



Universitat d'Alacant
Universidad de Alicante



El póster científico

Sergio Luján Mora

Poster

- Definición:
 - Presentación visual de un trabajo científico
- Tamaño:
 - A2, A1, A0
- Uso:
 - Hacer visible el trabajo en la propia institución, en una reunión científica
 - Hacer visible el trabajo en un encuentro científico
- Control de calidad:
 - *Program committee* (si lo hay)

- Una lectura rápida (3 páginas):

“How to make an academic poster”

Buket Gundogan, Kiron Koshy, Langhit Kurar,
Katharine Whitehurst

Annals of Medicine and Surgery 11 (2016) 69e71



Contents lists available at [ScienceDirect](#)

Annals of Medicine and Surgery

journal homepage: www.annalsjournal.com



How to make an academic poster



Buket Gundogan^{a, *}, Kiron Koshy^a, Langhit Kurar^b, Katharine Whitehurst^a

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HIGHLIGHTS

- Academic posters are an excellent way for trainees to showcase their work at conferences and meetings.
- When done effectively they provide a succinct and attractive summary of your project.
- This guide aims to provide trainees with a practical and concise method to prepare their academic poster.

ARTICLE INFO

Article history:

Received 14 February 2016

Received in revised form

2 September 2016

Accepted 4 September 2016

Keywords:

Academic poster

Poster

How to

Poster presentation

ABSTRACT

Academic posters are an excellent way to showcase your work at conferences and meetings. They can be used in poster presentations and serve as a summary of your project. In this how to article, we demonstrate how trainees can make and deliver a successful academic poster.

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¿CÓMO SE PRESENTA EL PÓSTER?



An Architecture to Enhance a Reference Management System with Recommendations from Open Linked Data

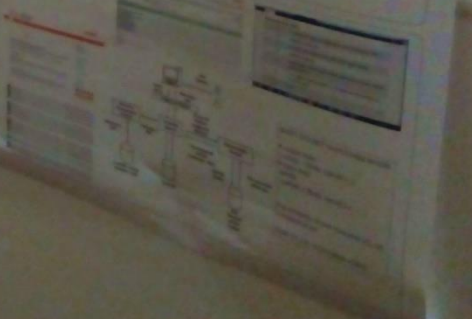
David H. Gustafson, University of Toronto
Department of Software and Computing Systems
Alexander S. Iltis, University of Toronto
Department of Software and Computing Systems

Reference management software (RMS) is essential to open and to the practitioners in different citing formats. The system is designed to provide the user with the ability to search, analyze and management of references. The system is designed to provide the user with the ability to search, analyze and management of references. The system is designed to provide the user with the ability to search, analyze and management of references.

PROBLEM
Reference management is a complex task for researchers. As a result, the researchers often waste time in identifying the most relevant references and most of the relevant references are not used. The search for relevant works is a hard, time-consuming task for researchers. The system of reference management is designed to help researchers.

SOLUTION
A reference management system including a content-based filtering algorithm is designed to help researchers. The system is designed to help researchers. The system is designed to help researchers. The system is designed to help researchers.

ARCHITECTURE
The architecture of the reference management system is designed to help researchers. The system is designed to help researchers. The system is designed to help researchers.



Poster on the left with a red header and a large red circle. The text is mostly illegible but appears to be related to the same research area.



Smart MOOC: Social Computing for Learning and Knowledge Sharing

Amal Ghosh, Sanku Bhattacharya, Sanjay Kumar Choudhary, Manoj Kumar Mishra, Education - Jadavpur University

Abstract
Massive Open Online Courses (MOOC) have got its educational technologies to deliver content through internet where the content creator with a support to build a substantial number of learners' reputation of their geographical locations, of having achievements in terms of completion of course and generation of content being dynamically shared to support online learning activities. This has provided a suitable learning environment to support online learning activities, and a benefit of an activity to other participants in MOOC, supported by their extensive engagement in online learning, with the help of social computing. Therefore, it is necessary to design a system where social people may come to share their learning through the generation of reputation towards the completion of course. They have supported their activities to enhance MOOC reputation in online.

Problem Statement Identify the activities of MOOC in terms of reputation and learning activities, supported by internet based technologies, knowledge sharing activities.

