



JURUSAN TEKNIK KOMPUTER  
POLITEKNIK NEGERI SRIWIJAYA

TC202408-Metode Penelitian

# Bab 2 Topik Penelitian

M. Miftakul Amin



# Jenis Penelitian

Menurut Bidang Ilmu (Essays, UK. 2013)

- **Penelitian Dasar:**

- ✓ Penelitian pada bidang ilmu dasar seperti matematika, kimia, fisika, biologi, dan sebagainya.
- ✓ Sulit dilakukan, karena butuh fondasi keilmuan yang sangat kuat.

- **Penelitian Terapan:**

- ✓ Penelitian pada bidang terapan seperti teknik informatika, teknik mesin, teknik kimia, teknik fisika, kedokteran, dan sebagainya.
- ✓ Memiliki peluang yang banyak, terutama di negara berkembang seperti Indonesia.



# Jenis Penelitian

Menurut Bentukan Ilmu (Trochim, 2006)

- **Penelitian Induktif:**

- ✓ Meneliti kasus-kasus spesifik dan berusaha mendapatkan generalisasi (*bottom-up*).
- ✓ Untuk memperoleh teorema, metode, teknik, dan pendekatan dari hal kecil dan diimplementasikan kepada hal yang besar.

- **Penelitian Deduktif:**

- ✓ Penelitian yang berdasarkan metode atau teorema yang telah diketahui dan diterapkan pada kasus yang belum diketahui (*top-down*).
- ✓ Melakukan pengujian terhadap sebuah metode dengan diterapkan pada berbagai kasus yang berbeda.



# Jenis Penelitian

Menurut Bentuk Data (Essays, UK. 2013)

- **Penelitian Kuantitatif:**

- ✓ Data penelitian berupa angka yang dapat diolah secara matematis.
- ✓ Hasil analisis data kuantitatif dijadikan dasar untuk mengambil suatu kesimpulan sebagai solusi.

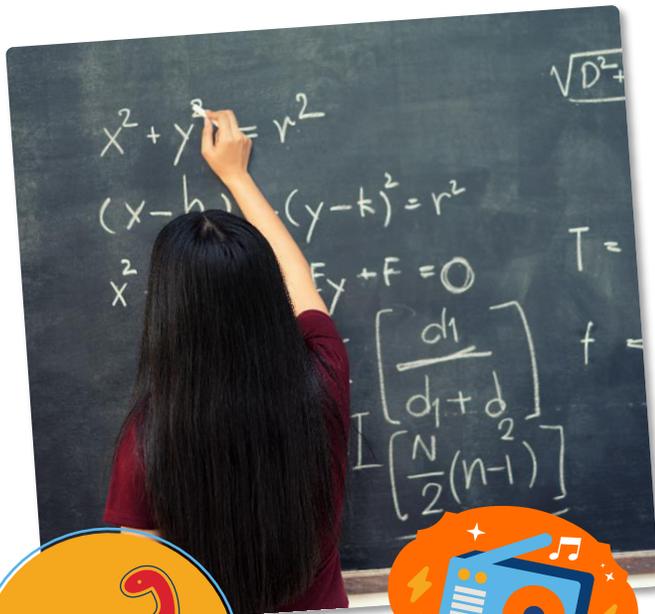
- **Penelitian Kualitatif:**

- ✓ Data penelitian bukan dominan angka, seperti hasil survei, opini, dan sejenisnya.
- ✓ Data dapat diolah dengan pendekatan kuantitatif untuk menemukan solusi.



