



Europäisches  
Patentamt  
European  
Patent Office  
Office européen  
des brevets

## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 22 74 66 71

**Classification of the application (IPC):**  
G06N 3/00, G06N 3/08, G06N 3/04, H04L 41/14, H04L 41/16, H04L 41/40

**Technical fields searched (IPC):**  
H04L

### DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	<b>YU CHANGHE ET AL:</b> "DROM: Optimizing the Routing in Software-Defined Networks With Deep Reinforcement Learning" <i>IEEE ACCESS</i> , 23 October 2018 (2018-10-23), vol. 6, DOI: 10.1109/ACCESS.2018.2877686, pages 64533-64539, XP011697994 * abstract; figures 1-4 * * paragraphs [0II.], [III.], [0IV.], [00V.], [0VI.], [VII.] *	1-15
A	<b>MORATO ALBERTO ET AL:</b> "A Profinet Simulator for the Digital Twin of Networked Electrical Drive Systems" <i>2020 25TH IEEE INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES AND FACTORY AUTOMATION (ETFA), IEEE</i> , 08 September 2020 (2020-09-08), vol. 1, DOI: 10.1109/ETFA46521.2020.9212017, pages 1099-1102, XP033835675 * abstract; figure 8 * * paragraphs [III.], [00V.] *	1-15
A	<b>LI-QIONG DENG ET AL:</b> "Design of architecture and function for distributed communication network simulation training system (DCSS)" <i>2016 FIRST IEEE INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION AND THE INTERNET (ICCCI), IEEE</i> , 13 October 2016 (2016-10-13), DOI: 10.1109/CCI.2016.7778888, ISBN: 978-1-4673-8514-5, pages 108-111, XP033019419 * the whole document *	1-15
A	<b>YAO ZAN ET AL:</b> "DQN-based energy-efficient routing algorithm in software-defined data centers" <i>INTERNATIONAL JOURNAL OF DISTRIBUTED SENSOR NETWORKS</i> , 01 June 2020 (2020-06-01), vol. 16, no. 6 URL: <a href="http://journals.sagepub.com/doi/full-xml/10.1177/1550147720935775">http://journals.sagepub.com/doi/full-xml/10.1177/1550147720935775</a> , ISSN: 1550-1477, XP055953816 * the whole document *	1-15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 24 October 2024	Examiner Fantacone, Vincenzo
------------------------------	---	---------------------------------

### CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.