



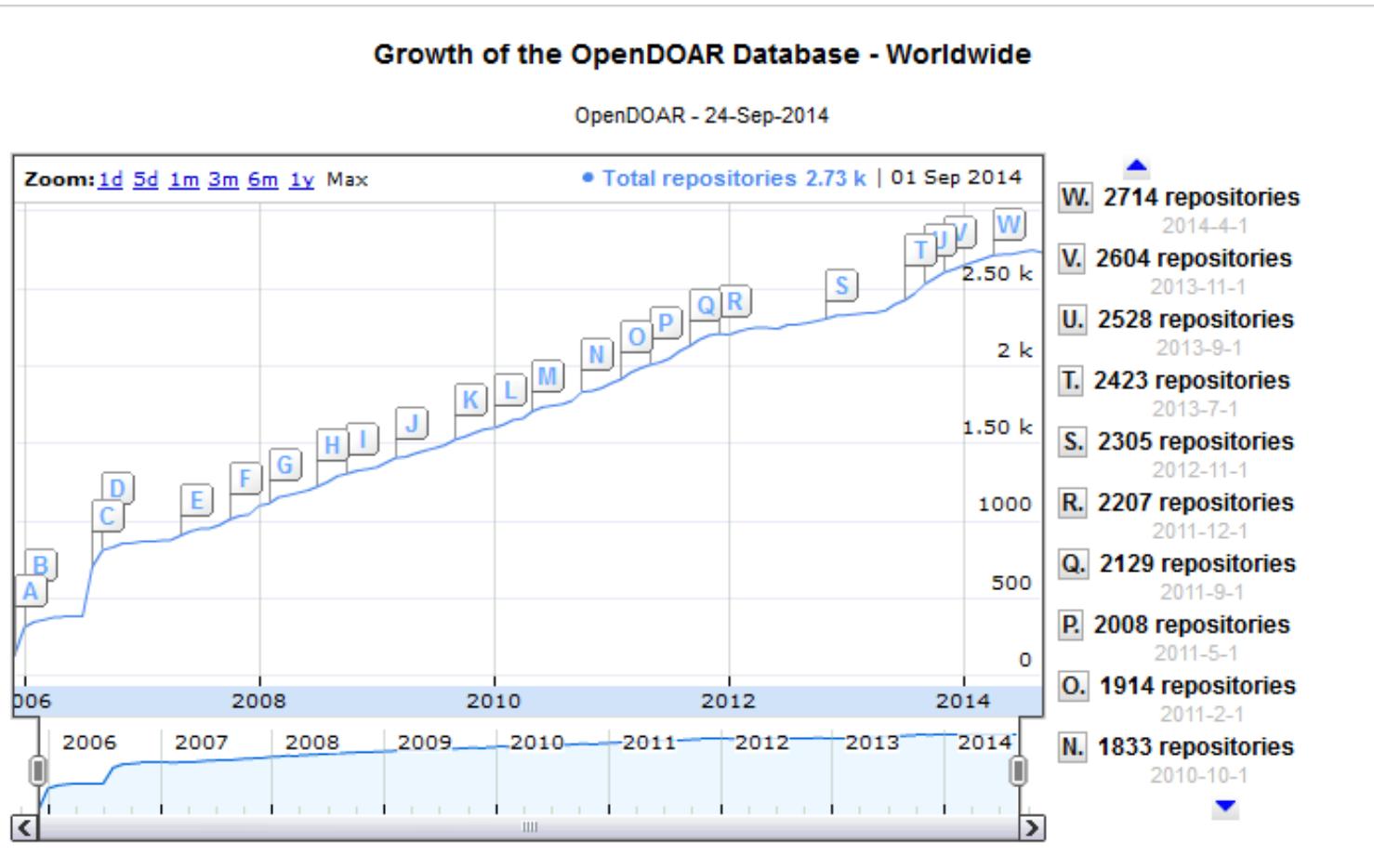
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