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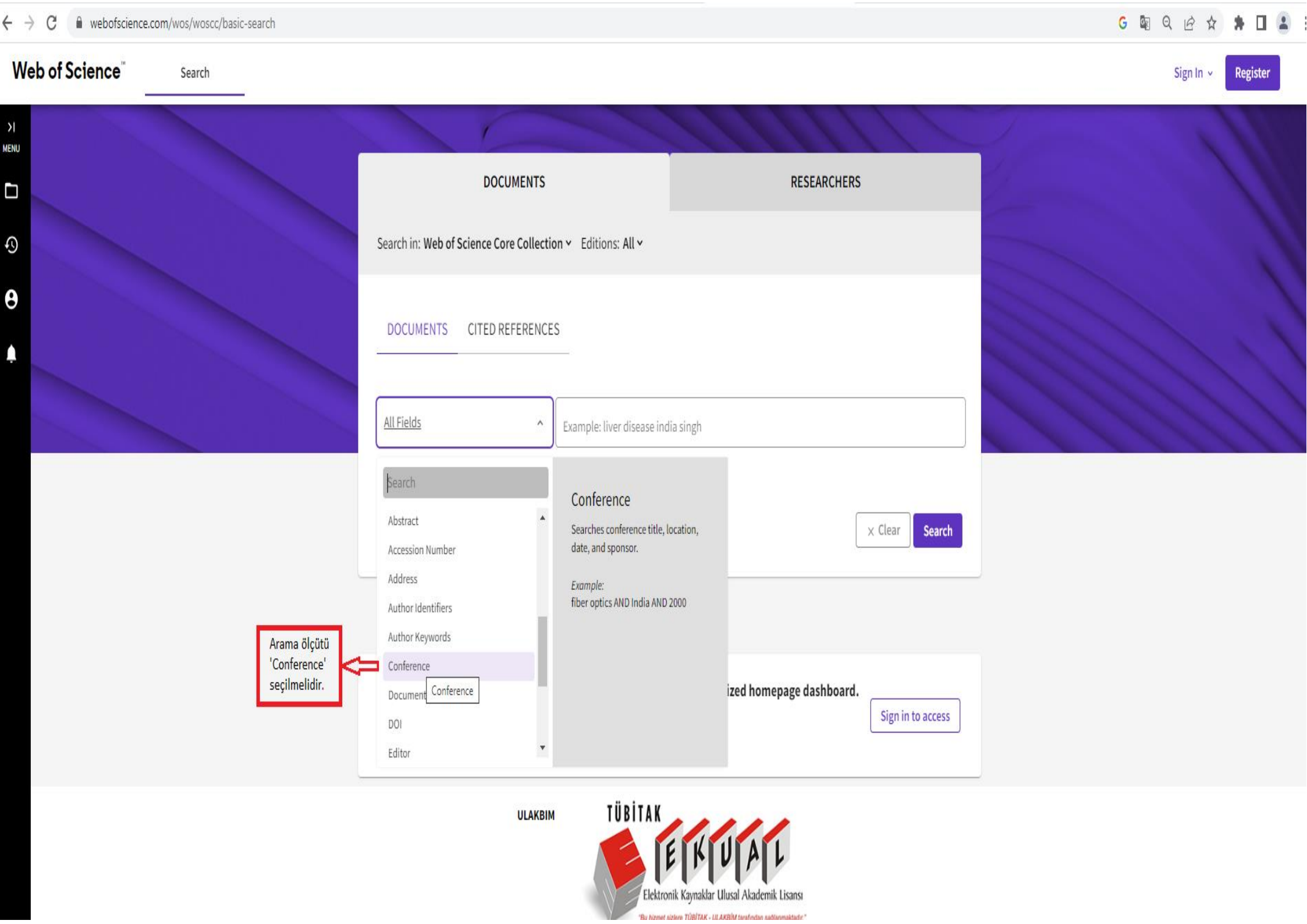
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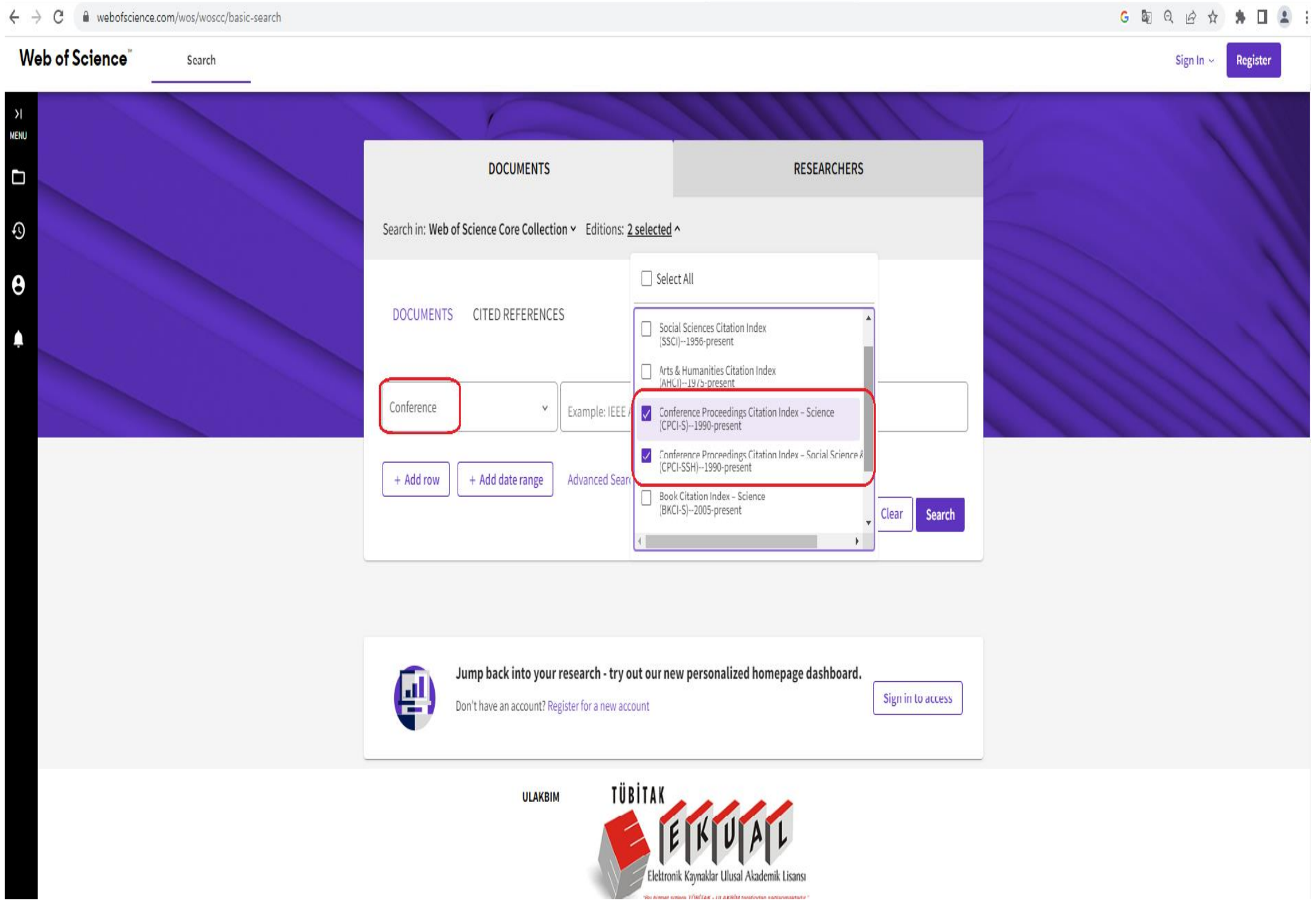
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This paper proposes a method of using multiple spacecraft flying in formation in an artificially reduced halo orbit around the 2nd Lagrange point in the Sun-Earth system (SEL2) to make interferometric observations. One of the requirements for interferometric observations is to collect baseline vectors between telescopes or antennas. A shape-based approach is introduced to design a formation fli ... Show more