# Tahapan Penelitian

## Langkah-langkah penelitian



1. **Menentukan topik dan perumusan masalah:** menemukan topik yang sesuai, merumuskan masalah yang terukur, dan research interest.
2. **Meneliti hasil karya orang lain dan menemukan keaslian penelitian:** menelaah penelitian relevan sebagai factor kunci meningkatkan pemahaman. Memperoleh novelty dan keaslian penelitian. Mendapatkan wawasan, kelebihan dan kekurangan penelitian sebelumnya, menemukan kepakaran dan kontributor penelitian.
3. **Memilih sumber data:** mempertimbangkan sumber dan bentuk data penelitian.
4. **Menemukan metode dan perangkat:** seperangkat metode untuk mengolah dan analisis data serta pengambilan kesimpulan.
5. **Mulai meneliti dan mencatat:** log book penelitian dan dokumentasi.
6. **Membuat produk penelitian:** dapat berupa, laporan penelitian, publikasi ilmiah, HKI, paten, metode baru, kebijakan, dan sejenisnya.

# Topik Penelitian

Bidang atau area besar bidang ilmu, dimana penelitian akan dilaksanakan.

Software Engineering

Software Testing

Artificial Intelligence

Business Intelligence

Cloud & Grid Computing

Data Mining & Warehousing

Decision Support System

Enterprise Architecture

Enterprise System

Human Computer Interaction



Robotic & Control System  
Optimization

Image Processing

Information Retrieval

Information System

Information System Audit

Knowledge Management

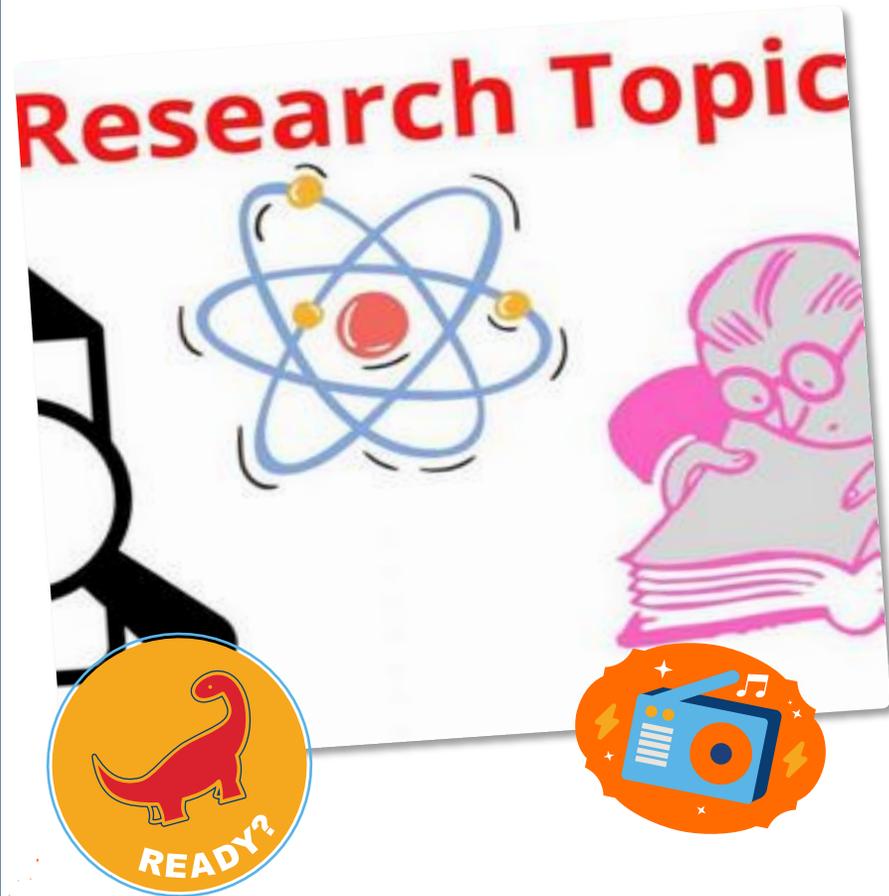
Mobile Computing

Open Source System

Semantic Web

# Pemilihan Topik

Menemukan Topik Penelitian



1. Apabila kita menyukai suatu topik, maka segala sesuatunya akan terlihat mudah.
2. Apabila kita tidak menyukai suatu topik, sesuatu yang sebenarnya mudahpun akan terlihat sulit.
3. Lebih fokus lagi ke bidang di topik tersebut yang mungkin diteliti.

