

# Поисковые и мультимедийные возможности ScienceDirect, новое содержимое и сервисы



**Андрей Локтев,**  
консультант по ключевым информационным решениям Elsevier

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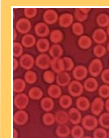


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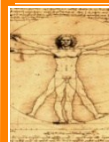
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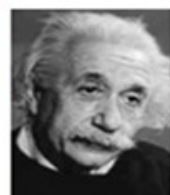
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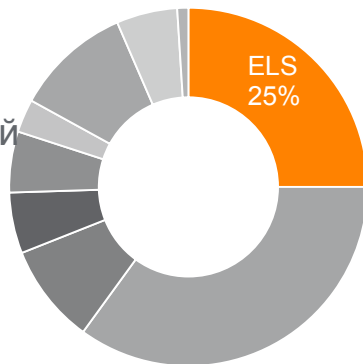
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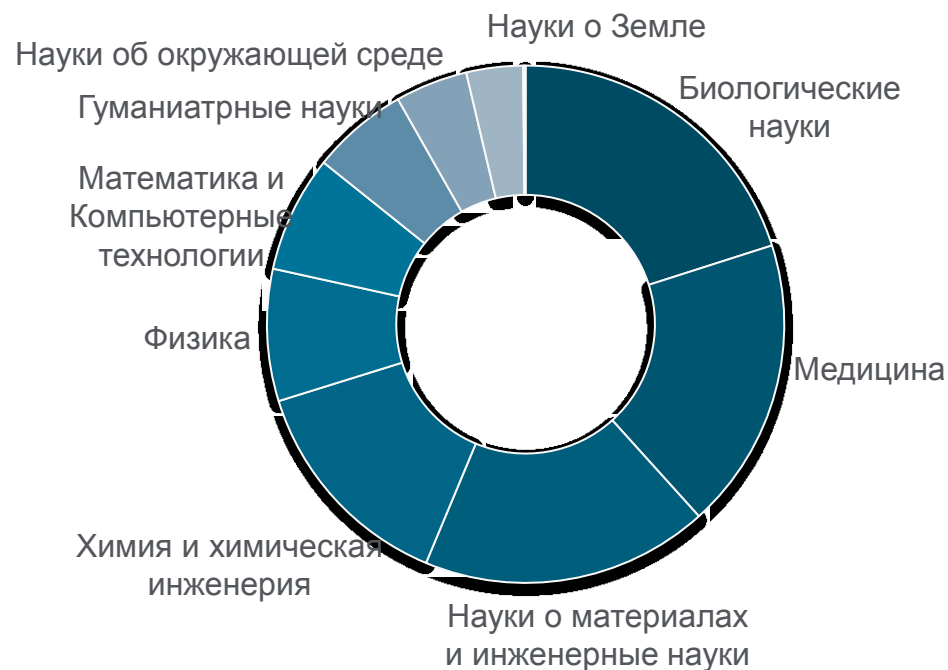
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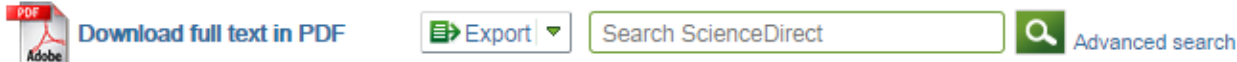
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## Computer Networks and ISDN Systems

Volume 30, Issues 1–7, April 1998, Pages 107–117

Proceedings of the Seventh International World Wide Web Conference



### The anatomy of a large-scale hypertextual Web search engine ☆

Sergey Brin ✉, Lawrence Page 🧑 · ✉

Computer Science Department, Stanford University, Stanford, CA 94305, USA

Available online 17 June 1999

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doi:10.1016/S0169-7552(98)00110-X

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#### Abstract

In this paper, we present Google, a prototype of a large-scale search engine which makes heavy use of the structure present in hypertext. Google is designed to crawl and index the Web efficiently and produce much more satisfying search results than existing systems. The prototype with a full text and hyperlink database of at least 24 million pages is available at <http://google.stanford.edu/>

To engineer a search engine is a challenging task. Search engines index tens to hundreds of millions of Web pages involving a comparable number of distinct terms. They answer tens of millions of queries every day. Despite the importance of large-scale search engines on the Web, very little academic research has

