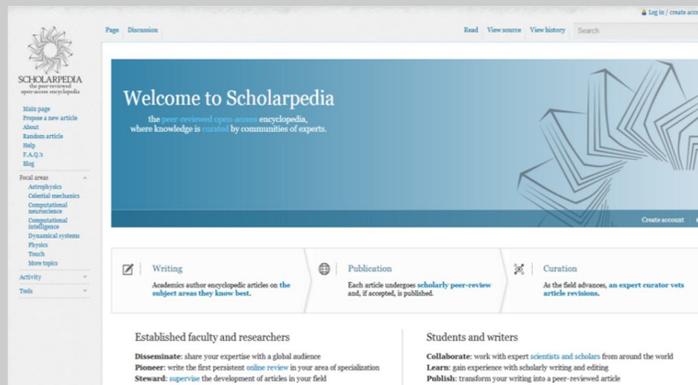


Home Page**Logo****URL**

http://www.scholarpedia.org/article/Main_Page

Subject

Science - Encyclopedias

Accessibility

Free

Language

English

Publisher

Sponsored by Editor-in-chief Dr. Eugene M. Izhikevich

Brief History

Scholarpedia was conceived by Dr. Eugene M. Izhikevich at the end of 2005, while he was contributing to Wikipedia. Up until October 20, 2011, Scholarpedia relied on its editors to identify and convince the top leading experts to contribute encyclopedic articles, and on its assistant editors to help the top experts with their articles. This resulted in nearly a thousand peer-reviewed articles in the field of dynamical systems, computational neuroscience, and physics. After October 20, 2011, a second method for articles to be created was deployed, allowing anyone to propose an article, but requiring that articles receive sponsorship to both reserve their topic and to publish it. Only Scholarpedia Editors and Curators are permitted to act as article sponsors.

Scope and Coverage

The encyclopedia covers following subjects Astrophysics (Cosmology, Stellar Astrophysics, Space Exploration etc.) Celestial mechanics (Astrometry, Galactic Dynamic etc.) Computational Neuroscience (Electrophysiology, Neuron, Brain Theory etc.), Computational Intelligence (Neuroscience, Graph Theory, Cognitive Science etc.), Dynamical systems (Topological Dynamics, Ergodic Theory, Hyperbolic Dynamics etc.), Physics (Coleman-Mandula theorem , Organic Superconductivity , Cosmic Topology etc.) etc.

Kind of Information

It provides peer reviewed articles which are openly accessible. Articles on various above mentioned topics are found here. Sub topics under broader categories are found through a click on the hyperlinks.

Brief description, history of a topic is present in the articles. Coloured images on topics, charts, graphs etc. are available where applicable.

Bibliography, internal references from this encyclopedia, external links, suggested reading, see also references and citations are also found after the articles.

As for example, in the article relating to the “Black Hole” one can find the following information regarding the topic along with coloured pictures, references and suggested reading:

1. Classical vs. relativistic black holes,
2. Stationary black holes,
3. Black hole parameters,
4. Dynamical black holes,
5. Astrophysical black holes,
6. Gravitational black holes.

Below the articles, sponsorship of the article and the acceptance date are also found. Every article is provided a DOI number under this encyclopedia which is found on the top side of the article.

Special Features

- ❖ It is a Wiki website. It brings together the world's most widely-recognized subject experts to write and curate or review articles that are updated periodically.
- ❖ Articles contain DOI numbers. When published it is assigned a DOI, and will then appear in that month's Scholarpedia Journal (ISSN 1941-6016).

- ❖ It provides access to information by email and print. It also has links to social networking sites, like Google+, Facebook, Twitter etc.
- ❖ The file type of images is mentioned there with their dimensions and name of the contributors.
- ❖ Clicking on the “magnifying glass” sign on the right side of the search bar one can find a larger window of search bar. This search bar provides the users options to search information from content pages. Provision for directly searching multimedia information is found in the search bar. Provisions for advance searching and searching any information all throughout the encyclopedia are also available here.
- ❖ This encyclopedia provides Fuzzy searching.
- ❖ There is link to encyclopedias which are published by Springer/Atlantis Press as printed volumes. The first printed volume was “Scholarpedia of Touch”.

Arrangement Pattern

Main or focal areas are arranged alphabetically in hyperlinked with their sub areas on the left side of the window. The sub areas under focal areas like sub areas under Astrophysics, Computational Neuroscience, Computational Intelligence, Dynamic Systems are not arranged alphabetically. But in the sub areas articles are arranged alphabetically. As for example: under the sub area named “Cosmology” following alphabetic list of articles are found:

- Cosmic Background Explorer (COBE)
- Cosmological Constant
- Dark Energy
- Gamma Ray Bursts Theory
- Wilkinson Microwave Anisotropy Probe (WMAP)
- Stellar astrophysics

Remarks

This encyclopedia is a good reference source for students, scholars and scientists. In achieving brief knowledge regarding various scientific topics, this encyclopedia plays an undeniable role. Its peer reviewed nature adds much to its authenticity.

Comparable Tools

- Encyclopedia Smithsonian (<http://www.si.edu/Encyclopedia>)
- Encyclopedia of Science
(<http://www.daviddarling.info/encyclopedia/ETEmain.html>)
- Encyclopedia Astronautica (<http://www.astronautix.com/>)
- The Encyclopedia of Laser Physics and Technology
(<https://www.rp-photonics.com/encyclopedia.html>)
- Science Encyclopedia (<http://science.jrank.org/>)

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May 10, 2016