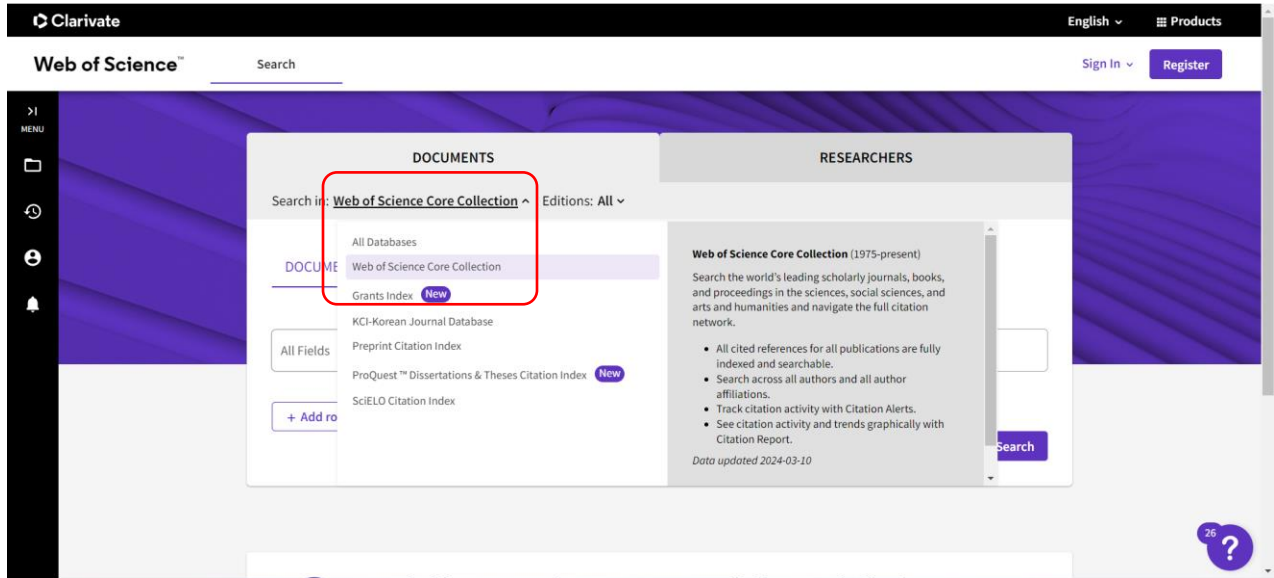
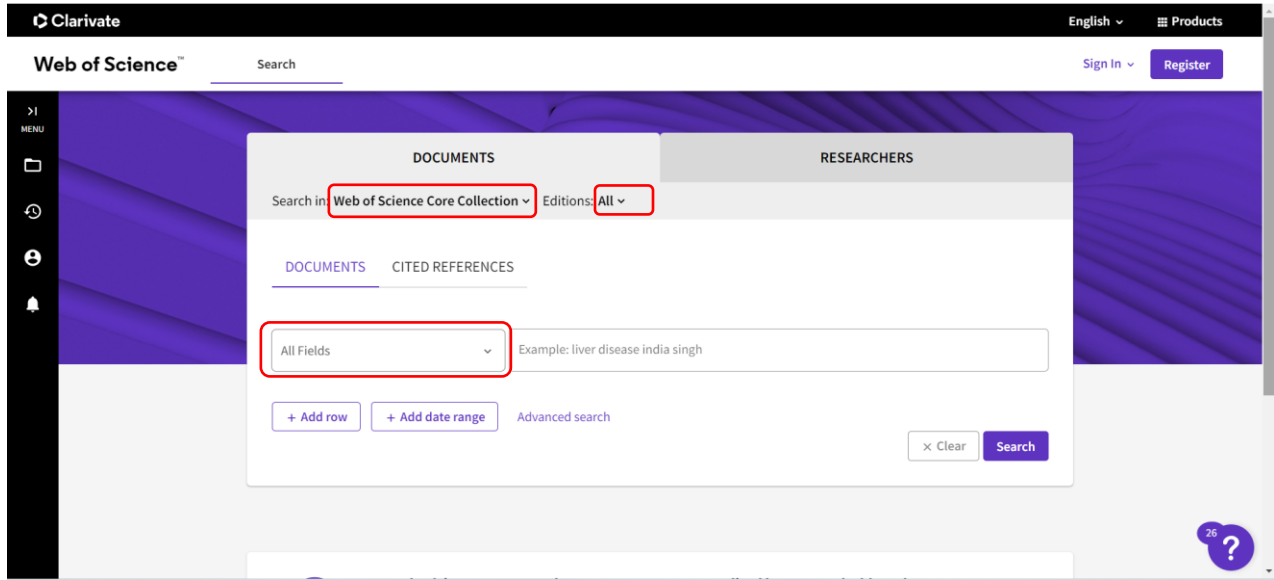