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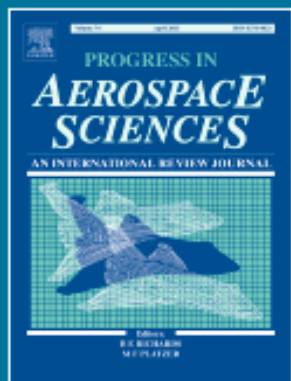
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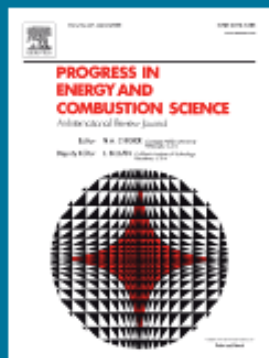
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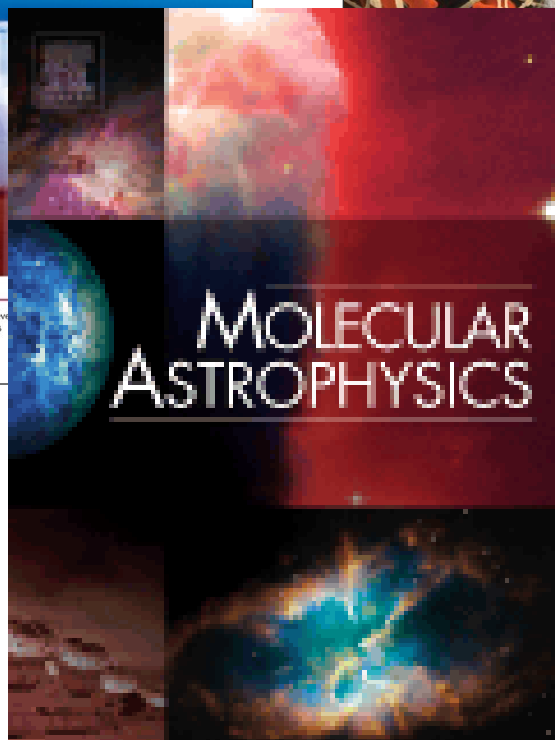
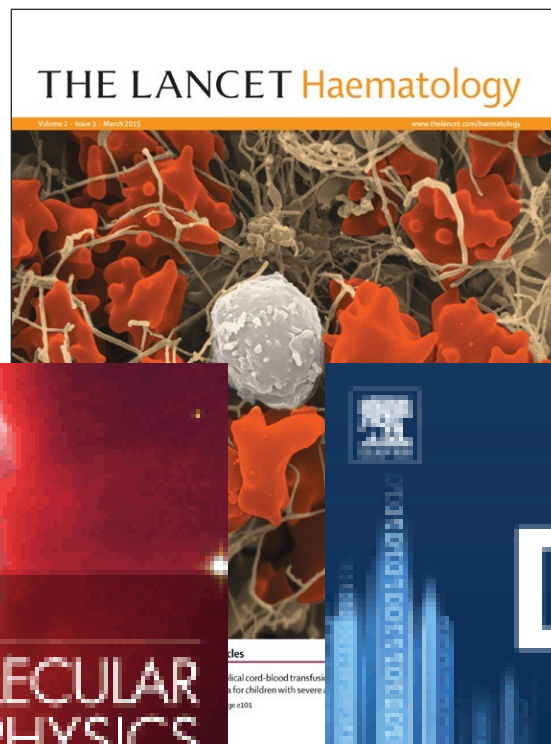
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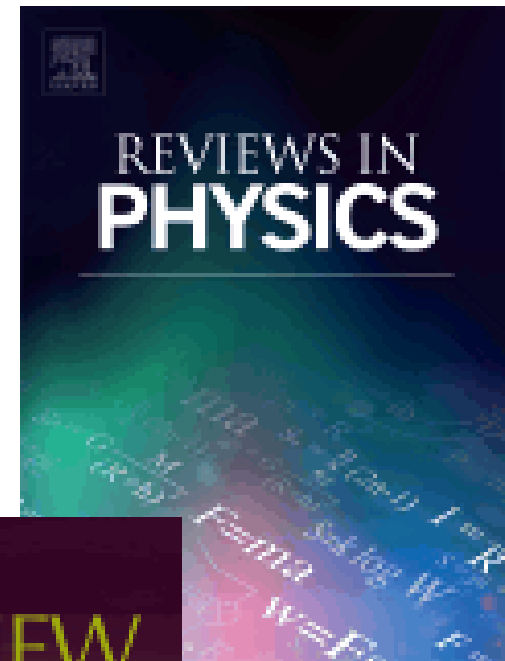
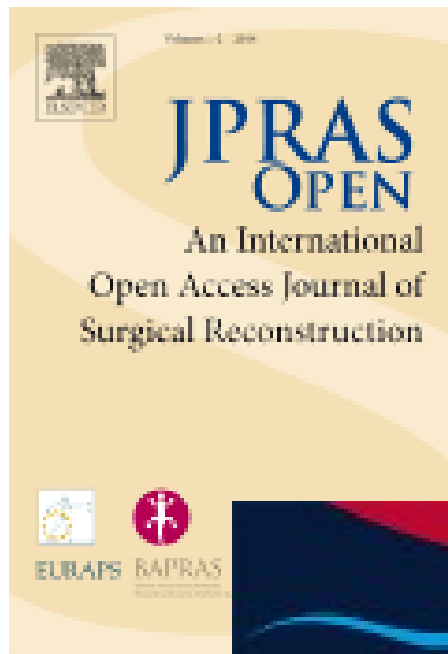
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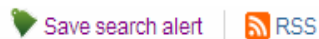
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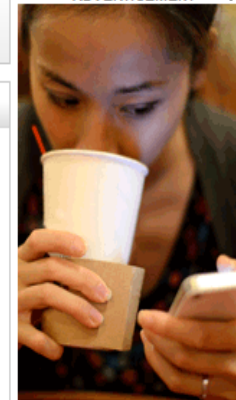
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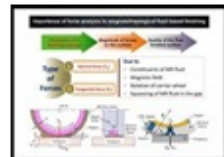
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Paolo Casoli, Agostino Gambarotta, Nicola Pompini, Ugo Caiazzo, Enrico Lanfranco, Annachiara Palmisano