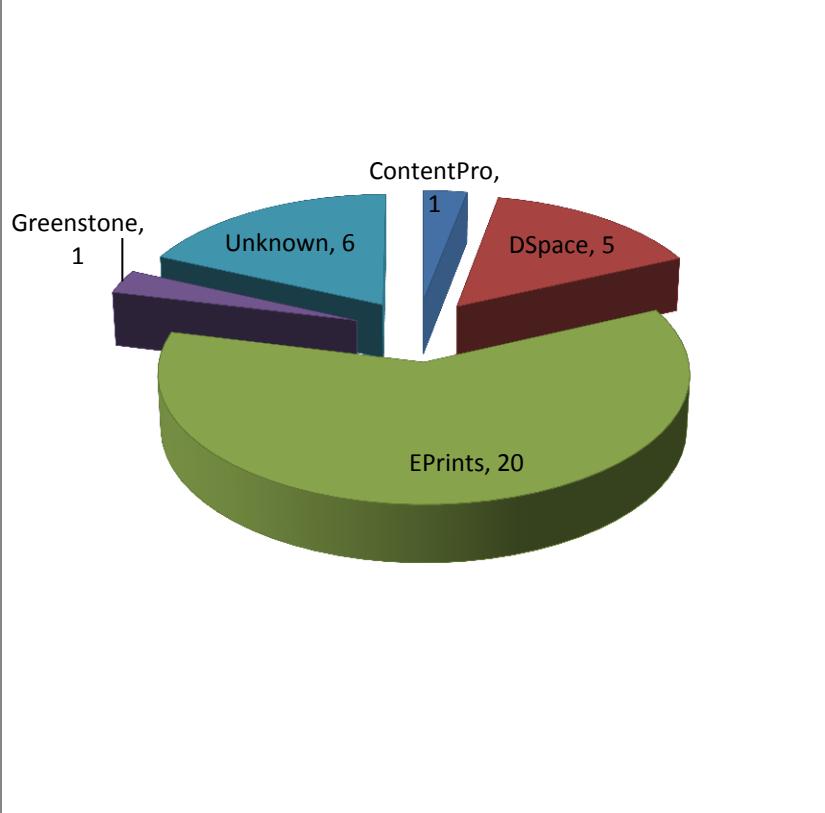
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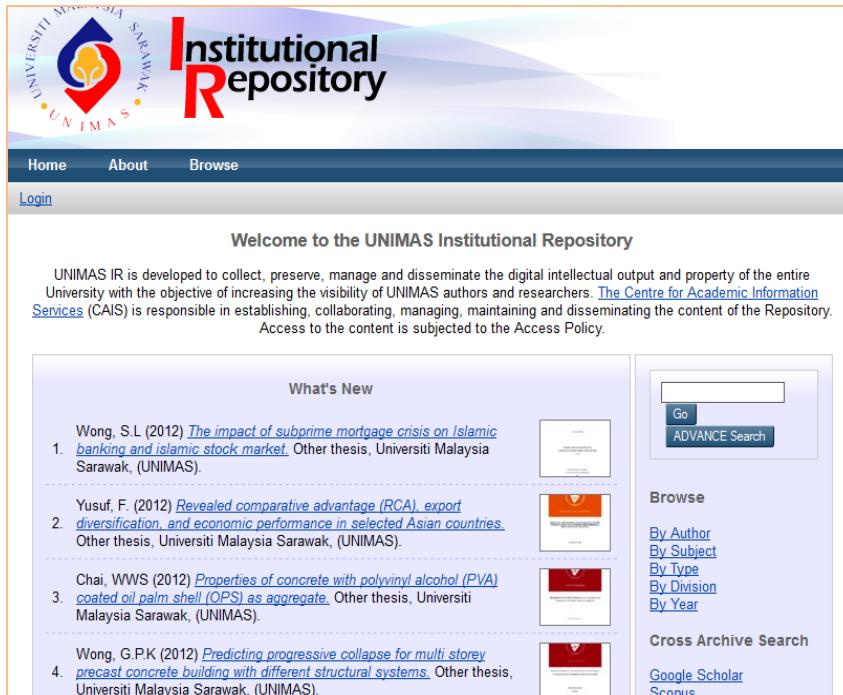




