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- (71) Applicant: INTEL CORPORATION [US/US]; 2200 Mission College Boulevard, Santa Clara, California 95054 (US).
- (72) Inventor: HUANG, Yen-Min; 120 Felspar Way, Cary, North Carolina 27518 (US).
- (74) Agent: PERDOK, Monique M. et al.; Schwegman Lundberg & Woessner, P.A., P.O. Box 2938, Minneapolis, Minnesota 55402 (US).
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(54) Title: AUTOMATED GENERATION OF WORKFLOWS

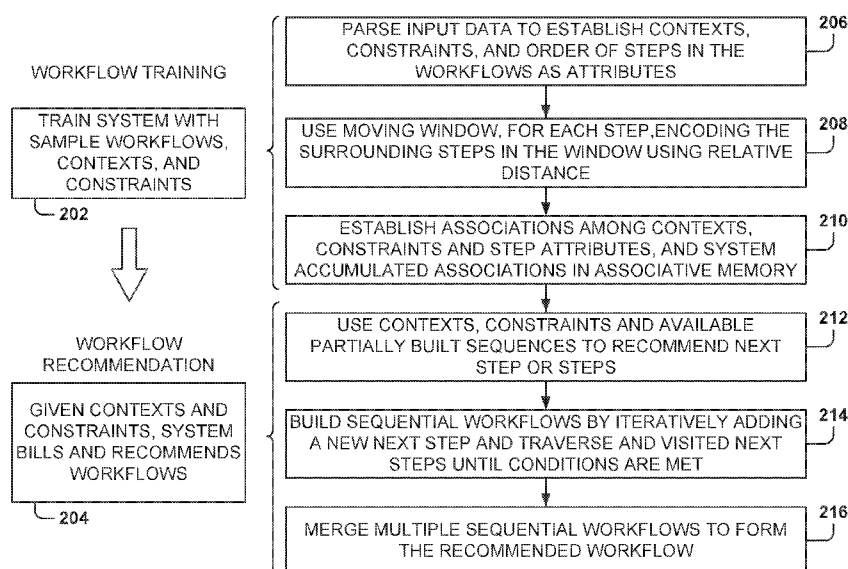


FIG. 2

(57) **Abstract:** Methods, systems, and computer programs are presented for generating workflows, by a computer program, for a desired task. One system includes a workflow engine and a workflow recommender. The workflow engine is to train a machine-learning algorithm (MLA) utilizing a plurality of learning sequences, each learning sequence comprising a learning context, at least one learning step, and a learning result; receive a workflow definition that includes at least one input context and a desired result, the input context including at least one input constraint; generate, utilizing the MLA, at least one result sequence that implements the workflow definition, each result sequence including a plurality of steps; and select one of the at least one result sequence. The workflow recommender is to cause the selected result sequence to be presented on a display.

SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2017/053622**A. CLASSIFICATION OF SUBJECT MATTER****G06Q 10/06(2012.01)i, G05B 19/418(2006.01)i, G06N 3/08(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
G06Q 10/06; G06F 9/44; G06F 9/46; G06Q 10/00; G06F 15/18; G05B 19/418; G06N 3/08Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility modelsElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: workflow, recommendation, sequence, context, machine-learning algorithm**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2014-0207506 A1 (SALESFORCE.COM, INC.) 24 July 2014 See paragraphs [0028], [0030], [0165], [0172], [0200], claims 17-18 and figures 7, 9.	1-25
Y	US 2009-0307162 A1 (HUNG BUI et al.) 10 December 2009 See paragraphs [0019], [0036]-[0037], claims 1, 6-7, 29 and figure 1.	1-25
Y	US 2014-0164048 A1 (XEROX CORPORATION) 12 June 2014 See paragraphs [0023], [0071], [0124] and claim 1 and figure 7.	2, 12, 23
A	US 2009-0113394 A1 (INGO WEBER et al.) 30 April 2009 See claims 1-3 and figures 1-3, 12.	1-25
A	US 2008-0281659 A1 (MATTHIAS KLOPPMANN et al.) 13 November 2008 See claims 11-15 and figures 2-6.	1-25



Further documents are listed in the continuation of Box C.



See patent family annex.

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"&" document member of the same patent family

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189 Cheongsa-ro, Seo-gu, Daejeon, 35208, Republic of Korea



Facsimile No. +82-42-481-8578

Authorized officer

KANG, Min Jeong

Telephone No. +82-42-481-8131



INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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