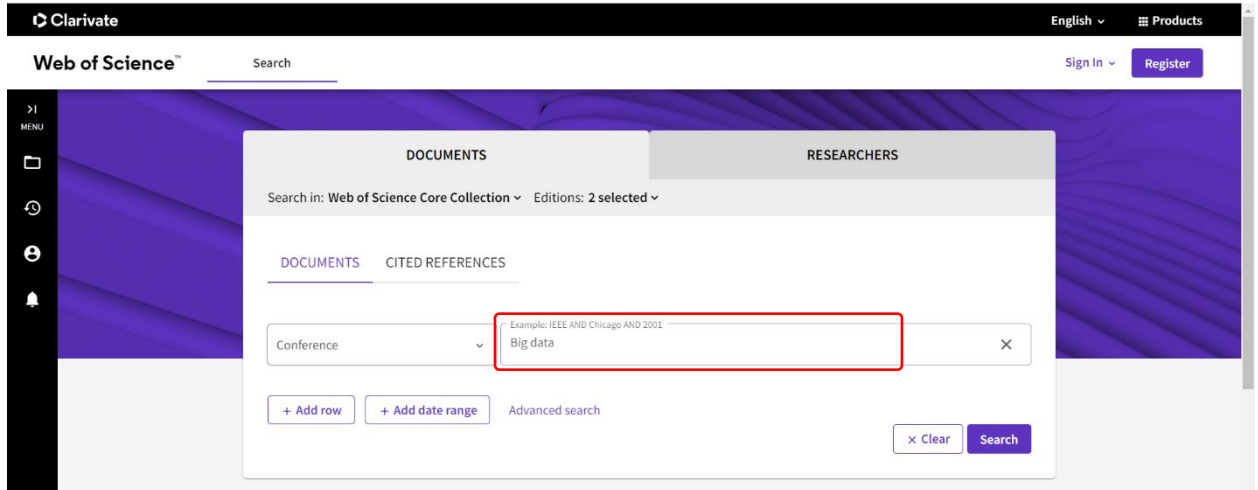