# Topik Penelitian

## Menemukan Topik Penelitian



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# Topik Penelitian

## Menemukan Topik Penelitian



The screenshot shows the Indonesian Wikipedia page for "Regresi logistik". The browser address bar shows the URL "https://id.wikipedia.org/wiki/Regresi\_logistik". The Wikipedia logo and search bar are visible at the top. Below the header, there are banners for "Wiki Loves FOLKLORE" and "Proyek Yuwana". The main content area features the title "Regresi logistik" with a language dropdown set to "24 bahasa". Below the title, there are navigation options: "Halaman Pembicaraan", "Baca", "Sunting", "Sunting sumber", "Lihat riwayat", and "Perkakas". The text of the article begins with "Dari Wikipedia bahasa Indonesia, ensiklopedia bebas" and "Regresi logistik (kadang disebut model logistik atau model logit), dalam statistika digunakan untuk prediksi probabilitas kejadian suatu peristiwa dengan mencocokkan data pada fungsi logit kurva logistik. Metode ini merupakan model linier umum yang digunakan untuk regresi binomial. Seperti analisis regresi pada umumnya, metode ini menggunakan beberapa variabel prediktor, baik numerik maupun kategori. Misalnya, probabilitas bahwa orang yang menderita serangan jantung pada waktu tertentu dapat diprediksi dari informasi usia, jenis kelamin, dan indeks massa tubuh. Regresi logistik juga digunakan secara luas pada bidang kedokteran dan ilmu sosial, maupun pemasaran seperti prediksi kecenderungan pelanggan untuk membeli suatu produk atau berhenti berlangganan." To the right of the text is a graph of a logistic curve (S-curve) on a coordinate system. The x-axis ranges from -6 to 6, and the y-axis ranges from 0 to 1. The curve passes through the point (0, 0.5).



# Topik Penelitian

## Menemukan Topik Penelitian



← → ↻ <https://garuda.kemdikbud.go.id/documents?q=orange+data+mining> 📄 ☆ 📧 ⬇️ 🌐 🏠

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**Pemodelan Reward Rule Game Streamer Indonesia Tingkat Amatir dengan Orange Data Mining**  
Erlin Windia Ambarsari  
STRING (Satuan Tulisan Riset dan Inovasi Teknologi) Vol 4, No 1 (2019)  
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Ratu aghnia raffaidy wiguna; Andri Irfan Rifai

# Topik Penelitian

## Menemukan Topik Penelitian



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1.332 Total Publishers

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S1	132
S2	1003
S5	2310
S3	1506
S4	2774

Previous 1 2 3 4 5 Next  
Page 1 of 807 | Total Records 8.064

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Google Scholar Website Editor URL

Top Journals

Top Journals by Impact

Journal Name	Count
JURNAL HUKUM (S3)	156
Jurnal Komunitas Yustisia (S5)	82
Indonesian Journal of Ele... (S1)	65
Saintek Perikanan : Indon... (S2)	64
Journal Of Administration... (S4)	58.4167
Perspektif Ilmu Pendidikan (S3)	52.2857
ELT in Focus (S6)	48
Nominal: Barometer Riset ... (S2)	47.8
Metodik Didaktik Jurnal ... (S4)	44.5
IQRA: Jurnal Perpustakaa... (S4)	25
Wiraraja Medika : Jumal ... (S3)	25