Challenges of MOOC in Online
• Online reputation and learning activities
• Online reputation for learning activities
• Low performance in online learning activities

Findings Study of Social Computing, Internet Reputation and Social Media usage online activities.

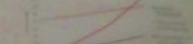


Figure 1: Study of online reputation activities

Figure 2: Study of online reputation activities



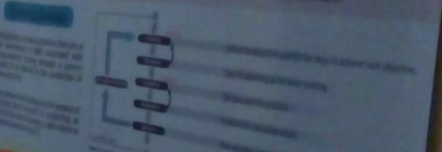
Figure 3: Study of online reputation activities

Figure 4: Study of online reputation activities

A Methodology to Conduct Computational Thinking Activities in Children's Educational Context

Arpana K. Choudhary, Department of Education, Jadavpur University, Kolkata, India
Computational Thinking - Computational Thinking Methodology - Creative Teaching - Instructional Methods

Abstract
Computational thinking (CT) is a problem-solving approach that involves breaking down a complex problem into smaller, more manageable parts. This approach is used in various fields, including computer science, engineering, and business. In this paper, we propose a methodology to conduct CT activities in children's educational context. The methodology is based on the following steps: 1. Identify the problem, 2. Break down the problem into smaller parts, 3. Solve the smaller parts, 4. Combine the solutions to solve the problem. The methodology is supported by a flowchart and a graph showing the relationship between CT activities and children's learning outcomes.



Five Steps to Online Learning

1. Identify the problem
2. Break down the problem into smaller parts
3. Solve the smaller parts
4. Combine the solutions to solve the problem

5. Evaluate the solution

6. Reflect on the learning process

7. Apply the learning to other contexts

8. Collaborate with others

9. Communicate the results

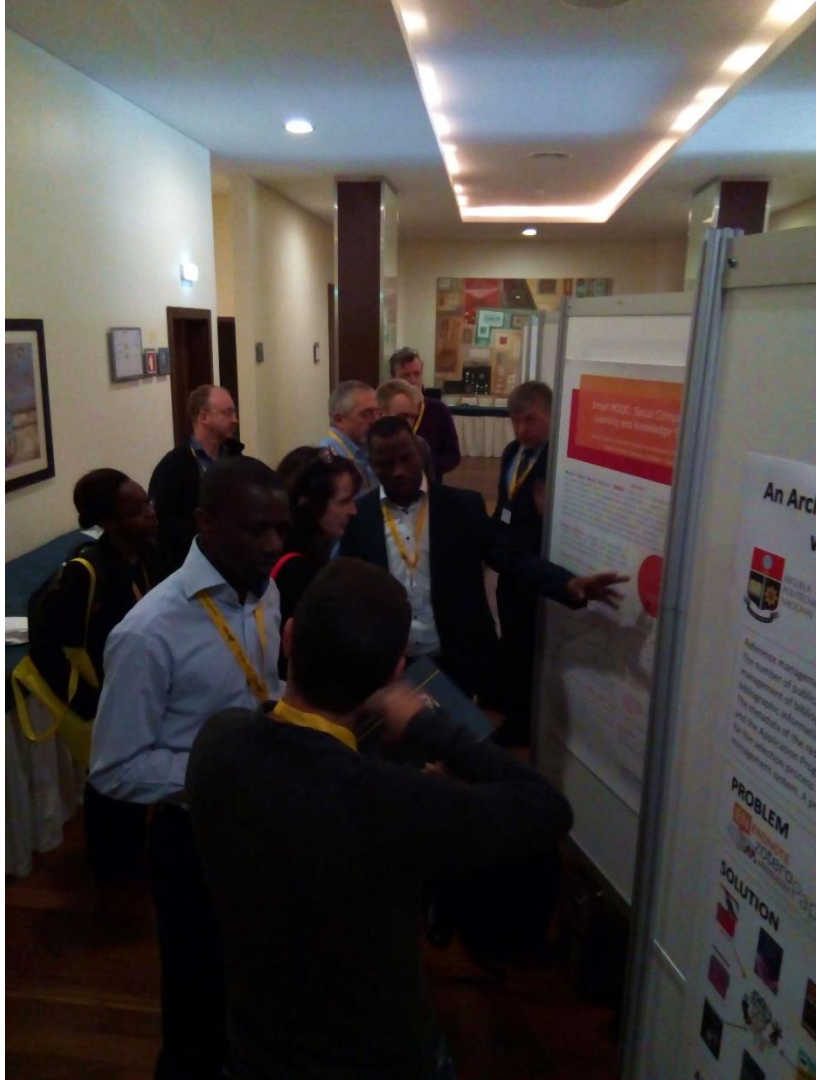
10. Evaluate the results

11. Reflect on the learning process

12. Apply the learning to other contexts

13. Collaborate with others

14. Communicate the results



El objetivo principal debería ser...