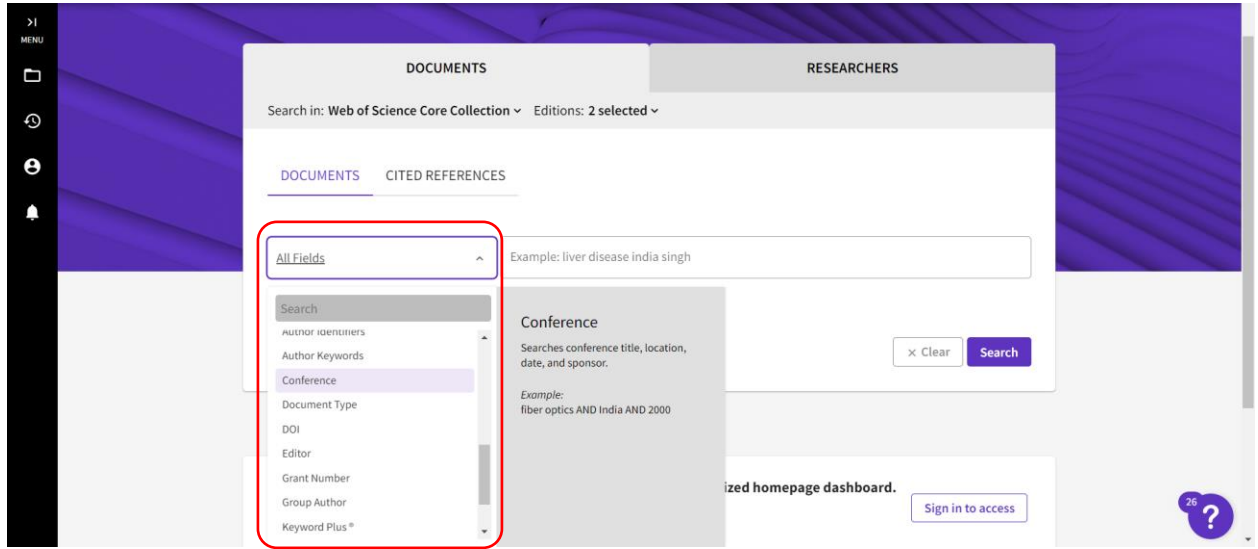
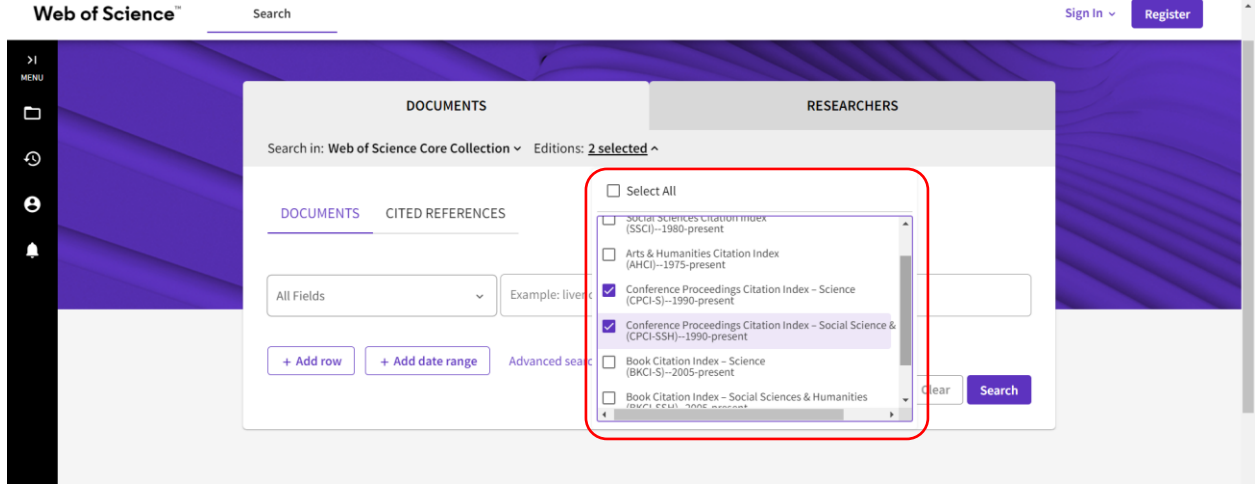