# Topik Penelitian

## Menemukan Topik Penelitian



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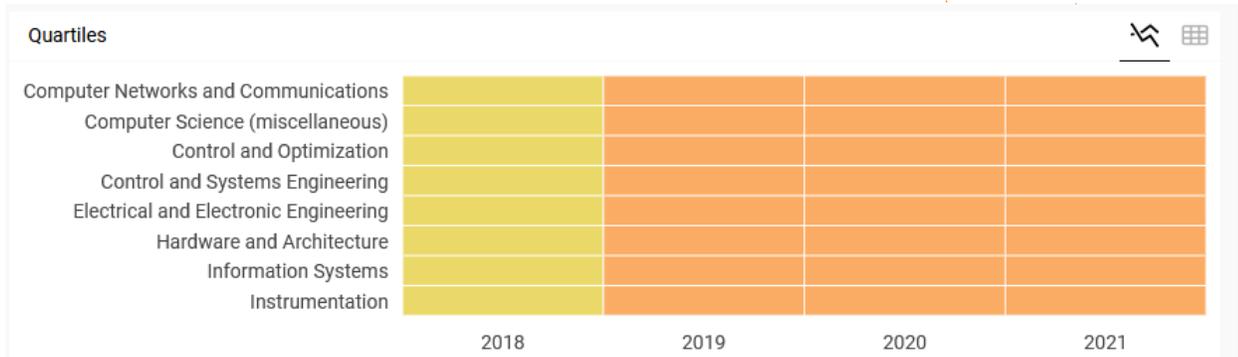
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# Topik Penelitian

## Menemukan Topik Penelitian



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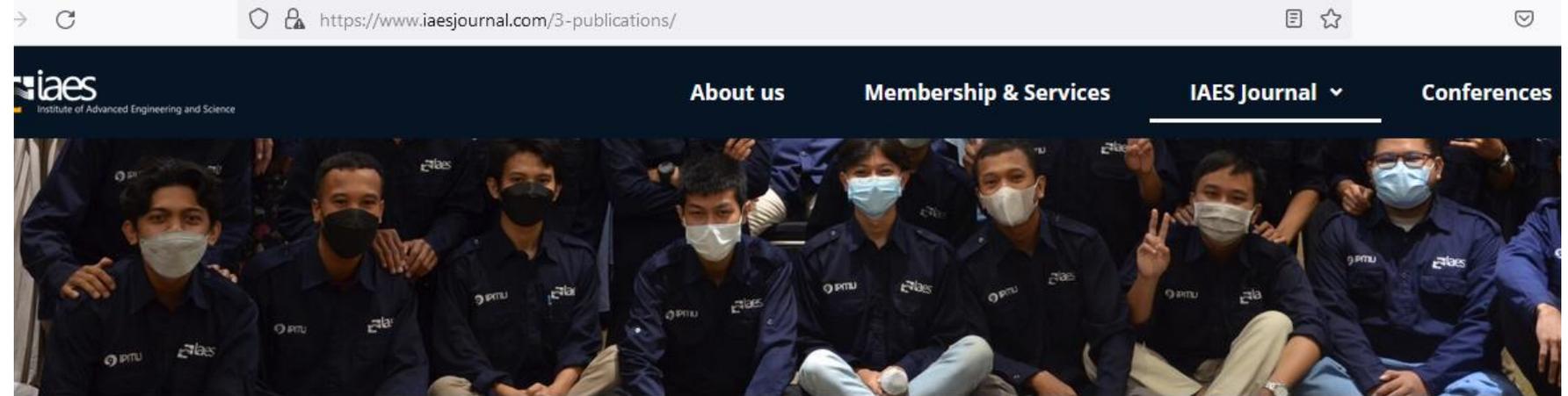
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# Topik Penelitian

## Menemukan Topik Penelitian



### International Journal of Electrical and Computer Engineering (IJECE)

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# Topik Penelitian

## Menemukan Topik Penelitian



The screenshot shows a web browser window with the URL <https://www.kaggle.com/datasets/fedesoriano/the-boston-houseprice-data>. The page features the Kaggle logo and navigation menu on the left, including options like 'Create', 'Home', 'Competitions', 'Datasets', 'Models', 'Code', 'Discussions', 'Learn', and 'More'. The main content area displays the dataset title 'Boston House Prices-Advanced Regression Techniques' by user 'FEDESORIANO', updated 2 years ago, with 137 views and a 'New Notebook' button. Below the title, it indicates 'The Boston House-Price Data' and provides tabs for 'Data Card', 'Code (59)', and 'Discussion (0)'. The 'About Dataset' section is partially visible, followed by a 'Similar Datasets' section listing 'Gender Pay Gap Dataset' with a link.