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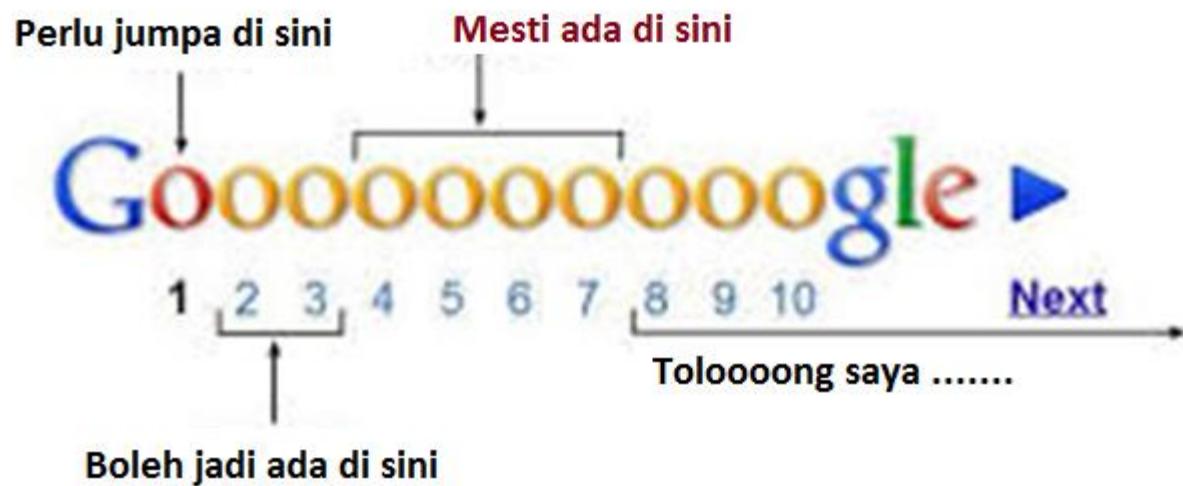
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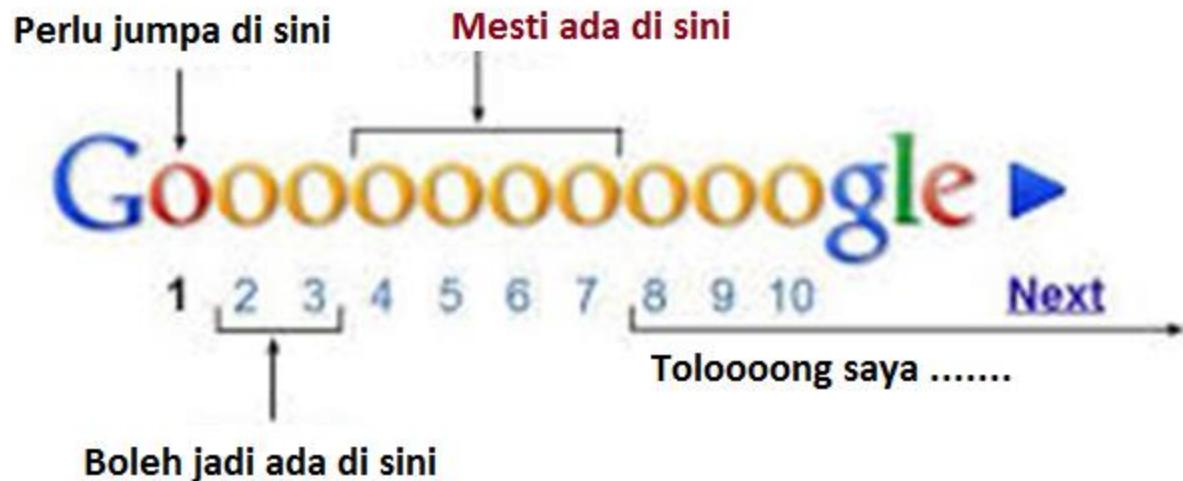