[Abstract](#) | [PDF \(804 K\)](#)[Open Access](#)☐ **Application of bioethanol/RME/diesel blend in a Euro5 automotive diesel engine: Potentiality of closed loop combustion control technology** Original Research Article*Applied Energy, Volume 102, February 2013, Pages 13-23*

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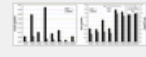
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  2. Engine and fuels
  3. Test methodology
  4. Results and discussion
  5. Conclusions
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## Figures and tables

### Table 1



### Table 2



## Applied Energy

Volume 102, February 2013, Pages 13–23

Special Issue on Advances in sustainable biofuel production and use - XIX International Symposium on Alcohol Fuels - ISAF



## Application of bioethanol/RME/diesel blend in a Euro5 automotive diesel engine: Potentiality of closed loop combustion control technology

Chiara Guido<sup>a,\*</sup>, Carlo Beatrice<sup>a</sup>, Pierpaolo Napolitano<sup>a,b</sup>[Show more](#)

DOI: 10.1016/j.apenergy.2012.12.010

Возможность связаться с автором напрямую

### Abstract

Изображения и таблицы в удобном для скачивания формате

Require the use of biofuels by at least 10% as energy source in transport by means of the use of different renewable fuels; bioethanol (BE) is one production cost and availability. BE usually replaces gasoline in petrol low concentrations to feed diesel engines.

Experimental activity aimed to study the impact of a BE/biodiesel/mineral emissions in a last generation automotive diesel engine are presented.

Experimental activity aimed to study the impact of a BE/biodiesel/mineral emissions in a last generation automotive diesel engine are presented.

Two fuel blends have been compared: the Rapeseed Methyl Ester (RME)/diesel with 10% of biodiesel by volume (B10), and the BE/RME/diesel with 20% of BE and 10% of biodiesel by volume (E20B10).

The experimental campaign was carried out on a 2.0 L diesel engine compliant with Euro5 regulation. The engine features the closed loop combustion control technology and real-time engine management with the Electronic Control Unit (ECU).

В дополнение к успешно найденной статье еще 3 рекомендации на основе поведенческих алгоритмов

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Abstract

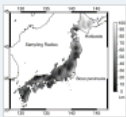
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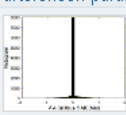


3.2. Definition of background seismicity rate

3.3. Detection of anomalous background seismicity

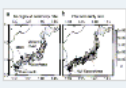
3.4. Monte Carlo simulation

3.5. Susceptibility of the result to aftershock parameters

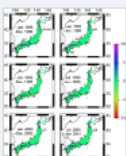


4. Results

4.1. Annual background seismicity rate of 5.5 recent years



4.2. Detected quiescence and activation anomalies



SAIC takes a positive value for activation anomalies and a negative value for quiescent anomalies. The absolute magnitude of SAIC represents statistical significance because it is the difference of AICs between two models. If the AIC of the first model is smaller, the anomaly is not significant and SAIC is set as zero by the boxcar function in the equation.