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☐ 1 AutoML for Stream k -Nearest Neighbors Classification[Bahri, M; Veloso, B; \(-\); Gama, J](#)

8th IEEE International Conference on Big Data (Big Data)

2020 | 2020 IEEE INTERNATIONAL CONFERENCE ON BIG DATA (BIG DATA) , pp.597-602

The last few decades have witnessed a significant evolution of technology in different domains, changing the way the world operates, which leads to an overwhelming amount of data generated in an open-ended way as streams. Over the past years, we observed the development of several machine learning algorithms to process big data streams. However, the accuracy of these algorithms is very sensitive to the data distribution. In this paper, we propose a novel AutoML framework for stream k -nearest neighbors classification. The proposed framework automatically selects the best machine learning algorithm for each data stream. The experimental results show that the proposed framework outperforms the state-of-the-art methods. [Show more](#)

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☐ 2 Deep Learning Predicts Protein-Ligand Interactions[Balma, J; Vose, AD; \(-\); Sankaranarayanan, SR](#)

8th IEEE International Conference on Big Data (Big Data)

2020 | 2020 IEEE INTERNATIONAL CONFERENCE ON BIG DATA (BIG DATA) , pp.5627-5629

This paper presents results from a rapid-response industry-academia collaboration for virtual screening of chemical, natural and virtual drug ligands towards identifying potential therapeutics for COVID-19. Compared to resource-intensive traditional approaches of either conducting high-throughput screening in a lab or in-silico molecular dynamics simulations on supercomputers, we have developed a deep learning model for predicting protein-ligand interactions. The model is trained on a large dataset of protein-ligand complexes and is able to predict the binding affinity of a given ligand to a given protein. [Show more](#)

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8th IEEE International Conference on Big Data (Big Data)

2020 | 2020 IEEE INTERNATIONAL CONFERENCE ON BIG DATA (BIG DATA) , pp.246-255

There has been a substantial growth in remotely sensed hyperspectral satellite imagery. These data offer opportunities to understand phenomena and inform decision making. The nature of these collections introduces challenges stemming from their volumes, variety, and spatiotemporal resolutions. The crux of this study is to facilitate effective training of deep learning models over satellite data. In this paper, we propose a lightweight, embeddings based storage and model construction framework for satellite data collections. The framework is able to store and retrieve data efficiently and construct models that are able to handle the challenges of satellite data. [Show more](#)

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8th IEEE International Conference on Big Data (Big Data)

2020 | 2020 IEEE INTERNATIONAL CONFERENCE ON BIG DATA (BIG DATA) , pp.4509-4518

Outlier detection has become one of the core tasks in spatio-temporal data mining. It plays an essential role in data quality improvement for the machine learning models and recognizing the anomalous patterns, which may remarkably deviate from expected patterns among the trajectory datasets. In this work, we propose a clustering-based technique to detect local outliers in trajectory datasets by leveraging the spatial and temporal information. The proposed method is able to detect outliers in trajectory datasets by leveraging the spatial and temporal information. [Show more](#)

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8th IEEE International Conference on Big Data (Big Data)

2020 | 2020 IEEE INTERNATIONAL CONFERENCE ON BIG DATA (BIG DATA) , pp.266-275

One of the key challenges for data analytics deployment is configuration tuning. The existing approaches for configuration tuning are expensive and overlook the dynamic characteristics of the analytics environment (i.e. frequent changes in workload due to receiving evolving input sizes or change in the underlying cluster environment). Such workload/environment changes can cause significant performance degradation. In this paper, we propose a similarity-aware multitask Bayesian optimization framework for accelerating the configuration tuning of big data analytics. The proposed framework is able to accelerate the configuration tuning process by leveraging the similarity between different configurations. [Show more](#)

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8th IEEE International Conference on Big Data (Big Data)

2020 | 2020 IEEE INTERNATIONAL CONFERENCE ON BIG DATA (BIG DATA) , pp.2654-2663

Due to I/O bandwidth limitations, intelligent in situ data reduction methods are needed to enable post-hoc workflows. Current state-of-the-art sampling methods save data points if they deem them spatially or temporally important. By analyzing the properties of the data values at each time-step, two consecutive steps may be very similar. This research follows the notion that if neighboring time-steps are very similar, then the data points in those time-steps can be safely removed. [Show more](#)

