Research Methodology in Computer Science

Using Digital Library

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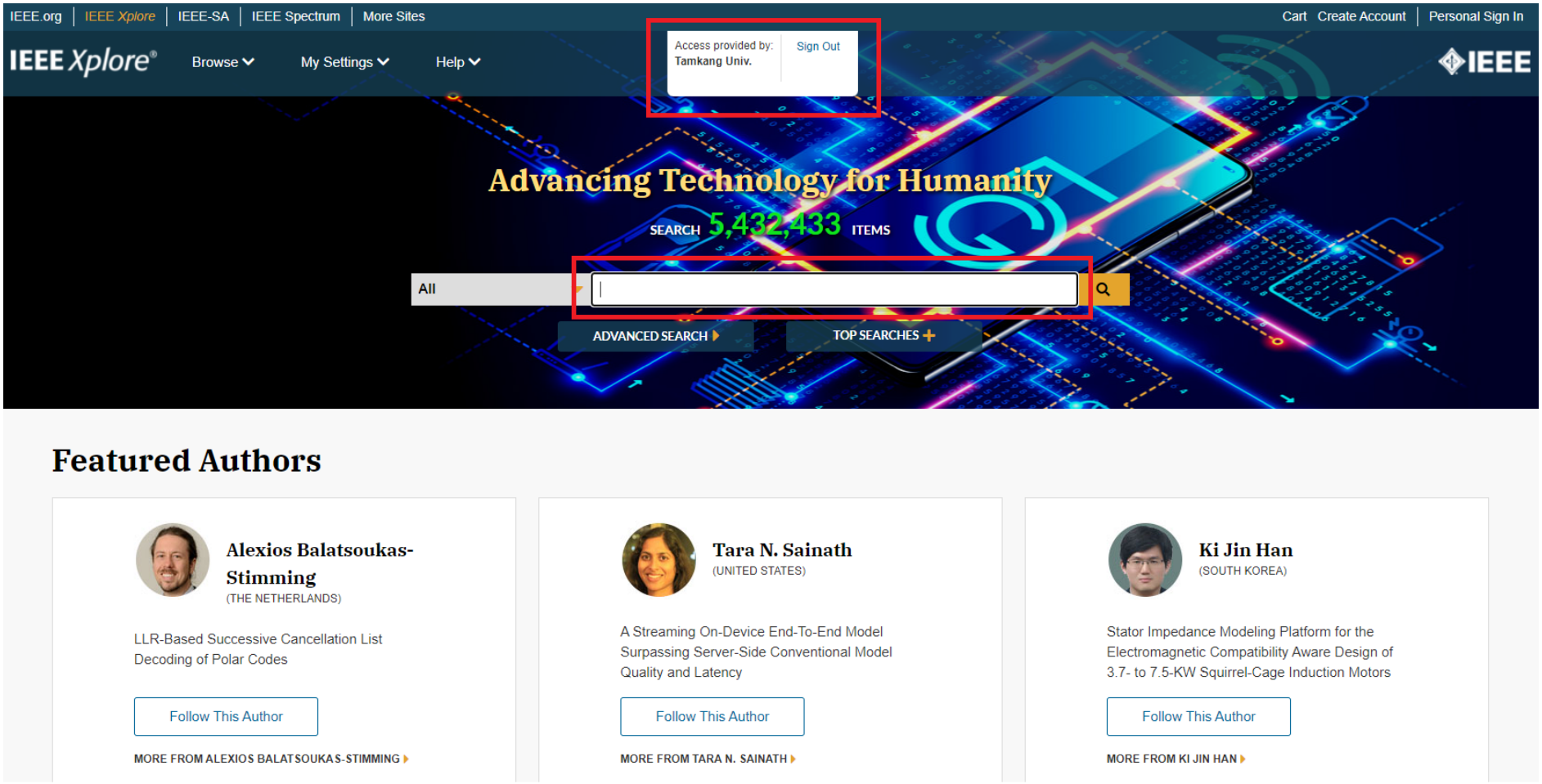
October 2021