While the number of background events was not determined in any stages of our analysis, the expectation of the number of background events could be estimated because we estimated the probability that a certain event was a background event. By plotting the cumulative expected number of events versus time, we could visualize the temporal rate change within a window period. This is similar to a generalization of the cumulative number plot of independent events obtained by the de-clustering algorithm that separates events. The probability that a certain event was a background event was estimated by maximizing the likelihood with the application of the EM algorithm (Dempster et al., 1977) to the ETAS model, as described in Appendix A.

3.4. Monte Carlo simulation

We conducted a Monte Carlo experiment to compare the observed distribution of AIC to that from an ideally constant background seismicity model, to find out whether the observed background seismicity was almost regular or not. First, we simulated an earthquake using the extended ETAS model shown above.

The simulation was conducted in a circular area with a radius twice that of the sampling area. We did not simulate earthquakes over all the Japanese islands at once because doing so would require too much computational time. However, we carefully considered the effect from the limited size of the area. The radius had to be greater than the sampling radius because we needed to estimate the effect of earthquakes around a hypocenter and an origin time of a simulated event were considered in Ogata (1998). His algorithm simulates earthquakes in a circular area with a radius twice that of the sampling area. We did not simulate earthquakes over all the Japanese islands at once because doing so would require too much computational time. However, we carefully considered the effect from the limited size of the area. The radius had to be greater than the sampling radius because we needed to estimate the effect of earthquakes around a hypocenter and an origin time of a simulated event were considered in Ogata (1998). His algorithm simulates earthquakes in a circular area with a radius twice that of the sampling area.

The set of parameters  $\mu$ ,  $K$ ,  $c$  and  $b$  value of Gutenberg and Richter's magnitude frequency distribution were randomly selected from a set of parameters estimated in all the cases (all study areas and all models with constant or varying rate of background seismicity) with the observed catalog. The  $b$  value was not required in the background seismicity analysis, but it was necessary to produce the synthetic catalog and was determined by the maximum likelihood estimate (MLE) of the observed catalog. In the study period, we accepted synthetic catalogs including more than 3000 events. The procedure was repeated 1000 times.

3.5. Susceptibility of the result to aftershock parameters

In our analysis, we assumed aftershock parameters as  $a = 1$  and  $p = 1.1$ , and therefore may have biased the analysis of background activity. As an alternative set of parameters, we also adopted parameters proposed by Utsu (1969) to represent aftershocks of Japan ( $a = 0.85$  and  $p = 1.3$ ) and re-analyzed the observed seismic activity. As a result, we concluded that the choice of the aftershock parameters was unimportant as

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Y. Ogata

**Space-time point-process model for earthquake occurrence**

Ann. Inst. Stat. Math., 50 (2) (1998), pp. 379–402

Abstract

Several space-time statistical models are constructed based on both classical empirical studies of clustering and some more speculative hypotheses. Then we discuss the discrimination between models incorporating contrasting assumptions concerning the form of the space-time clusters. We also examine further practical extensions of the model to situations where the background seismicity is spatially non-homogeneous, and the clusters are non-isotropic. The goodness-of-fit of the models, as measured by AIC values, is discussed for two high quality data sets, in different tectonic regions. AIC also allows the details of the clustering structure in space to be clarified. A simulation algorithm for the models is provided, and used to confirm the numerical accuracy of the likelihood calculations. The simulated data sets show the similar spatial distributions to the real ones, but differ from them in some features of space-time clustering. These differences may provide useful indicators of directions for further study.