# Topik Penelitian

## Menemukan Topik Penelitian



← → ↻ https://archive.ics.uci.edu/ml/datasets/student%2Bperformance



Check out the [beta version](#) of the new UCI Machine Learning Repository we are currently testing! [Contact us](#) if you have any issues, questions,

### Student Performance Data Set

Download: [Data Folder](#), [Data Set Description](#)

Abstract: Predict student performance in secondary education (high school).

Data Set Characteristics:	Multivariate	Number of Instances:	649	Area:	Social
Attribute Characteristics:	Integer	Number of Attributes:	33	Date Donated	2014-11-27
Associated Tasks:	Classification, Regression	Missing Values?	N/A	Number of Web Hits:	1315772

#### Source:

Paulo Cortez, University of Minho, Guimarães, Portugal, <http://www3.dsi.uminho.pt/pcortez>

#### Data Set Information:

# Topik Penelitian

## Menemukan Topik Penelitian



www.arnetminer.org/data

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### AMiner Dataset

Name	Node	Edge	Description
Citation	1572277 papers	2084019 citation relationships	Citation network
Academic Social Network	2,092,356 papers/1,712,433 authors	8,024,869 citation relationships/4,258,615 coauthor relationships	citation and coauthor networks
Advisor-advisee	4794 authors	2164 advisor-advisee,3932 coauthor relationships	Advisor-advisee network
Topic-coauthor	640134 authors of 8 topics	1554643 coauthor relationships	Topic based Coauthor network
Topic-paper-author	33739 authors of 5 topics	139278 coauthor relationships	Created for cross domain recommendation
Topic-citation	2329760 papers	12710347 citations relationships	Topic based citation network
Kernel Community	8000 papers of 27 conferences		Created for community detection
Dynamic coauthor	1629217 authors	2623832 coauthor relationships	An evolving coauthor network with 27 time stamps
Research Profiling	898 files		Created for researcher profile extraction
Citation link annotation	155 citation pairs		Created to study the semantics of the citation relationships

# Topik Penelitian

## Menemukan Topik Penelitian



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Recent text-to-video generation approaches rely on computationally heavy training and require large-scale video datasets.

[Image Generation](#) [Text-to-Video Generation](#) +3

[Paper](#)  
[Code](#)

#### LLaMA-Adapter: Efficient Fine-tuning of Language Models with Zero-init

★ 250

# Topik Penelitian

## Menemukan Topik Penelitian



← → ↻ <https://arxiv.org/abs/1509.04238#> ☆

Cornell University We gratefully acknowledge support from the Simons Foundation and member institutions.

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**Computer Science > Databases**

[Submitted on 14 Sep 2015]

### A Practioner's Guide to Evaluating Entity Resolution Results

[Matt Barnes](#)

Entity resolution (ER) is the task of identifying records belonging to the same entity (e.g. individual, group) across one or multiple databases. Ironically, it has multiple names: deduplication and record linkage, among others. In this paper we survey metrics used to evaluate ER results in order to iteratively improve performance and guarantee sufficient quality prior to deployment. Some of these metrics are borrowed from multi-class classification and clustering domains, though some key differences exist differentiating entity resolution from general clustering. Menestrina et al. empirically showed rankings from these metrics often conflict with each other, thus our primary motivation for studying them. This paper provides practitioners the basic knowledge to begin evaluating their entity resolution results.

Comments: Technical report  
Subjects: **Databases (cs.DB)**; Machine Learning (stat.ML)  
Cite as: [arXiv:1509.04238](https://arxiv.org/abs/1509.04238) [cs.DB]  
(or [arXiv:1509.04238v1](https://arxiv.org/abs/1509.04238v1) [cs.DB] for this version)  
<https://doi.org/10.48550/arXiv.1509.04238>

**Submission history**  
From: Matt Barnes [[view email](#)]  
[v1] Mon, 14 Sep 2015 18:57:02 UTC (7 KB)

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Matt Barnes

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# Thank You

Jazakumulloh