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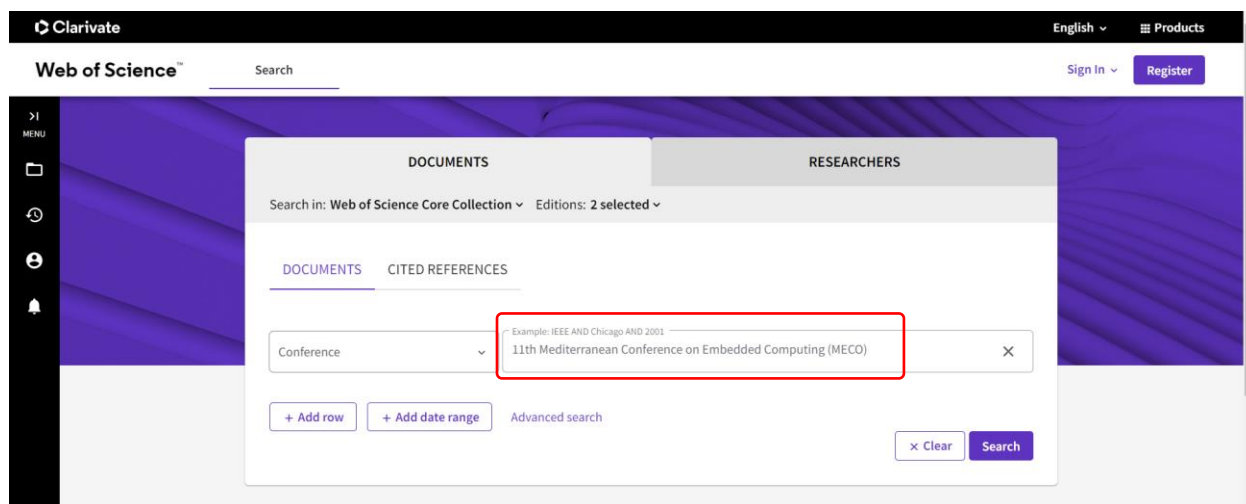
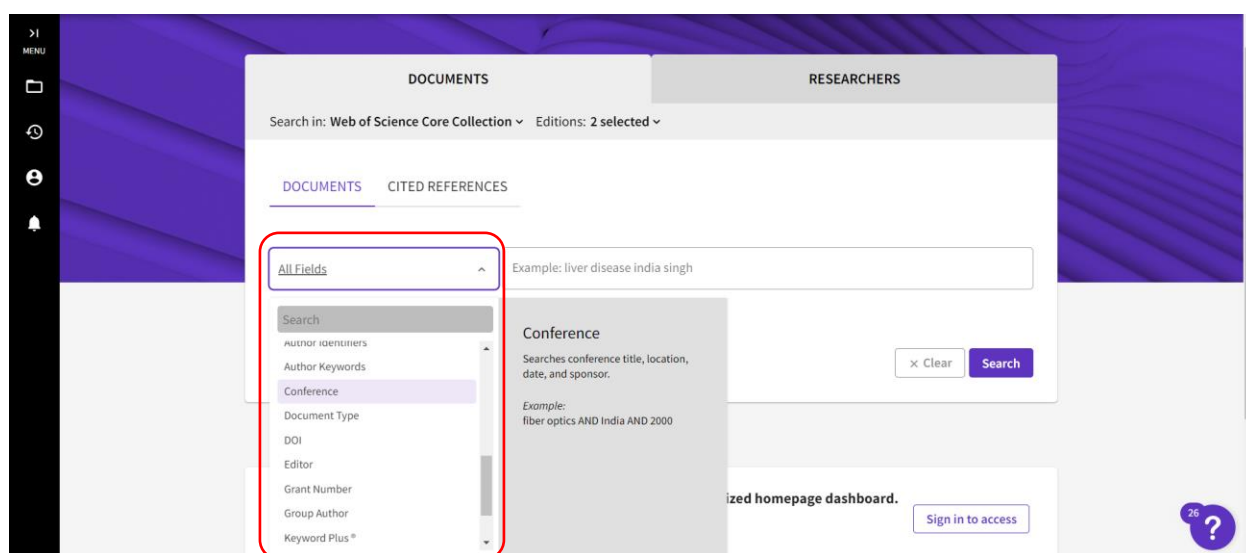
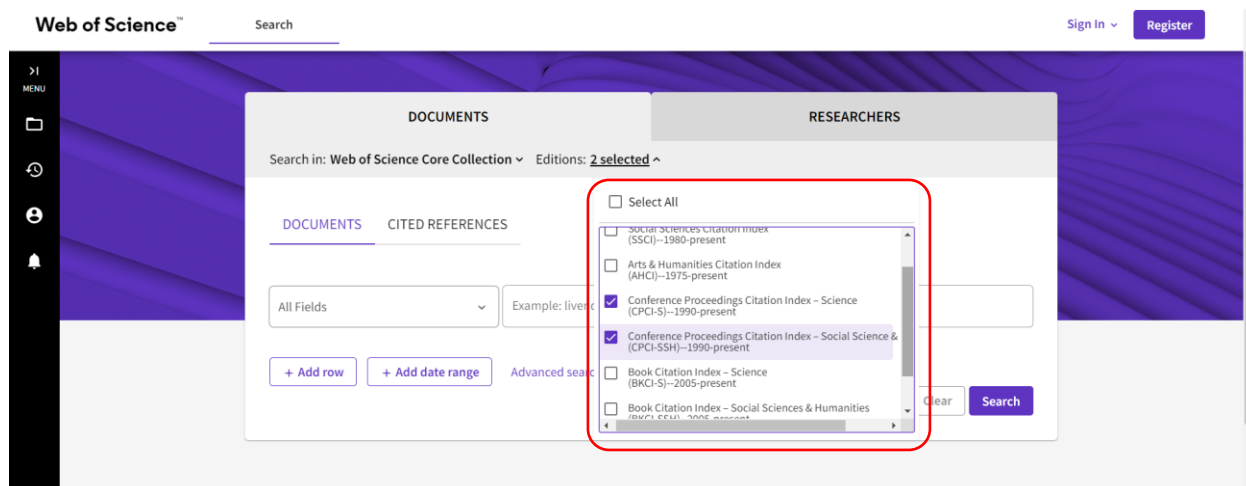
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The paper considers the issues of constructing an energy-efficient message routing procedure in a network of autonomous underwater vehicles. Information interaction between network agents is carried out using underwater sound communication, the feature of which is non-directional signal emission, a speed limit (kilobits per second) and a limitation of the exchange radius. The distance restricti ... [Show more](#)