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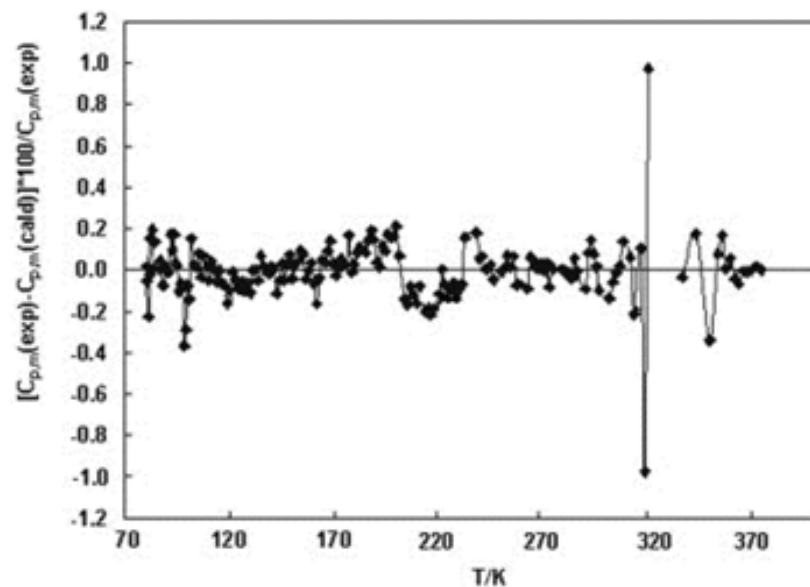


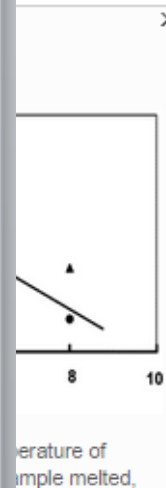
Fig. 2 Deviations of the experimental heat capacities from calculated by Eqs (3) in temperature range from 80 K to 371 K

A.I. Druzhinina, S.M. Pimenova, S.V. Tarazanov, T.N. Nesterova, R.M. Varushchenko

**Thermodynamic Properties of *tert* oxide**

The Journal of Chemical Thermodynamics, 2015

<http://dx.doi.org/10.1016/j.jct.2015.03.019>





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    - 4.3 EGR sweeps
    - 4.4 NEDC emissions estimation
  - 4.5 Torque

Fig. 5. HC (on the left) and CO (on the right) emissions, in all test points, for B10 and E20B10 blends.

Fig. 6. Cylinder pressure and energizing current (on the left), rate of heat release and heat release (on the right), for B10 and E20B10, at 1500 rpm and 2 bar of BMEP.

4.2. Indicated curves analysis

In this second part of the paragraph the evolution of in-cylinder pressure and of heat release versus crank angle (c.a.) are analyzed. For brevity, only some test points are reported; in particular Figs. 6 and 7 refer respectively to  $1500 \times 2$  and  $2000 \times 2$ , chosen to analyze by

the fuelling rate (increment of the main injection fuel quantity) to obtain the same Indicated Mean Effective Pressure (IMEP) and the same torque level of the reference blend. The authors want to stress that the variation of the injection timing and of the injected fuel quantity are automatically actuated by the CLCC system and are not the results of a manual setting of calibration. For other details on the CLCC benefits burning alternative fuel or blends, refer to [20].

In the right diagrams of Figs. 6 and 7 the rate of heat release (ROHR) and the heat release (HR) curves are reported. In both test points it is evident a reduced effect of pilot injection combustion for E20B10. Various factors are behind this behavior: the first one is the low cetane number of the E20B10 blend, of course, that delays the pilot ignition timing. This effect, in turns, requires an earlier injection timing (see energizing current traces), promoting the fuel overmixing of the pilot injection. As a consequence, a lower combustion efficiency of the pilot injection occurs. Additionally, the CLCC system is designed to correct only the fuel quantity of