An opportunity to give and get information

Think about it. A poster session is an opportunity for you to tell others about your work. It is an opportunity for you to receive constructive comments, criticism and suggestions about your work. And your poster is an advertisement for both you and your laboratory. What a shame to botch such an opportunity by putting up an illegible, boring, overcrowded poster. But it's more than just a shame: others may judge both you and your work – and maybe even your laboratory – by your poster!

B.S. Brown, Communicate your science!. Producing punchy posters, Trends Cell Biol. 6 (1996) 37e39.

Pero el objetivo real es...

- Lo más importante: ¿se publica un artículo asociado al póster?
- Una vez se tiene el artículo publicado en las actas, no se suele indicar cómo fue presentado

- Instrucciones de congresos en las que se explica que los pósteres son publicados en las actas:



Paper Format and Submission

ICEDEG 2018

- [About](#)
- [Call for Papers](#)
- [Call for Tutorial Proposals](#)
- [Conference Program](#)
- [Conference Venue](#)
- [Doctoral Symposium](#)
- [Important Dates](#)
- [Keynotes and Tutorials](#)
- [Paper Format and Submission](#)
- [Registration ICEDEG 2018](#)
- [Workshops](#)

All manuscripts should be written in **English** and submitted in PDF format. The review process is, [peer review and double blind](#), the names of authors should not be included, only accepted papers will be requested to include names. There are three paper submission categories:

- **Long Paper (Scientific Paper).** Submissions should report on substantial contributions of lasting value. The length is 6 to 8 pages. Each accepted paper will be presented either in a plenary session as part of the main conference or in a poster session. The presentation may include a system demonstration. We expect the review process to be highly selective. *Papers that do not respect the minimum and maximum length and include the name of authors will be automatically rejected.*
- **Short Paper (Case Studies or practical research).** Submissions typically discuss exciting new work that is not yet mature enough for a scientific paper such as case studies. The length is 4 to 6 pages. Each accepted paper will be presented either in a plenary session as part of the main conference or in a poster session. The presentation may include a system demonstration. *Papers that do not respect the minimum and maximum length and include the name of authors will be automatically rejected.*
- **Poster Papers.** Submissions that present new ideas and initiatives with potential to advance the state of research and state of practice in the field. The length is up to 4 pages. Each accepted paper will be presented in a poster session. *Papers that do not respect the maximum length and include the name of authors will be automatically rejected.*

For additional information you can contact us to: paper-submission@edem-egov.org.



THE WEB CONFERENCE

LYON, FRANCE
23 - 27 April 2018



CFP for POSTERS

The Poster Track is a forum to foster interactions among researchers and practitioners by allowing them to present their new and innovative work in-progress. The poster session will give conference attendees an opportunity to learn novel on-going research projects through informal interactions. Submitted posters are expected to be aligned with one or more of the relevant topics to the The Web Conf community. The Poster Track covers the same topic areas as the main conference.

Posters will be peer-reviewed by members of the Poster Committee based on originality, significance, quality, and clarity. Poster authors are not required to transfer copyright. Accepted poster papers will be allocated 2 pages in the conference proceedings. In addition to the 2-page submission, accepted poster authors will be asked to create a print poster. In addition, they may submit an electronic poster to be displayed in a dedicated poster area, and present their work during the poster session at the conference.



Position Papers

Submission: Position Papers should be submitted for review with around 6 or 7 pages, with the appropriate font size and page format, including references, tables, graphs, images and appendices. Submissions with less than 4 pages or more than 9 pages will be automatically rejected.

Acceptance: After a double-blind peer review, qualifying Position Papers will be accepted as Short Papers.

Presentation: Position Papers are given either a 20' minutes slot for an oral presentation or assigned to present at a Poster Session. Authors who have been assigned an oral presentation may however also choose to present at a Poster Session instead, should they prefer it.