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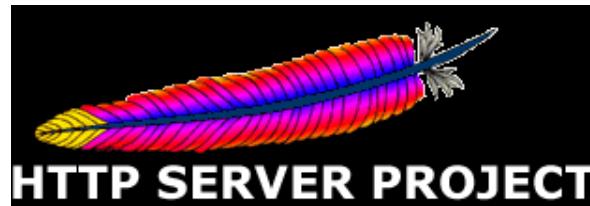
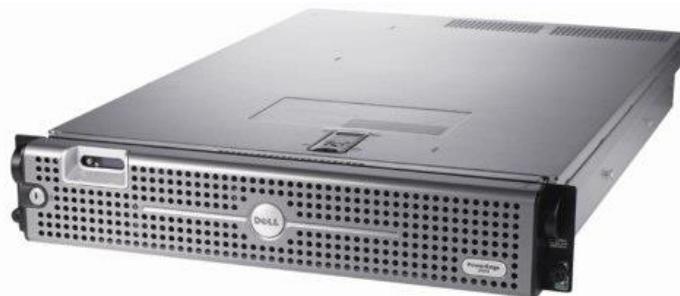
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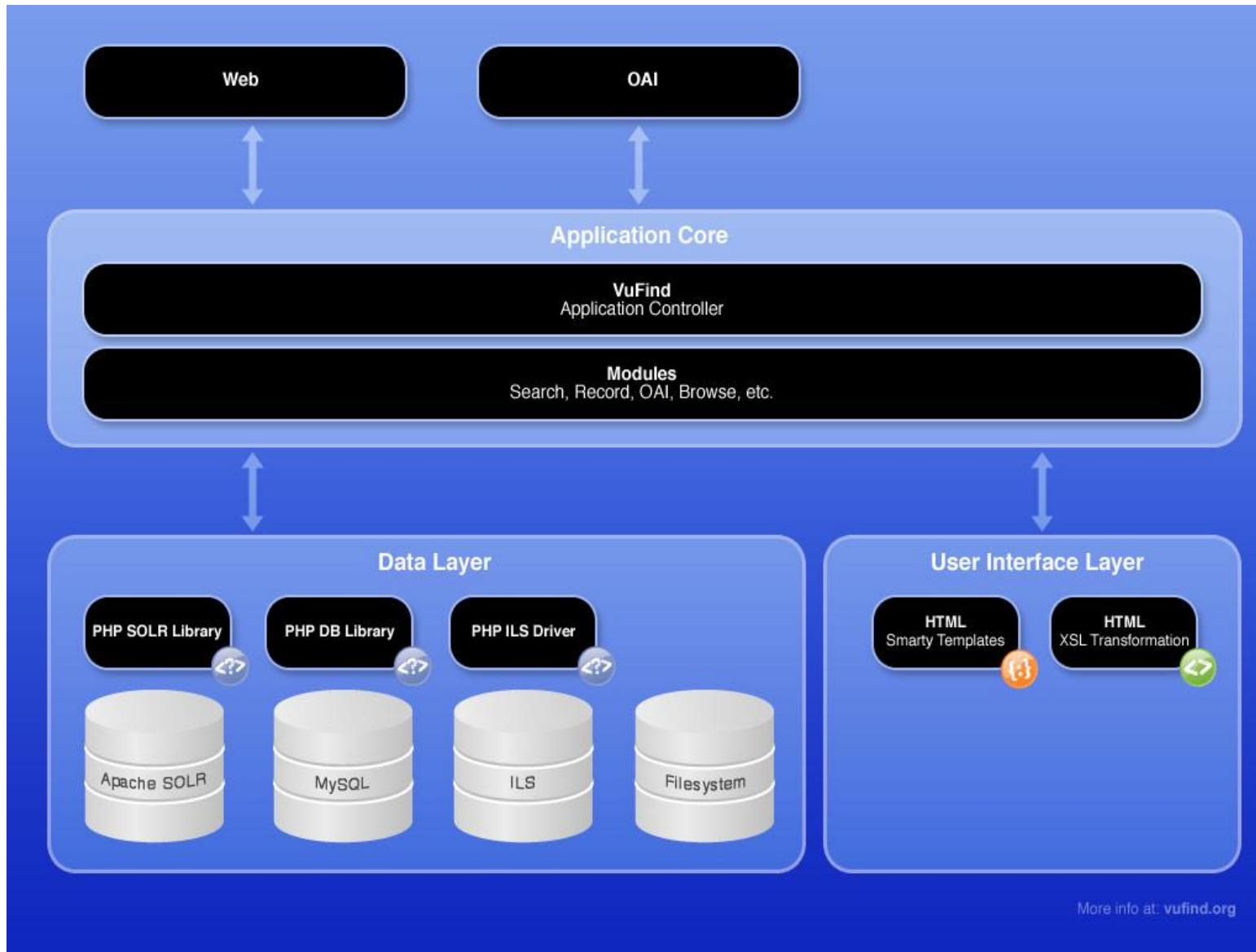