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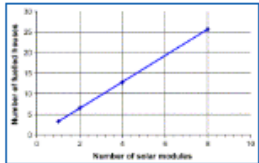
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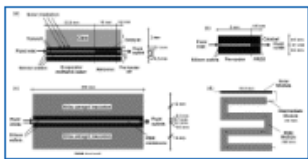
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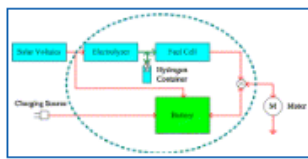
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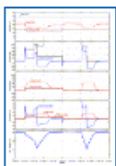
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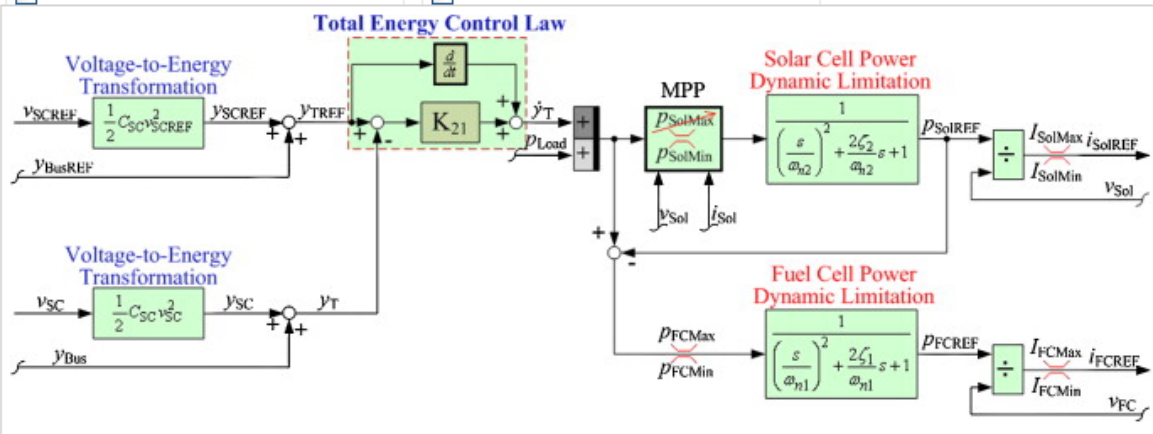
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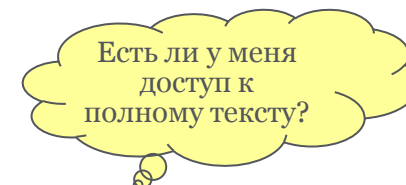
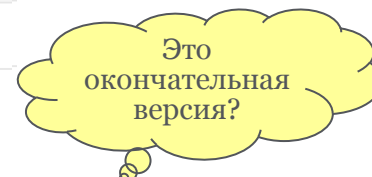
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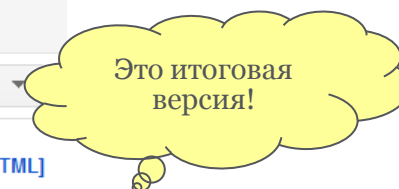
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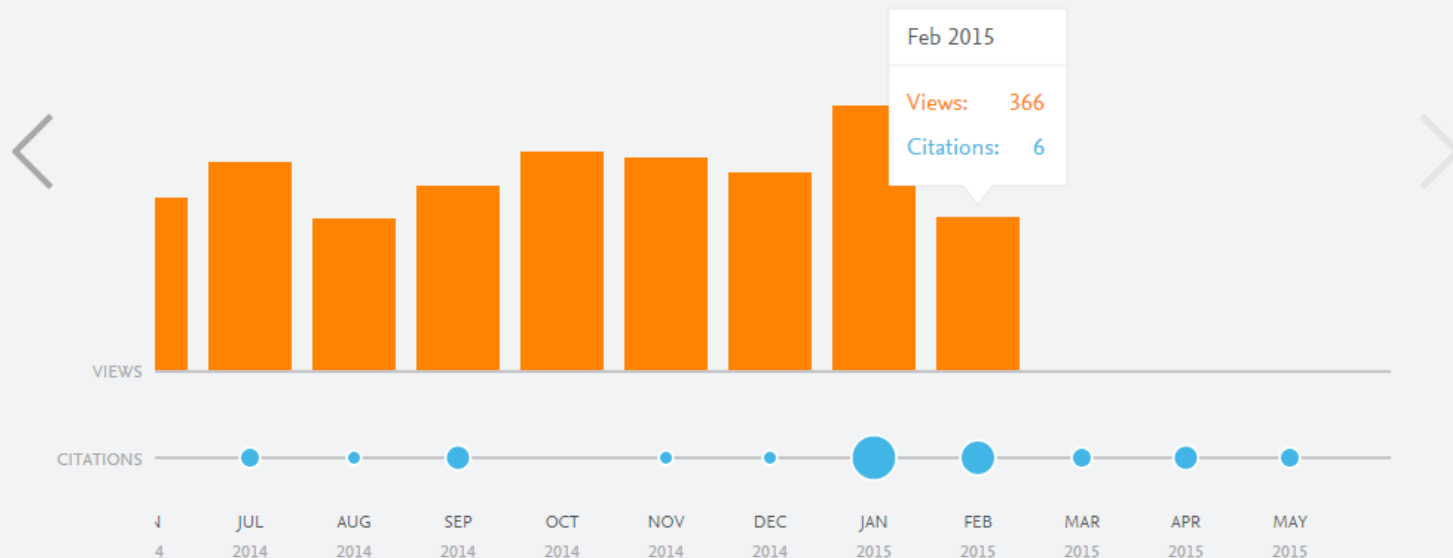


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