Publication: Position Papers will be assigned a 8-page limit in the Conference Proceedings, which will include final versions of all accepted papers, adjusted to satisfy reviewers' recommendations. If absolutely necessary, authors may increase the total number of pages by a maximum of 4 extra pages, for an additional fee. The total number of pages to consider is the number obtained after the paper has been correctly formatted according to the appropriate template. The Conference Proceedings will be published under an ISBN number by SCITEPRESS, on paper and CD-Rom support, and made available for online consultation at the SCITEPRESS Digital Library. Online publication is exclusive to papers which have been both published and presented at the event.

Indexation: The proceedings will be submitted to Thomson Reuters Conference Proceedings Citation Index (CPCI/ISI), INSPEC, DBLP, EI (Elsevier Engineering Village Index) and Scopus for indexation.

Schematic Summary



MIS EJEMPLOS



Integration of Web Accessibility into Agile Methods



Sergio Luján-Mora, Firas Masri

Department of Software and Computing Systems, University of Alicante, Spain

about:blank

← → ↻ 🔍 ABSTRACT

In a short period of time, the World Wide Web has had a huge impact on our society and lives. In web sites and web applications, **accessibility** and usability are essential key requirements. Unfortunately, most web sites are **inaccessible** to many disabled people and fail to satisfy the most basic standards for **accessibility**. Many of the barriers people with disabilities face on the Web are completely avoidable and the disadvantage associated with disability can be entirely overcome. To support the **accessibility** of web sites, different **accessibility** guidelines and standards have been introduced for the last ten years. Nevertheless, a web site can meet **accessibility** standards, but it can still difficult for people with disabilities to use it. Moreover, web **accessibility** has been often an afterthought in the development process of web sites. In many cases, web developers provide an adaptation or a fix to the interface of a web site after it has been released to the public. In this paper, we argue that the adoption of **agile software development methods** can help to improve the **accessibility** of web projects. Besides, the integration of **accessibility** into **agile methods** is proposed.

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← → ↻ 🔍 AGILE ACCESSIBILITY

Manifesto for Agile Software Development	Agile Accessibility
Individuals and interactions	Cooperation between people participating in the design and implementation must be encouraged. Everyone in a development team must be engaged with web accessibility .
Working software	From the beginning of a project, web site prototypes should be delivered with accessibility in mind. Accessibility testing must be done from the early stages of a project and must not be postponed to the end of the project. Accessibility testing must be run continuously and must be automated.
Customer collaboration	It is very important to have instant access to feedback from disabled people: accessibility user testing is the best technique to identify (and later correct) accessibility problems. Accessibility user testing highlights important accessibility problems and leads to rate the severity of the problems correctly and prioritize the impact of accessibility problems.
Responding to change	Traditionally, user interfaces have been created assuming that users have concrete tasks or goals in mind, but when users surf the Web, their goals shift and change as they find their way through the Web. There is a clear shift in the effort of a web project: whereas in the past, the main part of the working effort was invested in programming, nowadays the main effort is put on the maintenance and the adaptation to the new requirements and functionalities.



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Department of Software and Computing Systems



This work has been partially financed by the MESOLAP (TIN2010-14860) project from the Spanish Ministry of Science and Technology (currently Ministry of Economics and Competitiveness)

An Architecture to Enhance a Reference Management System with Recommendations from Open Linked Data



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Department of Software and
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Alicante (Spain)



Reference management software helps students and researchers to store and to cite publications in different citing formats. The number of publications grows each year and the researchers devote so much time to the retrieval, analysis and management of bibliographic information. We present a framework to support the search, download and management of bibliographic information. A content-based recommender module based on Open Linked Data is included into the framework. The metadata of the research publications and the corresponding PDF files links are extracted using the recommender module and the Application Program Interface from the Directory of Open Access Journals (DOAJ). The results are presented to the user for the selection process. The metadata of the selected publications are stored in a local database integrated in a bibliographic management system. A prototype was developed and was tested with information from DOAJ.

PROBLEM



Reference management is a hard task for researchers. At present, the researchers have access to more information than they can consume and most of the retrieved publications are not so relevant. The search for related work is a hard consuming task for researchers. The number of publications grows each year.

