**[Scientific Annals Analyzer](https://github.com/arobertogit/-ASET-Scientific-Annals-of-Computer-Science-research)**

Description

“Scientific Annals Analyzer” it’s an application that wants to successfully respond to different types of questions regarding with details associated with published articles in the “Scientific Annals of Computer Science”.  
 The application is an knowledge analyzer that wants to extract large amounts of data and store relevant information from it.  
 Based on these information, the application wants to successfully respond to questions such as:

* what is the most cited paper?
* what is the most cited author (assuming that an author may publish several papers in our annals)?
* how many distinct authors contributed to our annals?
* is there a pattern with regard to the journals citing us?
* do we receive citations only from computer science journals, or also from other domains?
* how many self-citations from the total number of citations?

The application will integrate a number of API methods which based on the parameters can send desired dates to the callers.  
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Actors

Other applications using the methods offered from the application can retrieve important data associated with various articles from “Scientific Annals of Computer Science” journal.

Implemented components

**Component 1**

- this is an application component that inspect all the papers published on "Scientific Annals of Computer Science" and retrieve the details associated with them and then store all the details in a CSV file.

**Component 2**

- this is an application component that inspect all the information stored in the CSV file provided by the “Component 1” and for each title will be made a “google scholar” query and will be gathered all the citations associated with each title and store the details in a second CSV file.

**Component 3**

- this is an application component that inspect all the information retreived and stored by the "Component 1" plus "Component 2" and manipulate this information for answering in a optimization way.

Utilisation cases  
  
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1. The user wants to call an application method to show the most cited first three publications.
2. The application will verify the method parameters and whether they are correct is returning data as required with a “202” as status code.

Extensions  
- in case of wrong parameters it will be returned a bad request “400” code  
- if the required dates are not found it will be return an error message.