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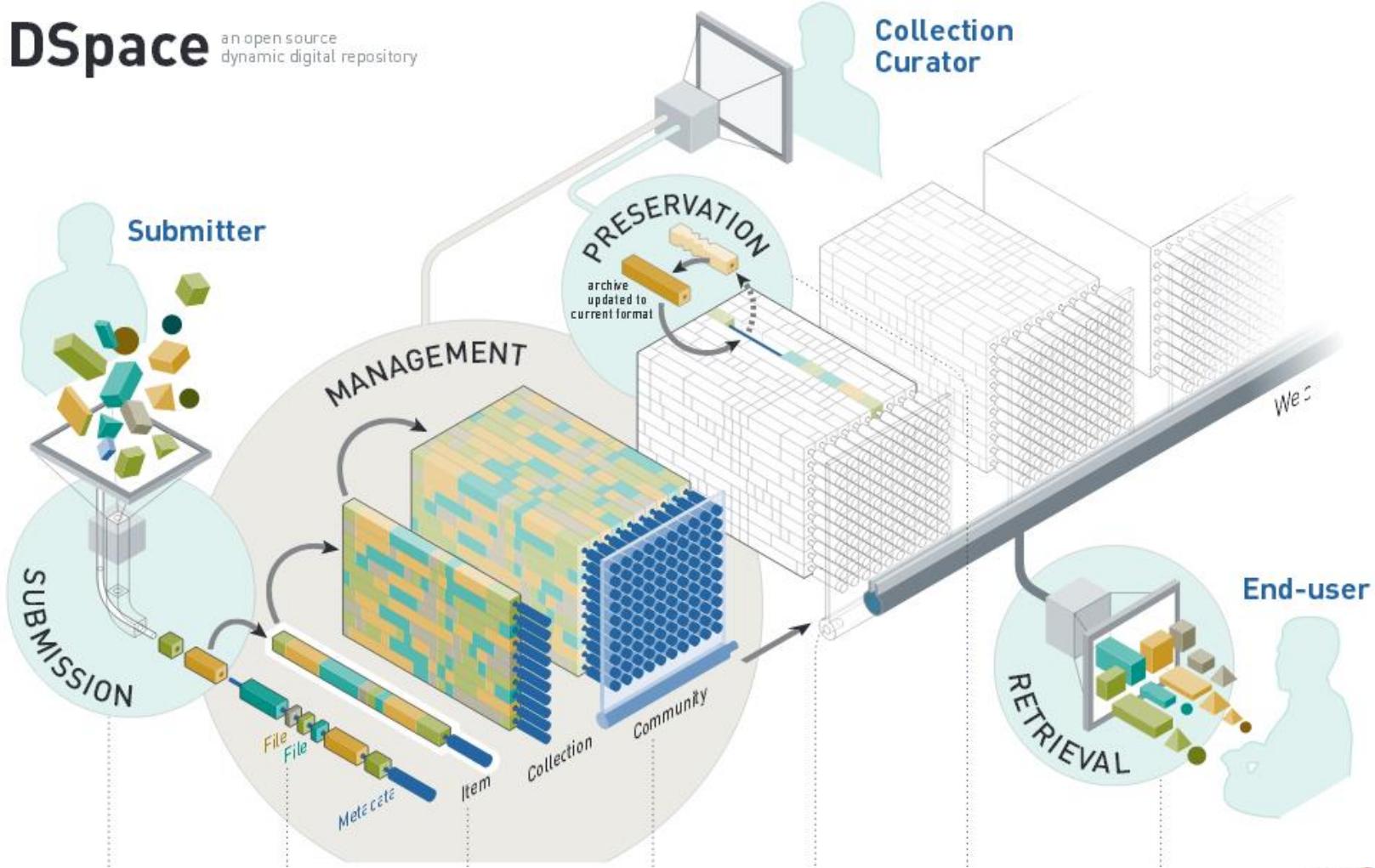
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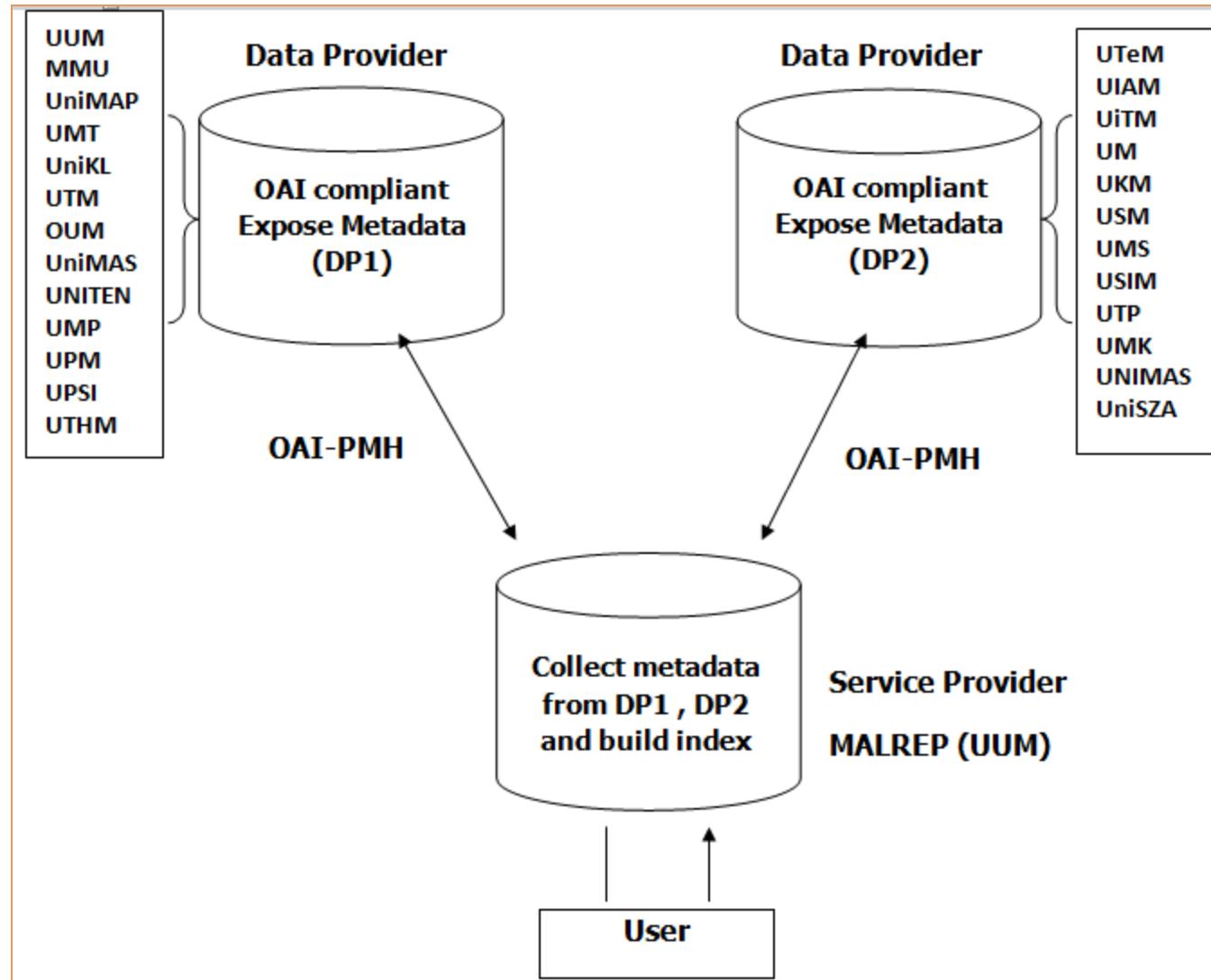