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Flower Recognition System with Optimized Features for Deep Features

Kursun, R; Cinar, I; ...; Koklu, M
11th Mediterranean Conference on Embedded Computing (MECO) / 3rd Summer School on Cyber-Physical + Systems and Internet of Things (CPS and IoT)
2022 | 2022 11TH MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO) , pp.635-638

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Looking at nature, flowers are everywhere. Classification is a difficult task, as the flowers have a large number of species that are very similar to each other in shape, appearance and color. Classification of flowers can be used in various fields of application such as product monitoring, flower identification, medicinal flowers, floriculture industry, plant taxonomy. In the study, a dataset ... [Show more](#)

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Superscalar Out-of-Order RISC-V ASIP Based on Programmable Hardware Generator with Decoupled Computations and Flow Control

Antonov, A
11th Mediterranean Conference on Embedded Computing (MECO) / 3rd Summer School on Cyber-Physical + Systems and Internet of Things (CPS and IoT)
2022 | 2022 11TH MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO) , pp.155-158

The research deals with limitations of common hardware description languages in abstraction and explicit implementation of generic microarchitectural mechanisms. Original hardware generator for superscalar processors with out-of-order (OoO) execution is proposed. This generator provides orthogonalization of selected microarchitectural mechanisms, including computations in execution units, trans ... [Show more](#)

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Flower Recognition System with Optimized Features for Deep Features

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Kursun, R (Kursun, Ramazan) ^[1] ; Cinar, I (Cinar, Ilkay) ^[2] ; Taspinar, YS (Taspinar, Y. Selim) ^[3] ; Koklu, M (Koklu, Murat) ^[2]

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