SOLUTION



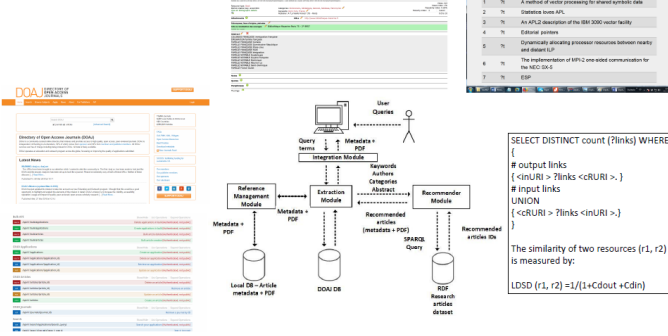
A framework for a reference management system including a content-based filtering recommender approach based on **Open Linked Data** for open access to scientific publications.

A recommender system for research publications is a useful application to help researchers to know the state of the research in a specific topic. A good recommender system is one that recommends the most relevant items considering the user preferences and goals.

The information is extracted from the **Directory of Open Access Journals (DOAJ)** for the initial search combined with information from **ACM publication metadata** for the recommendations.

The retrieved publications are stored in **Wikindx**, a free bibliographic and quotations/notes management and article authoring system.

ARCHITECTURE



PROTOCOLO DE PRESENTACIÓN

- Revisad las instrucciones concretas de cada congreso

CSEDU 2018

10TH INTERNATIONAL CONFERENCE ON COMPUTER SUPPORTED EDUCATION

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Actions

On-line Registration

- Registration Fees
- Deadlines and Policies

Submit Paper

- Guidelines
- Templates
- Glossary

- Author's Login
- Reviewer's Login

Information

Conference Details

- Important Dates
- Technical Program
- Social Event
- Call for Papers
- Program Committee

Presentation Details

Poster Presentations at the Conference, Special Sessions and Workshops

Posters will have dedicated sessions on the technical program of the conference, during which authors must be next to their poster to answer questions. The poster must not exceed the A0 (84 cm X 118 cm) portrait format. Please use an appropriate font size for the posters so that they are readable by the participants from 1.5 meter away. The poster message should be clear and understandable even without oral explanation. Please assure the poster is placed on the board before the beginning of the poster session. Authors are required to stand by their posters during the whole poster session, during which the participation certificates will be distributed. The poster must be printed beforehand and brought along to the conference by the author. Alternatively, the conference may provide a printing and transportation service but you must contact the secretariat at least one month ahead before the conference dates, inquiring about costs and deadlines. Please note that it is not acceptable to print A4 sheets and hang them at the poster board.

Oral Presentations at the Conference, Special Sessions and Workshops

All technical session rooms are equipped with a video projector and a computer running Microsoft Windows with Microsoft PowerPoint and Adobe Acrobat Reader. It is recommended that your presentation is uploaded to PRIMORIS before the conference, which ensures that it will be stored at the aforementioned computer by the time it is needed. However, you may prefer to bring it in a USB drive (also recommended as a backup precaution). Using your own laptop or smart device, as long as it is enabled with VGA output connection is possible but not recommended. The presenter should prepare a set of slides that clearly illustrate the main points of her/his paper, and make sure the presentation fits well within the assigned time slot, leaving at least 5 minutes for a period of question-answering. Should sound be required,

Instructions for Posters/Demonstrations:

Posters/demonstrations will be held in the Grand Caribbean Ballroom (Lobby Level) at The Loews Sapphire Falls Resort, Universal Studios Orlando, Florida.

1. Sessions are scheduled: Monday, July 23, Tuesday, July 24 and Wednesday, July 25, 2018. Posters/Demonstrations will be displayed during the designated timeslots listed in the Final Program: <http://www.ahfe2018.org/posters.html>
2. Posters should be positioned 30 minutes prior to the designated start of the timeslot (Morning Sessions: 10:30 - 12:30 / Evening Sessions: 13:30 - 15:30). Posters should be removed no later than 30 minutes after the end of the designated timeslot.
3. Posters will be mounted on poster boards located at the Grand Caribbean Ballroom (Lobby Level) at The Loews Sapphire Falls Resort, Universal Studios Orlando, Florida (one poster per board) with tacks which will be available on site.
4. The poster boards are 4 feet (height) x 8 (feet) wide. Printed posters should not exceed this size. Poster presenters can mount multiple single sheets of paper, larger posters, pictures, or any printed materials on the boards.
5. Construct the poster to include the title, the author(s), affiliation(s), and a description of the research, highlighting the major elements that are covered in the abstract.
6. Make sure your lettering is neatly done and is large enough to be read from a distance.
7. Equipment needed for demonstrations is the responsibility of the presenter.