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Development of intelligent traffic light

Mior Tajul Adzam Selipol Bahari

URI: <http://hdl.handle.net/123456789/2857>

Date: 2007-04

Abstract:

Today, most of the traffic lights in Malaysia are controlled by Programmable Logic Control (PLC). This controller is chosen due to its low cost and user friendly programming language. The program could be modified to suit the requirement of any particular traffic lights. This project used the Programmable Logic Controller (PLC) as a controller.

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Main Author: [Mior Tajul Adzam Selipol Bahari](#)

Format: Learning Object

Language: English

Published: Universiti Malaysia Perlis 2008

Institution: Universiti Malaysia Perlis

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Main Author: [Muhamad, Sallehuddin](#)

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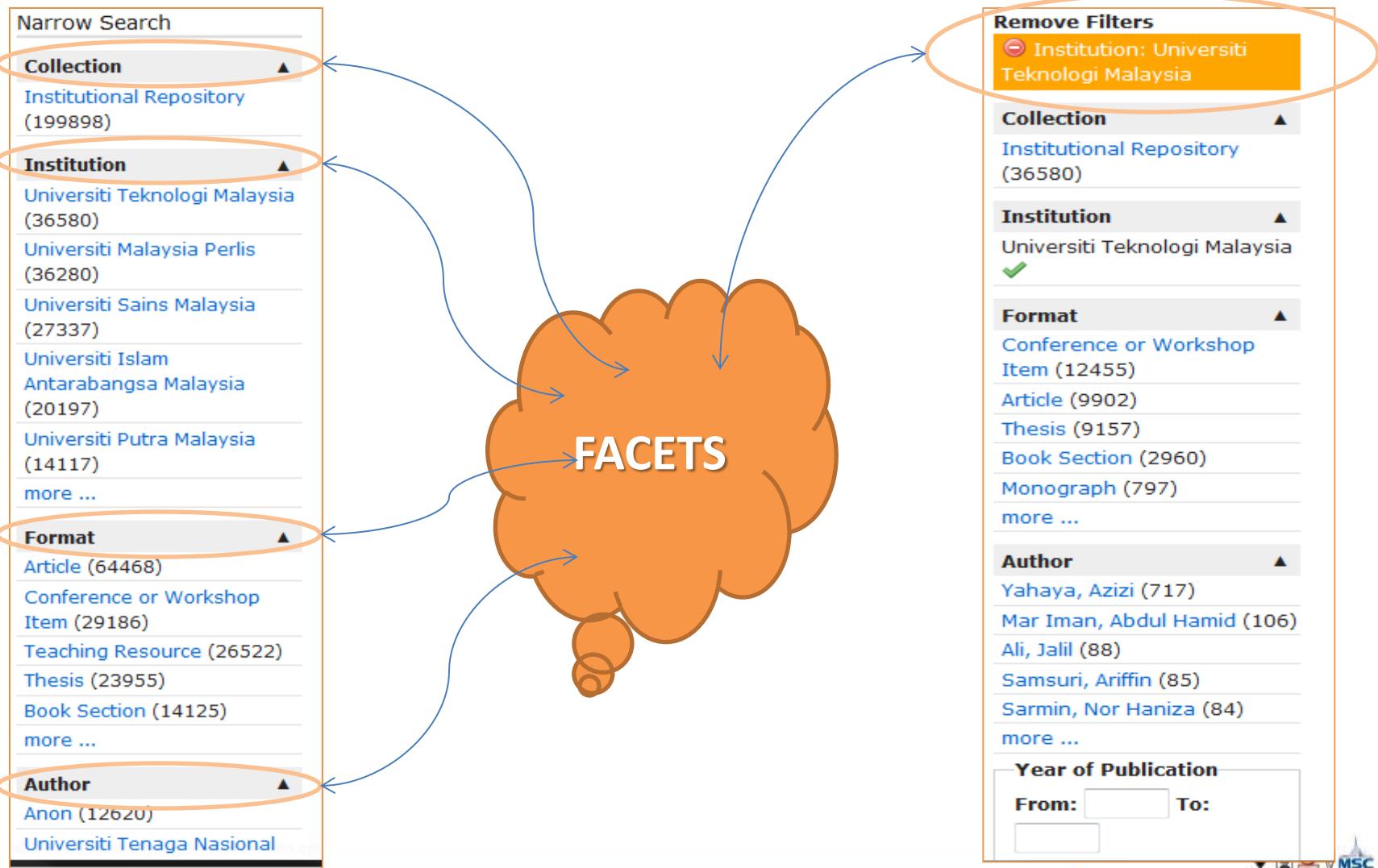
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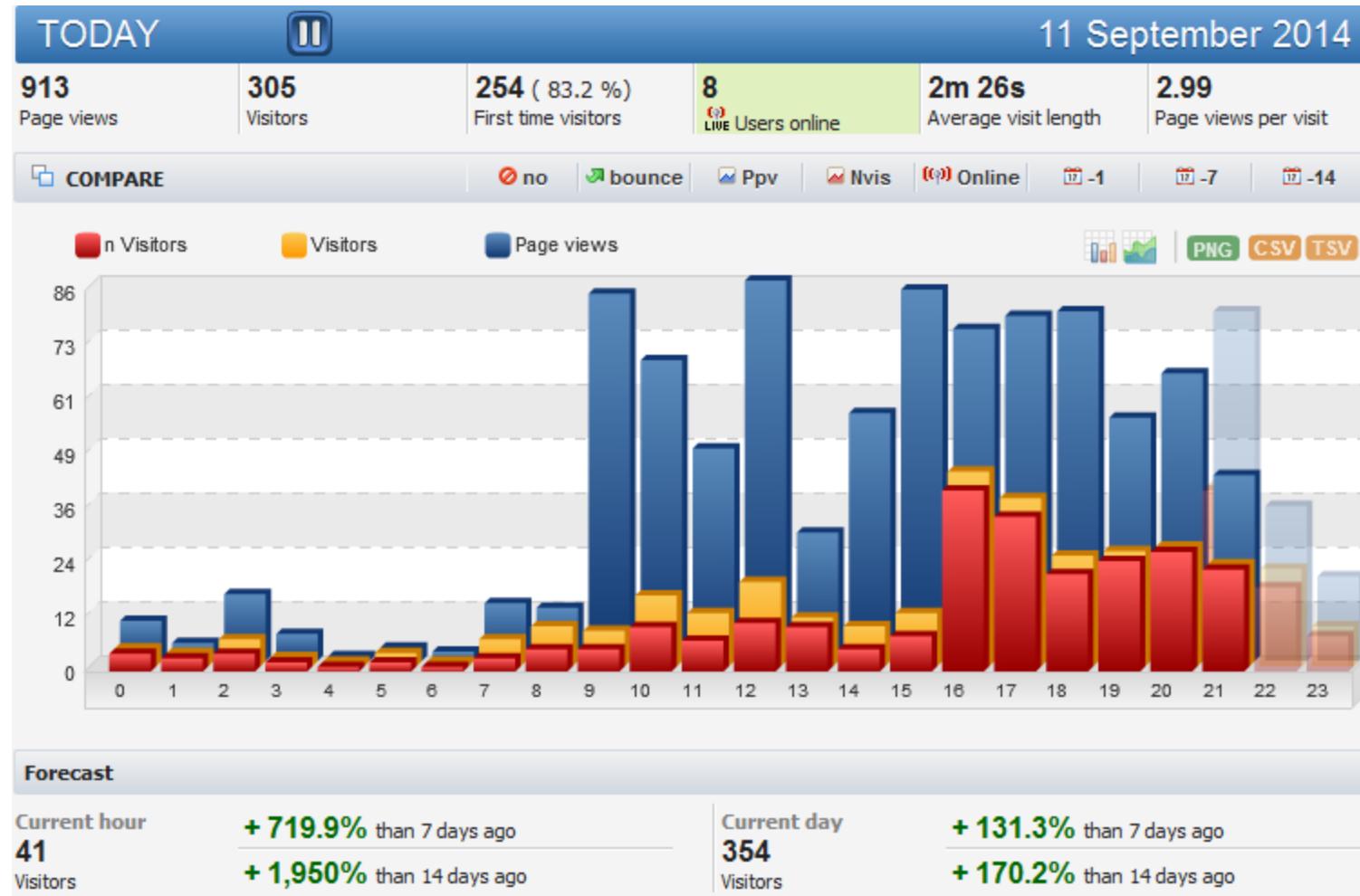
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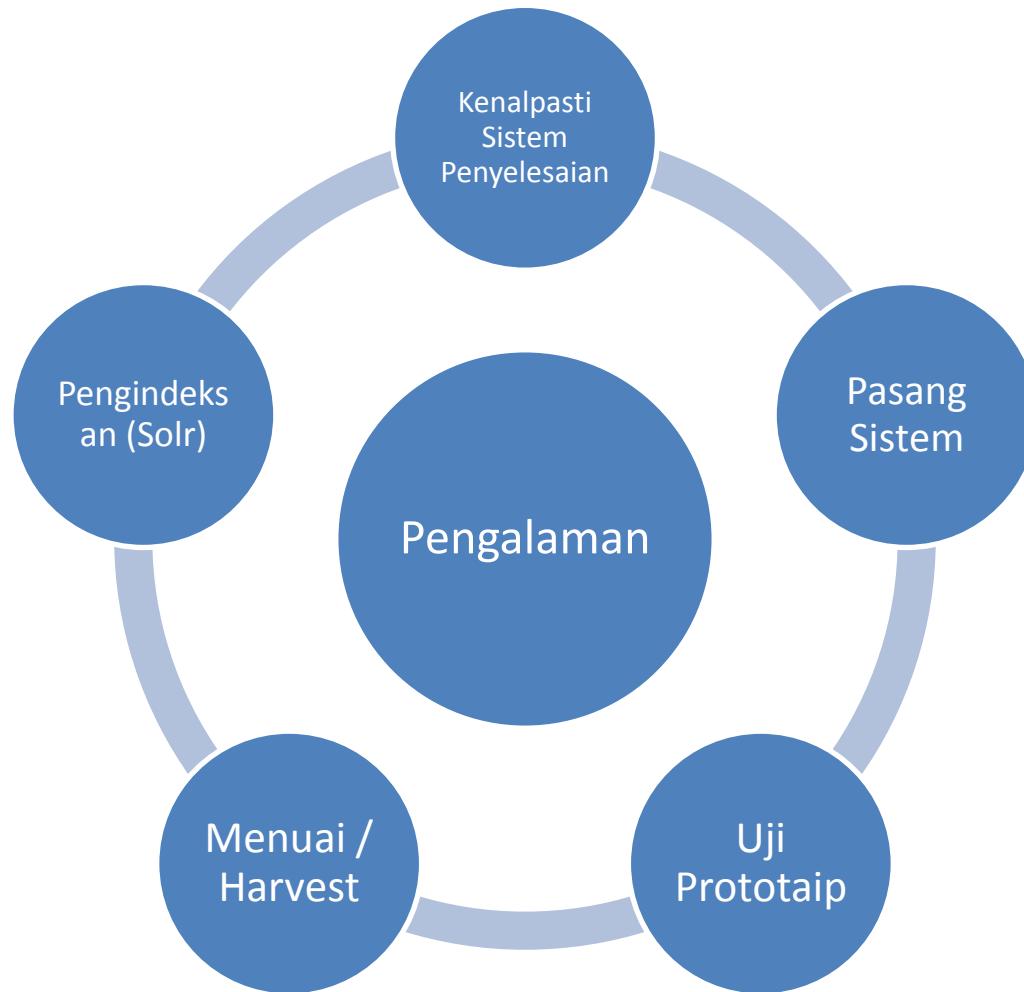
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Main Author: [Clement, Oluwole Folorunso](#)