Digital Libraries

- IEEE Xplore: https://ieeexplore.ieee.org/
- ACM DL: https://dl.acm.org/ (Not Available in TKU)
- TKU Library: https://info.lib.tku.edu.tw/database/en/

IEEE Xplore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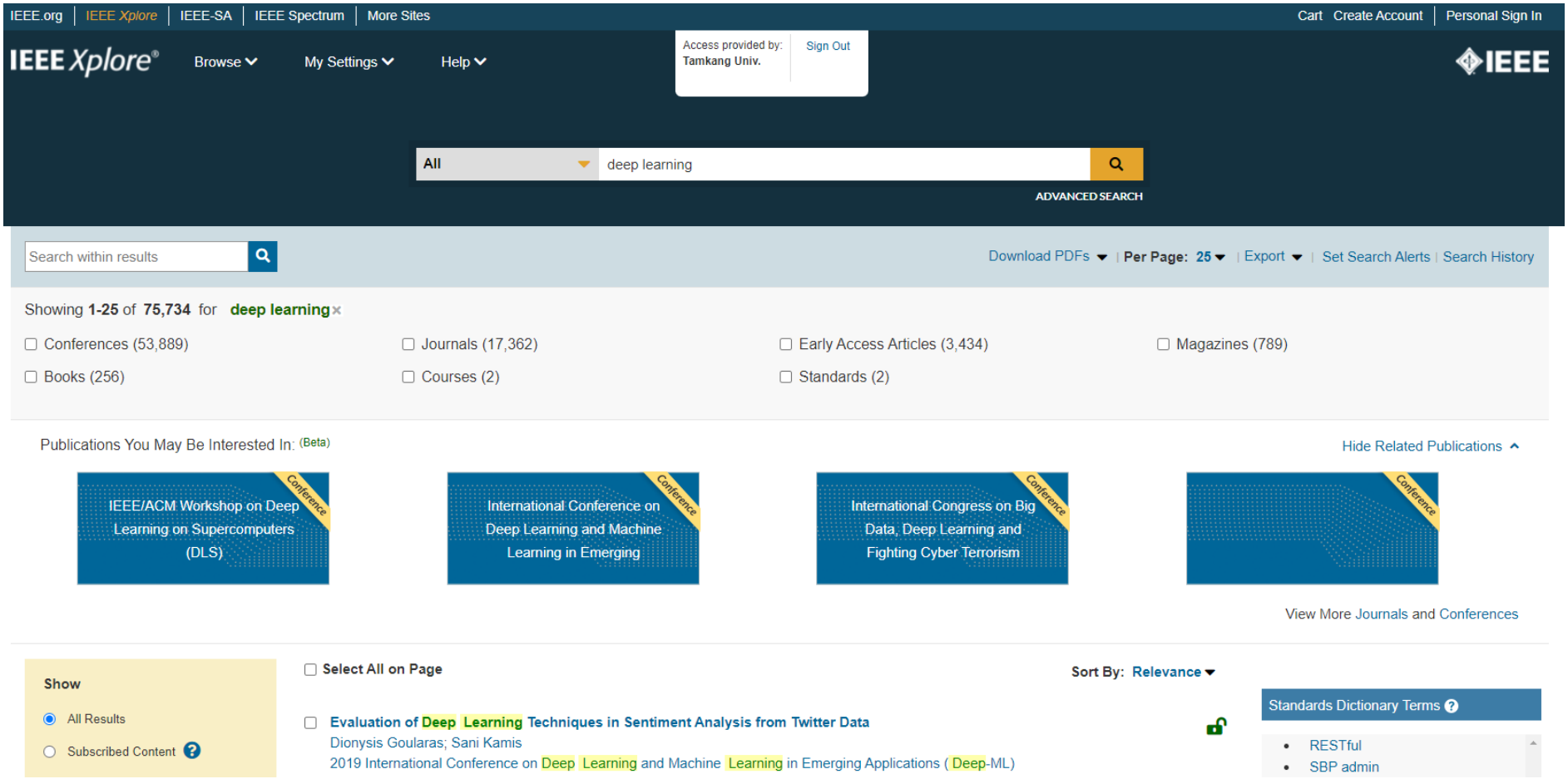
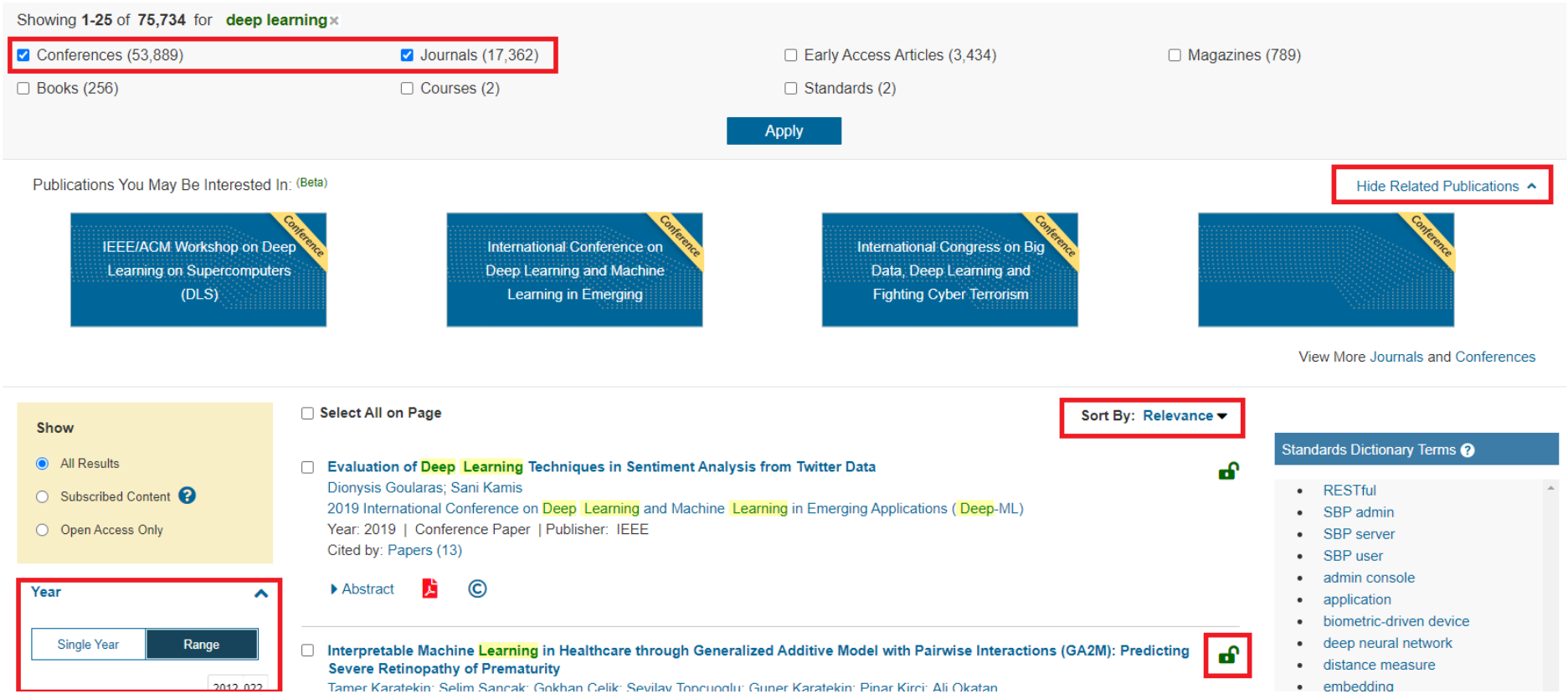
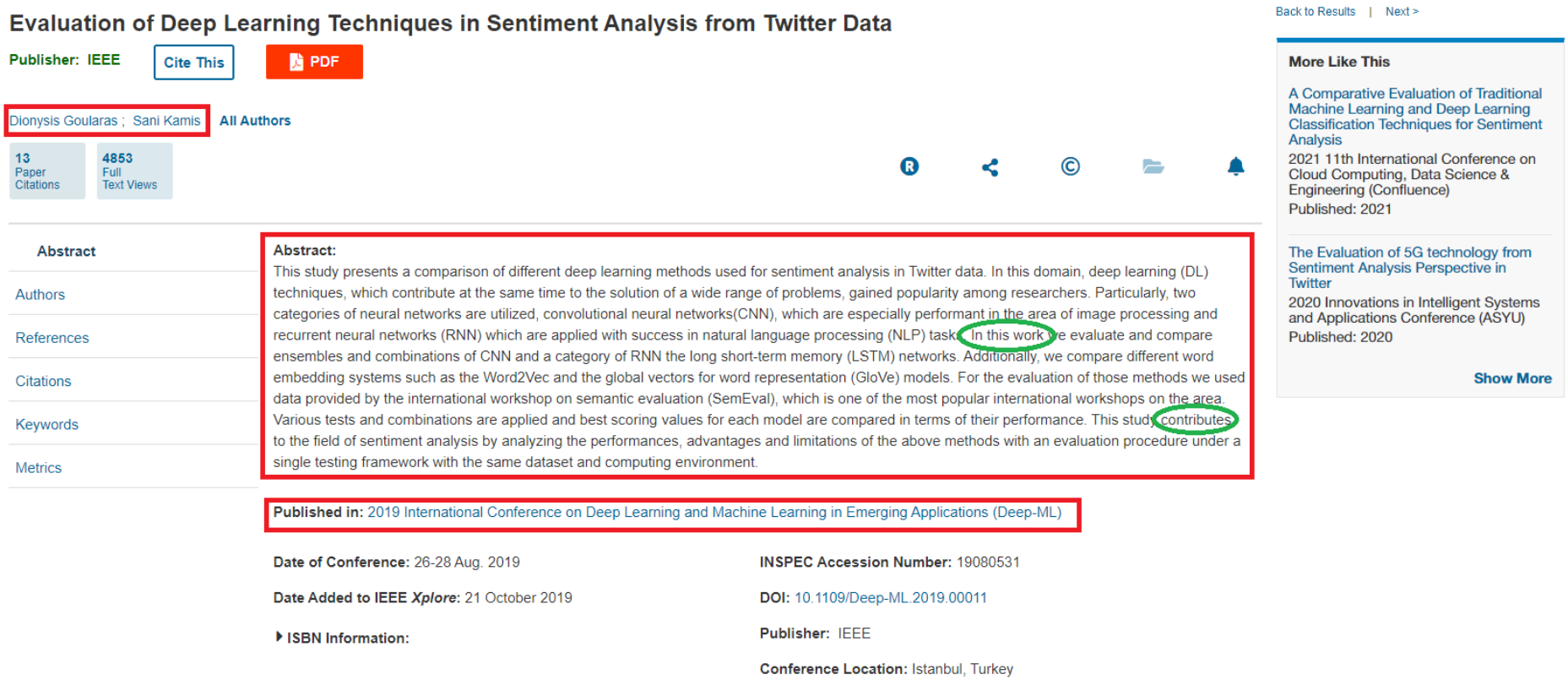


