

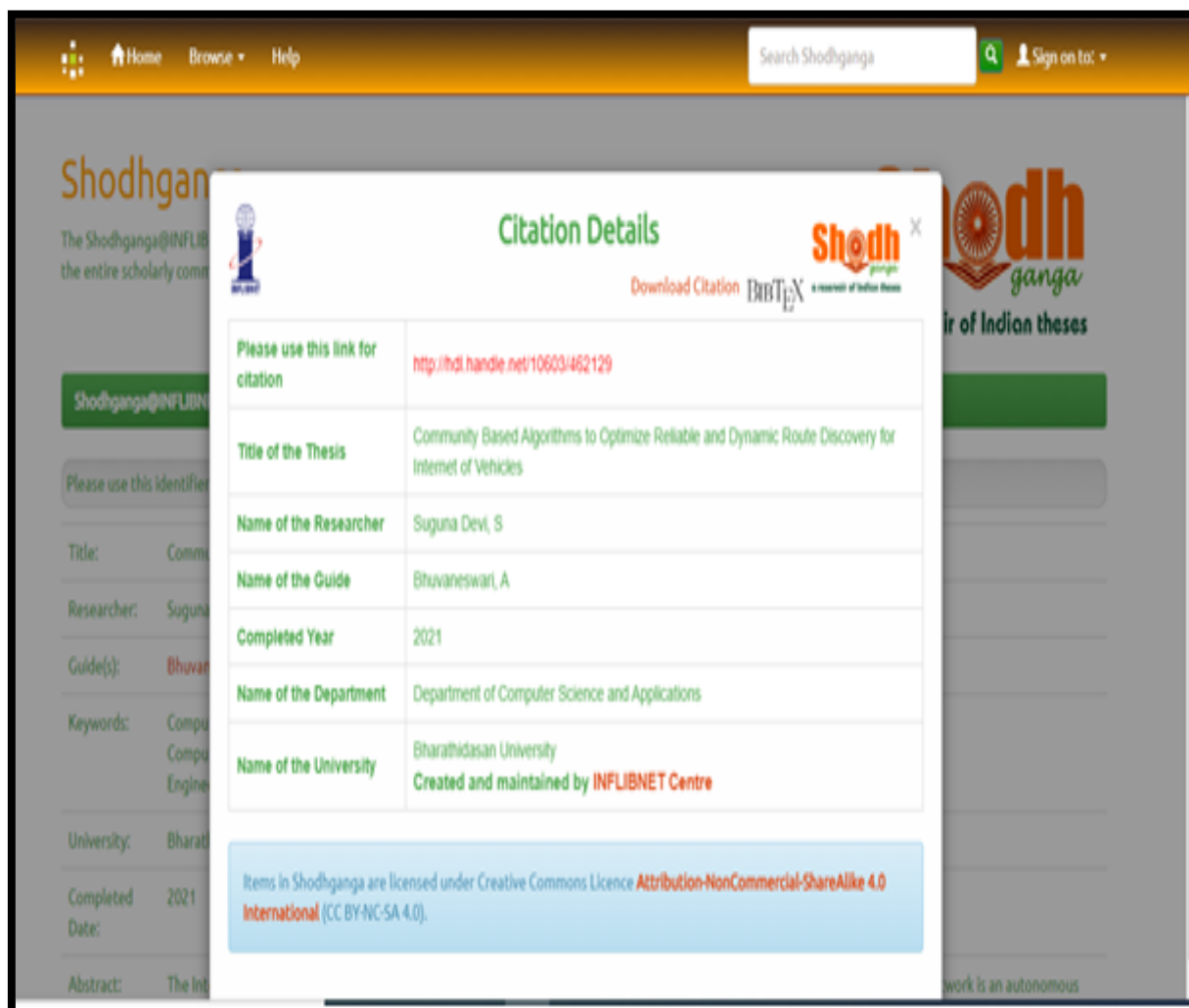


Key Indicator - 4.2 Library as a Learning Resource


4.2.1 Library is automated with digital facilities using integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

E-resources


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| Please use this link for citation | http://hdl.handle.net/10603/462129 |
| Title of the Thesis | Community Based Algorithms to Optimize Reliable and Dynamic Route Discovery for Internet of Vehicles |
| Name of the Researcher | Suguna Devi, S |
| Name of the Guide | Bhuvanewari, A |
| Completed Year | 2021 |
| Name of the Department | Department of Computer Science and Applications |
| Name of the University | Bharathidasan University Created and maintained by INFLIBNET Centre |