Other Authors: [Ahmad, Mohd. Hamdan](#)

Format: Article

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Estimating ensemble average power delivered by a piezoelectric patch actuator to a non-deterministic subsystem



Engineering systems such as aircraft, ships and automotive are considered built-up structures. Dynamically they are taught of as being fabricated from many components that are classified as deterministic subsystems (DS) and non-deterministic subsystems (Non-DS). Structures' response of the DS is det...

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Main Author: [Abdul Muthalif, Asan Gani](#)

Other Authors: [Walid, Azni N.](#), [Mohd Nor, Khairul A.](#)

Format: Article

Published: Elsevier 2014

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Estimating ensemble average power delivered by a piezoelectric patch actuator to a non-deterministic subsystem

Abdul Muthalif, Asan Gani and Walid, Azni N. and Mohd Nor, Khairul A. (2014) *Estimating ensemble average power delivered by a piezoelectric patch actuator to a non-deterministic subsystem*. Journal of Sound and Vibration, 333 (4). pp. 1149-1162. ISSN 0022-460X



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Abstract

Engineering systems such as aircraft, ships and automotive are considered built-up structures. Dynamically they are taught of as being fabricated from many components that are classified as deterministic subsystems (DS) and non-deterministic subsystems (Non-DS). Structures' response of the DS is deterministic in nature and analysed using deterministic modelling methods such as finite element method (FEM). The response of Non-DS is statistical in nature and estimated using statistical modelling technique such as statistical energy analysis (SEA). SEA method uses power balance equation, in which any external input to the subsystem must be represented in terms of power. Often, input force is taken as point force and ensemble average power delivered by point force is already well-established. However, the external input can also be applied in the form of moments exerted by a piezoelectric (PZT) patch actuator. In order to be able to apply SEA method for input moments, a mathematical representation for moment generated by PZT patch in the form of average power is needed, which is attempted in this paper. A simply-supported plate with attached PZT patch is taken as a benchmark model. Analytical solution to estimate average power is derived using mobility approach. Ensemble average of power given by the PZT patch actuator to the benchmark model when subjected to structural uncertainties is also simulated using Lagrangian

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Abstract

Kaffir lime leaf (*Citrus hystrix*) is a source of natural flavouring widely used for a long term in the Asian country. The major constituent of *Citrus hystrix* has been reported is citronellal which is responsible for flavour. Usually kaffir lime leaves flavour available in the market is synthetic. Thus, this study is to introduce a natural kaffir lime leaves flavour based on extraction. Generally, conventional method has many disadvantages like production of thermally destructive compounds in the extract, time consuming and lower yield of the extract obtained. Current extraction methods like hydrodistillation and Soxhlet extraction are tedious, labour and time consuming. Thus, the major objectives of this study were to optimise more efficient and rapid Pressurised Liquid Extraction to produce quality kaffir lime leaves oleoresin. Optimised Pressurised Liquid Extraction conditions were at a temperature of 65.65 oC and a static time of 5.02 minutes. Flavour profiling of the extract obtained from this optimised condition was also been carried out using GC-MS. The compounds determined were sabinene, myrcene, α -pinene and citronellal. The concentration of the major marker compound, citronellal in the extract was 0.28 mg/100g. Moisture content in the fresh leaves was $59.22 \pm 0.39\%$ and for dried leaves was $13.15 \pm 0.27\%$. The total percentage yield of the extract obtained