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Date: OCT 25-29, 2021

Abstract:

This paper proposes a method of using multiple spacecraft flying in formation in an artificially reduced halo orbit around the 2nd Lagrange point in the Sun-Earth system (SEL2) to make interferometric observations. One of the requirements for interferometric observations is to collect baseline vectors between telescopes or antennas. A shape-based approach is introduced to design a formation flight orbit that spirally spreads to satisfy this requirement. In this approach, orbits are designed on the basis of a linear theory. However, the formation orbits based on the linear theory quickly diverge because of the unstable dynamics around the SEL2. Therefore, the state-dependent Riccati equation, which allows for nonlinear control, is applied to orbit maintenance. The control system consists of two components: one for maintaining the reference orbit around the SEL2 and the other for controlling the relative position between the multiple spacecraft. The performance of the developed formation flight system is verified through a numerical simulation, confirming that the position accuracy requirement of the infrared interferometer is satisfied. It is also shown that both controls can be achieved with a low-thrust magnitude by using an electric propulsion system.

Keywords

Author Keywords: SEL2; Formation flight; Artificial halo orbit; Nonlinear control; Interferometer

Keywords Plus: LOW-THRUST; PERIODIC-ORBITS; SOLAR-SAIL; DESIGN; MISSION

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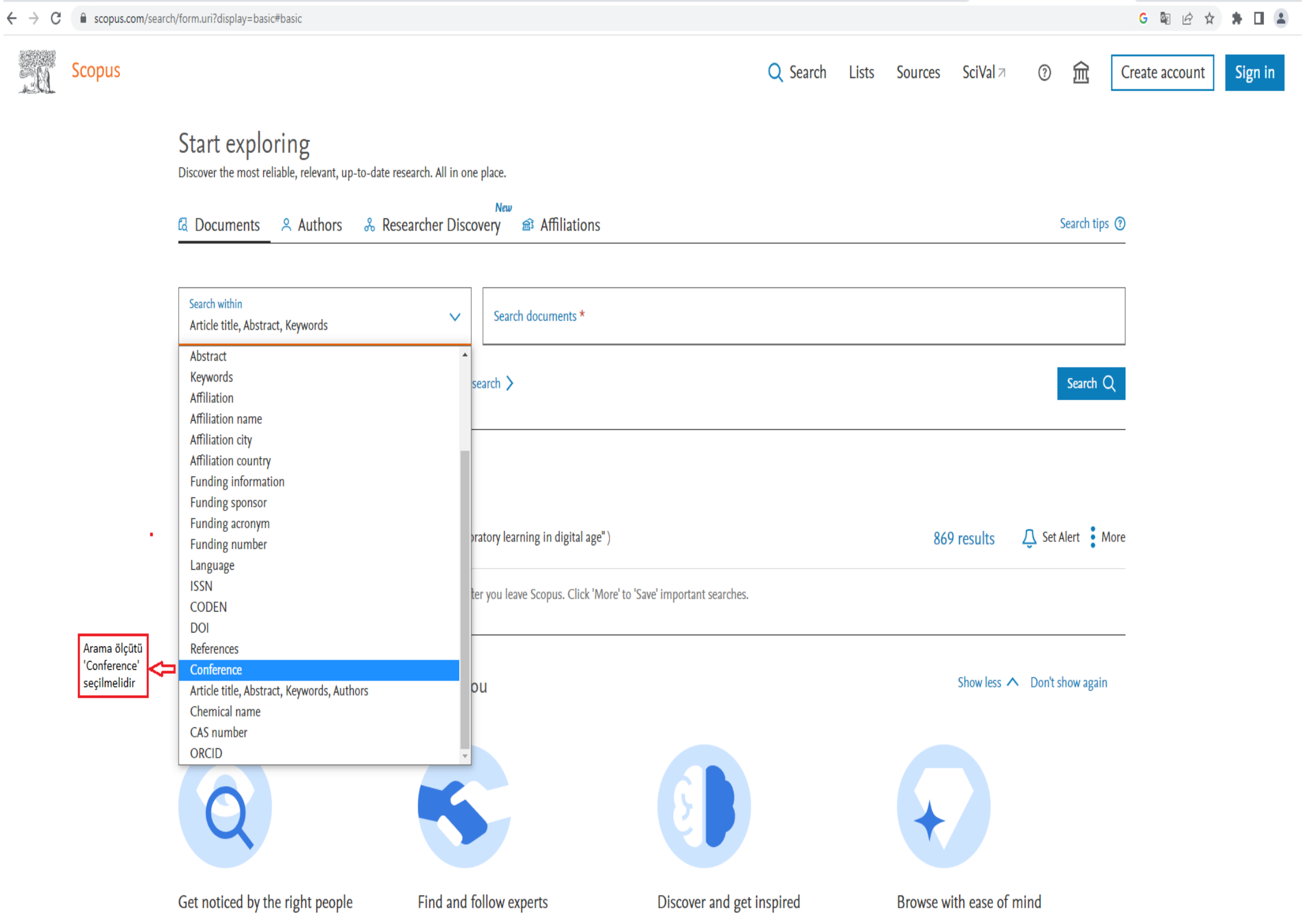
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Flexible Reconfiguration for Formation Flying Spacecraft with Fuel Balancing

Dharmarajan, Karthick

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Abstract

The concept of formation flying in spacecrafts is increasingly becoming a key technology that facilitate the realization of complex concepts that would have been impossible with single satellite missions. Such concepts include Multiple Spacecraft Interferometry, Space aperture telescopes using formation flying etc. Some of these formation flying missions are performed in orbits around Earth and some in Deep-Space. Quite a few of these missions incorporate multiple reconfiguration manoeuvres to complete their mission requirements. Unfortunately, due to the