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Researcher: Suguna Devi, S

Guide(s): Bhuvanewari, A

Keywords: Computer Science
Computer Science Artificial Intelligence
Engineering and Technology

University: Bharathidasan University

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COMMUNITY BASED ALGORITHMS TO OPTIMIZE RELIABLE AND DYNAMIC ROUTE DISCOVERY FOR INTERNET OF VEHICLES



Thesis
Submitted to the
BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI
in partial fulfillment of the requirements for the degree of
DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE

Research Scholar
Mrs. S. Suguna Devi
(26534/Ph.D.-K3/Computer Science/ Part Time/ January/ Date: 09.01.2018)

Research Supervisor
Dr. A. Bhuvaneshwari,
Associate Professor



PG & Research Department of Computer Science
CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS),
Nationally Accredited (3rd Cycle) with 'A' Grade
ISO 9001 : 2015 Certified
Tiruchirappalli-620 018.

July 2021



DR.A.BHUVANESWARI

Research Supervisor

Associate Professor

PG & Research Department of Computer Science

Cauvery College for Women (Autonomous) Tiruchirappalli-620 018, Tamil Nadu,
India.

CERTIFICATE

This is to certify that the thesis titled " **Community Based Algorithms to Optimize Reliable and Dynamic Route Discovery for Internet of Vehicles**" submitted by **Mrs. S. Suguna Devi**, a research scholar in **PG & Research Department of Computer Science, Cauvery College for Women (Autonomous), Tiruchirappalli - 620 018, Tamil Nadu, India** for the award of the Degree of **Doctor of Philosophy in Computer Science**, is a record of original work carried out by her under my supervision and guidance. The thesis has fulfilled all the requirements as per the regulations of the University and in my opinion the thesis has reached the standard needed for submission. The results embodied in this thesis have not been submitted to any other university or institute for the award of any degree or diploma.

Date:

Place: Tiruchirappalli.

Research Supervisor

Dr.A.Bhuvaneshwari



CHAPTER I

INTRODUCTION

1.1 PREFACE

Vehicular Adhoc Network (VANET) is a wireless multi-hop network with limitation of random topology variations because of fast node mobility. It is a sub-type of Mobile Adhoc Networks (MANETs) which is developed with the moving vehicles. The main application of VANET is to provide the Internet connectivity for the vehicular nodes. It transmits data through a large number of vehicles and VANET also provides a large range of applications like prevention of accidents, safety, blind crossing, dynamic route scheduling, etc.

