**A REFERENCE-BASED** RECOMMENDATION SYSTEM FOR ACADEMIC PAPERS **ONACEMAP** 

By Jingqi Zhang

Recommendation systems are a useful alternative to search algorithms since they help users discover items they might be interested in.

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## **Recommendation System in Acemap**

Voice Over Internet Protocol Over IEEE 802.11 Wireless Local Area Networks And Effective Admission Control With Transmission Interval Adaptation

VoIP Over WLANs By Adapting Transmitting Interval And Call Admission Control

Info	Keywords	References	Cites	Similar		Download	Algorith	
Similar	10 results				0	<mark>☆☆☆☆☆</mark> 0 commented		
2010 A -https://l Devu Ma	n Interference link.springer.cor nikantan Shila 1	-Aware Admissio n/article/10.1155/2 fricha Anjali	on Contro 2010/106520	Design for Wireless Mesh Networks	5 4 2	☆ 0% ☆ 0%		
					3	A 0%		

## **Recommendation System based on Author's Name**

## **Pricing For Uplink Power Control In Cognitive Radio Networks**

Info Keywords References Cites Similar	
Similar 10 results	
2013 Cardioprotective Effects Of Exenatide Against Oxidative Stress-induced Injury -http://tessera.spandidos-publications.com/10.3892/ijmm.2013.1475 Guanglei Chang, Aihua Zheng, Dongying Zhang, Shu Qin, Ying Wang, Peng Zhang, Hui Yu	
2008 High-performance TCAM-based IP Lookup Engines -http://cial.csie.ncku.edu.tw/presentation/group_pdf/High-Performance_TCAM-based S Q Zheng, Jing Chen, Jianping Wang, Hui Yu	
2016 Fabrication Of Semi-aromatic Polyamide/spherical Mesoporous Silica Nanocomposite Reverse Osmo Membrane With Superior Permeability -http://www.sciencedirect.com/science/article/pii/S0169433215030226 Meng Zhang, Feiyang Wu, Xianhui Pan, Jie Song, Qiang Li, Hui Yu	isis
2014 Synthesis Of SBA-15/polyaniline Mesoporous Composite For Removal Of Resorcinol From Aqueous -http://linkinghub.elsevier.com/retrieve/pii/S0169433213021430 Jing Liu, Linhong Tang, Xianhui Pan, Jie Song, Qiang Li, Yi Wang, Hui Yu	Solution
2004 An Improved Detection Algorithm For Multiple Antenna Wireless Systems -http://www.dbpia.co.kr/Article/3406427 Hui Yu, Jiyu Jin, Jaeyoon Jeong, Yongwan Park	
2013 The Messaging Mechanism Based On Multi-Level Feedback Queue Scheduling Algorithm -http://www.researchgate.net/publication/271969810_The_Messaging_Mechanism_Based	

Jiao Hui Xu, Ting Shun Li, Hui Yu

## **Problems**

. . .

 Authors having the same name
The author has papers in different fields

## **Recommendation System based on Reference**

- Based on Neighborhood Algorithm and Graph Theory
- Strong relativity: 127 million paper + 530 million reference
- High feasibility: can reach the speed of 60-100 recommended paper per second

# Neighborhood Algorithm

In this figure, A, B, C are different papers. A makes direct reference to B1, B1 makes direct reference to C1, so A makes indirect (two-step) reference to C1. The papers which are referenced by A are called A's neighbors.

For another paper D, we can also have D's neighbors.

The similarity of A and D is measured by numbers of the same neighbors they share.



Neighborhood set of paper A

## Paper Network Based on Reference



## Neighborhood Algorithm based on Reference

**Retrieval Precision** 

**Calculating Speed** 

**Searching Breadth** 

## Author's Name-based vs. Reference-based

#### An Empirical Study Of Top-n Recommendation For Venture Finance

Info Keywords References Cites Sin	nilar							
Similar 3 results								
2014 Computational Analytics For Venture Finance -http://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.634630 Thomas Stone 2013 PredictionIO: A Distributed Machine Learning Server For Practical Software Development -http://dl.acm.org/citation.cfm?id=2505515.2508198 Kit Pang Szeto, Ka Hou Chan, Thomas Stone, Simon Chan								

## •Recommendation System based on Author's Name

### An Empirical Study Of Top-n Recommendation For Venture Finance



## •Recommendation System based on Reference

Effectiveness improved compared to the current Acemap recommendation system.

## Infocom 2018 Recommendation System



# Multi-dimensional Recommendation

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IEEE Transactions on Multimedia

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- Cem Tekin, Luca Canzian, Mihaela Van Der Schaar

#### 2015 A Survey Of Millimeter Wave Communications (mmWave) For 5G: Opportunities And Challenges

Wireless Networks

- Yong Niu, Yong Li, Depeng Jin, Li Su, Athanasios V Vasilakos

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## Visualization



# **Make Academia Visible!**

## Session Map

## The sessions on that map cluster naturally by the force of citation.



# THANKYOU !