Diverse Spatial Patterns in Microtiter Plate Data", SLAS DISCOVERY: ADVANCING LIFE SCIENCES R&D, vol. 16, no. 9, 1 October 2011 (2011-10-01), pages 1068 - 1080, XP093165447, ISSN: 2472-5552, Retrieved from the Internet <URL:https://dul.usage.elsevier.com/doi/> DOI: 10.1177/1087057111419028
- See also references of WO 2022026226A1

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