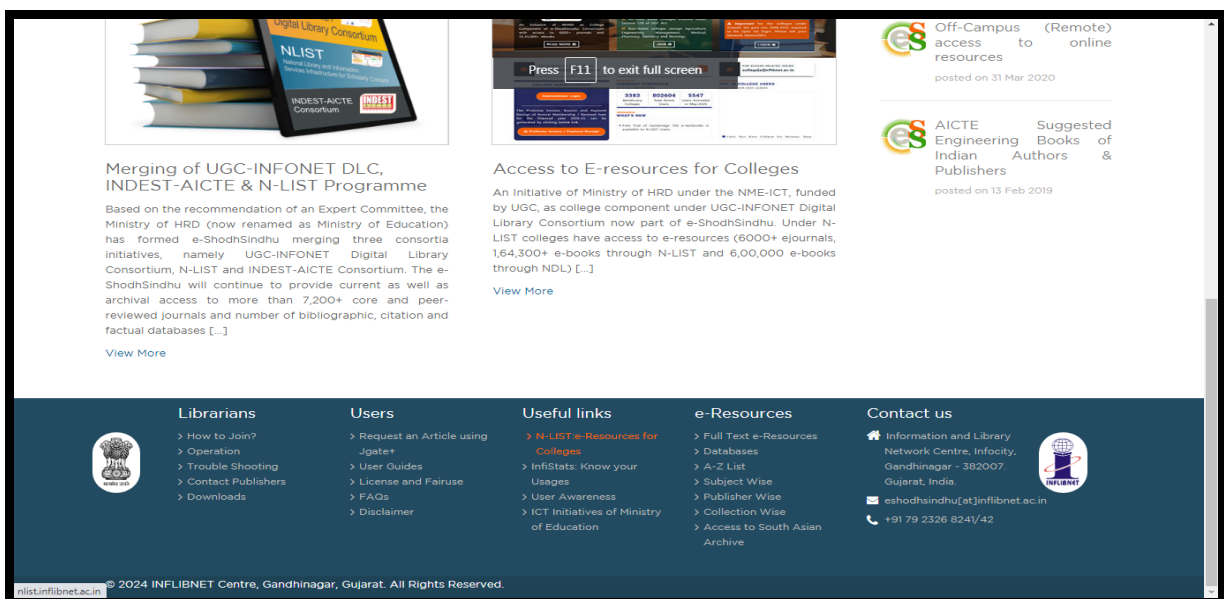
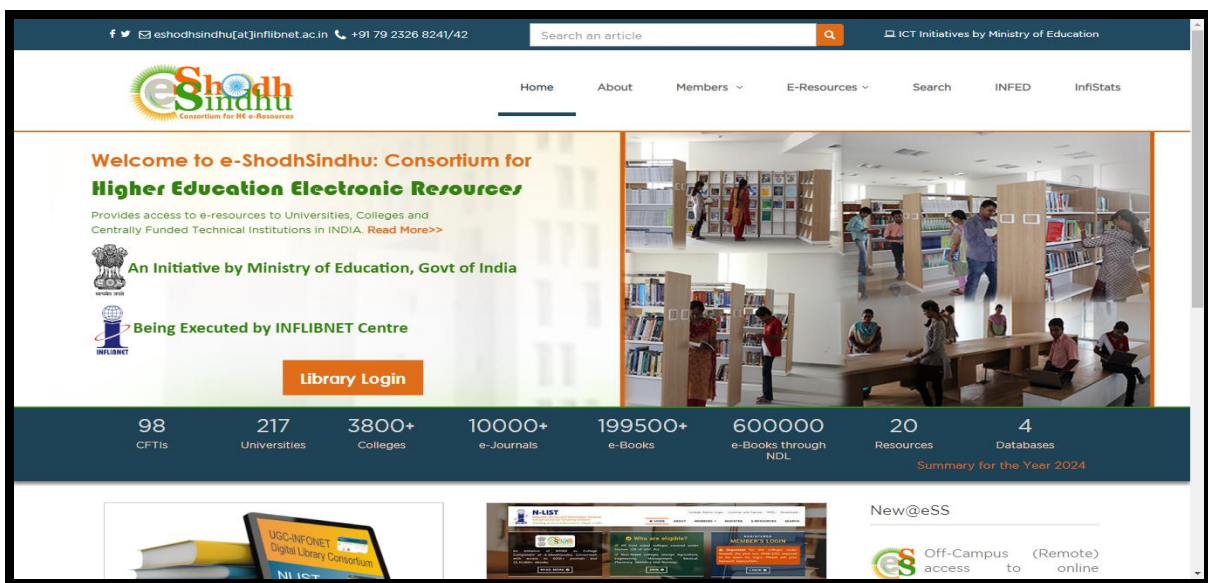
Internet of Things (IoT) is a worldwide network which links the smart objects to communicate with each other. The smart objects are being linked with the Internet. Internet of Vehicles (IoV) is a subcategory of Internet of Things (IoT). IoV is an extension of IoT which is an intelligent transportation. It provides essential data like sensing and processing platforms for intelligent transportation systems. A vehicle with a sensor platform with a large amount of information obtained from the environment and other vehicles which is used for safety navigation of drivers, pollution control and traffic management.

Internet of Vehicles (IoV) is the distributed network which utilizes the data generated by linked cars and VANETs. IoV is employed to perform the following types of network communication. Intra-Vehicle systems monitor the



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| • Springer Link 1700 Collection and Nature Journal | 200 Institutions | 1725 Journals | |
| Taylor and Francis (https://think.taylorandfrancis.com/journals-access-under-eshodhsindhu-consortium/) | | | more |
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| JGate Plus (JCCC) (https://jgatenext.com/search) | | | more |
| • JGate Plus (JCCC) | 194 Institutions | | |
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| <p>Nano Letters</p> <p>Publisher: American Chemical Society Subject: Physics ISSN: 1530-6984 e-ISSN: 1530-6992 Access Period: 2001-01-01 -</p> | (Serial) |
| <p>Nouvelles Études Francophones</p> <p>Publisher: University of Nebraska Press Subject: Language & Literature ISSN: 1552-3152 Access Period: 2004-10-01 - 2011-10-01 Coverage Note: 5 years</p> | (serial) |

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10

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|------------------------|
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| Agricultural Science |
| Anthropology |
| Applied Mathematics |
| Aquatic Sciences |
| Archeology |
| Architecture |
| Area Studies |
| Area Studies-Africa |
| Area Studies-Asia |