Example: Deep Learning

Filter the papers by Year, Publications



Example: Conference Papers



Evaluation of Deep Learning Techniques in Sentiment Analysis from Twitter Data

Publisher: IEEE | Cite This | PDF

Dionysis Goularas ; Sani Kamis | All Authors

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Abstract:
This study presents a comparison of different deep learning methods used for sentiment analysis in Twitter data. In this domain, deep learning (DL) techniques, which contribute at the same time to the solution of a wide range of problems, gained popularity among researchers. Particularly, two categories of neural networks are utilized, convolutional neural networks(CNN), which are especially performant in the area of image processing and recurrent neural networks (RNN) which are applied with success in natural language processing (NLP) tasks. In this work we evaluate and compare ensembles and combinations of CNN and a category of RNN the long short-term memory (LSTM) networks. Additionally, we compare different word embedding systems such as the Word2Vec and the global vectors for word representation (GloVe) models. For the evaluation of those methods we used data provided by the international workshop on semantic evaluation (SemEval), which is one of the most popular international workshops on the area. Various tests and combinations are applied and best scoring values for each model are compared in terms of their performance. This study contributes to the field of sentiment analysis by analyzing the performances, advantages and limitations of the above methods with an evaluation procedure under a single testing framework with the same dataset and computing environment.

Published in: 2019 International Conference on Deep Learning and Machine Learning in Emerging Applications (Deep-ML)

Date of Conference: 26-28 Aug. 2019

Date Added to IEEE *Xplore*: 21 October 2019

ISBN Information:

INSPEC Accession Number: 19080531

DOI: 10.1109/Deep-ML.2019.00011

Publisher: IEEE

Conference Location: Istanbul, Turkey

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A Comparative Evaluation of Traditional Machine Learning and Deep Learning Classification Techniques for Sentiment Analysis
2021 11th International Conference on Cloud Computing, Data Science & Engineering (Confluence)
Published: 2021

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Published: 2020

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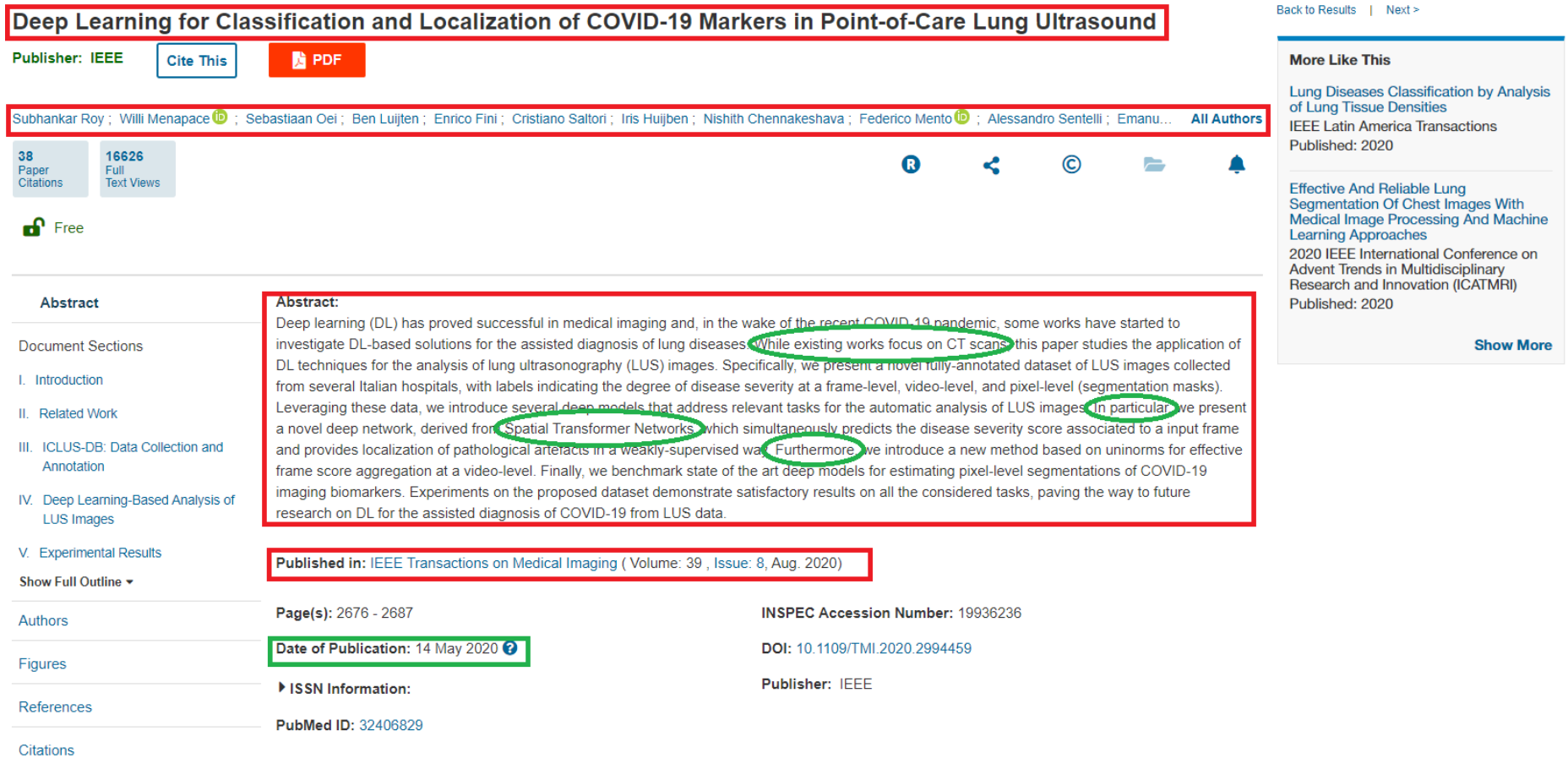
Example: Journal Papers



Deep Learning for Classification and Localization of COVID-19 Markers in Point-of-Care Lung Ultrasound

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Abstract

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I. Introduction
II. Related Work
III. ICLUS-DB: Data Collection and Annotation
IV. Deep Learning-Based Analysis of LUS Images
V. Experimental Results
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Abstract:
Deep learning (DL) has proved successful in medical imaging and, in the wake of the recent COVID-19 pandemic, some works have started to investigate DL-based solutions for the assisted diagnosis of lung diseases. While existing works focus on CT scans, this paper studies the application of DL techniques for the analysis of lung ultrasonography (LUS) images. Specifically, we present a novel fully-annotated dataset of LUS images collected from several Italian hospitals, with labels indicating the degree of disease severity at a frame-level, video-level, and pixel-level (segmentation masks). Leveraging these data, we introduce several deep models that address relevant tasks for the automatic analysis of LUS images. In particular, we present a novel deep network, derived from Spatial Transformer Networks, which simultaneously predicts the disease severity score associated to a input frame and provides localization of pathological artefacts in a weakly-supervised way. Furthermore, we introduce a new method based on uninorms for effective frame score aggregation at a video-level. Finally, we benchmark state of the art deep models for estimating pixel-level segmentations of COVID-19 imaging biomarkers. Experiments on the proposed dataset demonstrate satisfactory results on all the considered tasks, paving the way to future research on DL for the assisted diagnosis of COVID-19 from LUS data.

Published in: IEEE Transactions on Medical Imaging (Volume: 39 , Issue: 8, Aug. 2020)

Page(s): 2676 - 2687

Date of Publication: 14 May 2020

ISSN Information:

PubMed ID: 32406829

INSPEC Accession Number: 19936236

DOI: 10.1109/TMI.2020.2994459

Publisher: IEEE

How to evaluate the quality of a paper

- Experience
- Reputation of the conference or journal
  - Journal: JCR impact factor ONLY for reference
  - Conference: Top Computer Science Conferences
- The title: (Clear? Clickbait?)
- The authors: (Number, Institution, Appropriate)
- Read the abstract: Read the keywords(not the keywords provided by the authors)

Impact factor

The Impact Factor is calculated by dividing the number of citations in the JCR year by the total number of articles published in the two previous years.

Question

What factors will affect the IF of a journal?

- The quality of papers
- The novelity of the papers
- The policies

Keywords

Three types of keywords:

- The keywords provided by the authors:
  - Research fields
  - Methods/Algorithms
  - Terminologies
- Transition words
  - however
  - while
  - nevertheless
  - nonetheless
- Other works:
  - previous
  - exisitng