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| <input checked="" type="checkbox"/> ACM Digital Library | (1162) |
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| <input checked="" type="checkbox"/> American Physical Society | (17) |
| <input checked="" type="checkbox"/> Annual Reviews | (43) |
| <input checked="" type="checkbox"/> ASCE Journals Online | (36) |
| <input checked="" type="checkbox"/> ASME Journals Online | (33) |
| <input checked="" type="checkbox"/> JSTOR | (3165) |
| <input checked="" type="checkbox"/> Oxford University Press | (262) |
| <input checked="" type="checkbox"/> Project Muse | (731) |
| <input checked="" type="checkbox"/> Springer Link | (1725) |
| <input checked="" type="checkbox"/> Taylor and Francis | (1078) |

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Institutes may contact the publisher or vendors directly for purchase of these books.

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BASIC SCIENCE COURSES

List of Recommended Books:

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1. Engineering Physics, Malik and Singh, Tata Mc Graw Hill
2. Engineering Physics, Naidu, Pearson
3. Mechanics, Mathur, S.Chand Publishing
4. Classical Mechanics, Upadhyaya, Himalaya Publishing House
5. Classical Mechanics, G. Aruldas, PHI
6. Engineering Physics, Gupta & Gaur, Dhanpat Rai
7. Quantum Mechanics, Ajay Ghatak S. Lokanathan, Trinity
8. Quantum Mechanics: A Text Book for undergraduates, Mahesh C Jain, TMH
9. Text Book of Quantum Mechanics, M. Mathews & Venkatesan, TMH



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E-RESOURCES

The screenshot shows a web browser window displaying the search results for 'knowledge' on the eShodh Sindhur Knowledge Finder platform. The search results are sorted by Relevance and show 20 results out of a total of 248,532. Two results are visible:

- 1** **Powerful knowledge, esoteric knowledge, curriculum knowledge**
by John Beck
Published in Cambridge Journal of Education (2013)
Get full text
journal-article Abstract Save to List
- 2** **Powerful knowledge, disciplinary knowledge, curriculum knowledge: educational knowledge in question**
by Johan Muller
Published in International Research in Geographical and Environmental Education (2023)
Get full text
journal-article Abstract

On the right side, there is a 'Refine Results' section with a 'Library' filter. The following table shows the number of results for each library:

| Library | Count |
|----------------------------|--------|
| Emerald Publishing | 41,331 |
| Elsevier ScienceDirect | 35,348 |
| Springer Nature | 27,242 |
| Cambridge University Press | 21,995 |
| Wiley Blackwell Publishing | 21,575 |
| Taylor and Francis | 18,372 |

The bottom of the screenshot shows the Windows taskbar with the time 11:58 AM on 31-Aug-24.



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E-RESOURCES

E-resources - SHODH GANGOTRI

Shodh Gangotri is an online repository managed by the INFLIBNET Centre that provides access to research proposals and pre-thesis work from Indian scholars. This provides valuable insights into ongoing research and emerging academic topics. In college library, Shodh Gangotri serves as a crucial resource for students and researchers by enabling them to review research proposals, understand current research trends, and explore methodologies. It enhances research efficiency by allowing users to search for proposals by topic, author, or institution.

Ph.D. programme now it is expanded to MRPs/PDFs/Emeritus Fellowship, etc. The repository on one hand would reveal the trends and directions of research being conducted in Indian universities, on the other hand, it would avoid duplication of research. Synopsis in "ShodhGangotri" would later be mapped to full-text theses in "ShodhGanga". As such, once the full-text thesis is submitted for a synopsis, a link to the full-text theses would be provided from ShodhGangotri to "ShodhGanga".

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| Mangalore University | 421 | Mahatma Gandhi University | 369 | Jayoti Vidyapeeth Women's University | 485 |
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Shown below is a list of universities and the Departments and sub-communities within them.

- 01_Major-Minor Research Project **27**
 - Adikavi Nannaya University **2**
 - Department of Electronics [2]
 - Dayalbagh Educational Institute **1**
 - Department of Home Science [1]

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or enter first few letters:

Sort by: In order: Results/Page: Authors/Record:

Showing results 1 to 20 of 14709 [next >](#)

| Upload Date | Title | Researcher | Guide(s) |
|-------------|---|---------------------------------|-------------------------|
| 22-Nov-2018 | 1 A STUDY ON CYBER CRIME AND IT S INVESTIGATION WITH SPECIAL REFERENCE TO PUNE DISTRICT | KASTURE AAMRAPALI VIJAYKUMAR | DHESHMUKH R. B. |
| 2-Dec-2020 | 12 te 19 Varsha wayogatatil Shaleya Vidyarthyanच्या Manasshastriya Sharirik Sudhradtechya Nivdak Bhatkavar Yogik Prakriyecha Parinam | Hurdikhe Jyotiba Nivrutti | Kingle B D |
| 27-Apr-2023 | 17 Te 19 Varsh Vayogadatil Holiboli Kheladuchya Sharirik Shamatevar V Vyaktimatvarar Yogasan V Nivdak Vyayam Prashishan Karykramacha parinam Ek Tulanatmak Abhyas | Hande V D | Bembde Mahesh |
| 19-Aug-2024 | 17 Varsha Khalil Mule V Muli Yancha Bokshing Ya Khelatit Kamgirivar Honara Manas Shastriy Parinamacha Abhyas | Mnatre Nilam | Waghmare K |
| 18-May-2016 | 1857 ki pehli jang e azadi aur urdu shayri | Syed Imaduddin | Khan Yousuf Khan Jabbar |
| 18-May-2016 | 18th century the king of surajmal and jawahar singh work for modification in Bhartpur Distrect | Varshney Lata | Indira Agrawal |



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|---------------------------------|---|--------|
| (Biswas) Sarkar, Shampa | 1 | |
| (Dr.) Mini Amit Arrawatia | 1 | |
| -- | 8 | |
| DHIREN P. SHAH | 1 | |
| K. Jeya prakash | 1 | |
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 Use filters to refine the search results.

Results/Page | Sort items by In order Authors/record

Results 1-10 of 14773 (Search time: 0.006 seconds)

previous ... next

Discover

| Researcher/Guide | |
|---------------------|---|
| Ahuja, Sona | 1 |
| Chandrashekara, H.L | 1 |
| Kumar, Chandan | 1 |
| Praveena, K. B. | 1 |
| Shahid Ali | 1 |
| Venkateshwarlu, H. | 1 |

| Keyword | |
|------------|------|
| Ill | 5247 |
| Management | 272 |
| S | 242 |
| Education | 201 |



CRITERION IV

E-RESOURCES

The screenshot shows the Shodhgangotri repository interface. At the top, there is a navigation bar with 'Home', 'Browse', and 'Help' links, a search bar, and a 'Sign on to' dropdown. The main header displays 'Shodhgangotri' and 'Repository of Indian Research in Progress' along with the Shodhgangotri logo. A green banner indicates the source: 'Shodhgangotri@INFLIBNET / University of Calicut / C H Mohammed Koya Library'. Below this, a message asks to use the identifier <http://hdl.handle.net/20.500.14146/13961> for citation. The item details are listed in a table-like format:

| | |
|-------------------------|---|
| Title: | ENVIRONMENTAL SUSTAINABILITY OF UNIVERSITY LIBRARIES IN KERALA |
| Researcher: | Bincy O K |
| Guide(s): | Vasudevan T.M. |
| University: | University of Calicut |
| Registration Date: | 2021 |
| Abstract: | newline |
| URI: | http://hdl.handle.net/20.500.14146/13961 |
| Appears in Departments: | C H Mohammed Koya Library |

At the bottom, there is a section titled 'Files in This Item:'.

The screenshot shows a PDF document viewer displaying a research proposal. The title is 'ENVIRONMENTAL SUSTAINABILITY OF UNIVERSITY LIBRARIES IN KERALA'. The text reads: 'Research Proposal submitted by BINCY O.K Under the supervision of Dr. Vasudevan T.M.' At the bottom center, there is a red circular logo of the University of Calicut.



The screenshot shows a document with the following content:

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Proper metadata creations is very important for locating as well as for inter changing Resources with between systems. Filling upon the data is to be done with care and diligence any error entered during the creation of metadata will lead into wrong display of Synopsis information. Special characters need to be avoided during entry else data base will not accept the metadata and it will be stored in trash and system will not generate any auto feedback for such entry so that will make it difficult to our technical person to identify such unfinished and special character field metadata.

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NB:- Please avoid special characters in title text filled. Kindly ensure to provide abstract, 10 keywords without failure. Please get back to us if you have any query at shodhgangotri@inflibnet.ac.in

An Example of Metadata on "Shodhgangotri" Interface