- Normalmente, los organizadores habrán preparado los paneles y habrán indicado dónde se debe colgar cada póster

CSEDU Conference

#175

**An Architecture to Enhance a Reference Management System with Recommendations from
Open Linked Data**

María Hallo and Sergio Luján-Mora

- Te quedas al lado del póster durante toda la sesión, esperando que alguien interesado se acerque para hacerte preguntas

An Architecture to Enhance a Reference Management System with Recommendations from Open Linked Data



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Reference management software helps students and researchers to store and cite publications in reference management systems. The number of publications grows each year and the researchers devote as much time to the retrieval, analysis and management of bibliographic information. We present a framework to support the search, discovery and management of bibliographic information. A content-based recommender module based on Open Linked Data is included in the framework. The metadata of the research publications and the corresponding DOI links are extracted using the recommender module and the Application Program Interface from the Directory of Open Access Journals (DOAJ). The results are presented to the user for the selection process. The metadata of the selected publications are stored in a local database integrated in a bibliographic management system. A prototype was developed and was tested with information from DOAJ.



PROBLEM

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SOLUTION



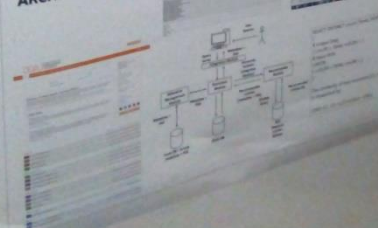
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The information is retrieved from the Directory of Open Access Journals (DOAJ) for the initial search combined with information from ACM publication metadata for the recommendations.

The retrieved publications are stored in **MySQL**, a free relational database management system.

ARCHITECTURE



- Sonríe, se amable, crea un ambiente de discusión y toma nota (¡lleva una libreta!) de las preguntas e ideas que surjan

ERRORES

- Un póster no es un artículo científico

PRECISE VEHICLE POSITIONING FOR INDOOR NAVIGATION VIA OPENXC

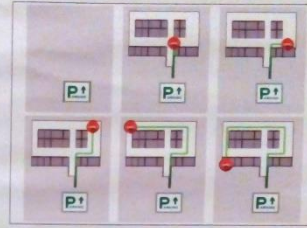
Yusuf Turk Baturay Ozcan Sezer Gören
Department of Computer Engineering, Yeditepe University



Abstract

Abstract

We propose a method for vehicle positioning for indoor locations like parking garages. Our method does not require other external positioning systems such as GPS. Instead, we determine the vehicle position from the vehicle data obtained from an OpenXC dongle attached to the OBD-II interface of the vehicle. An accompanying smartphone application which connects with the dongle via Bluetooth is developed. This application calculates the position of the car and applies the algorithms proposed in this paper to the vehicle data received from the interface. The route of the vehicle is then constructed and displayed on the smartphone screen. As a future work, an assistant application will be developed that guides the driver to the spot where the car was parked before.



Introduction

This paper focuses on offering a route assistance solution for the cases where GPS is not available such as an indoor parking garage multiple levels below the ground. Our solution is based on OpenXC platform (OpenXC Platform, 2011). OpenXC vehicle interface is composed of a microcontroller with two external connections – one to the CAN bus via the OBD-II port, and one to the host device via USB or Bluetooth. It passively listens for a subset of CAN messages, performs required unit conversion or factoring and outputs a generic version to the USB interface. Many vehicle output parameters such as vehicle speed, steering wheel angle, door status, wind shield status, etc. are evaluated and sent through Bluetooth and received by a custom smartphone application developed on iOS or Android operating system. OpenXC API enables the development of custom applications using the information retrieved from the vehicle. The adapter and the smartphone communicate through Bluetooth. In this paper, we developed a smartphone application which uses the real-time values retrieved from OpenXC interface in order to draw and save the route of the vehicle on the indoor map of the parking garage and offer precise vehicle positioning for indoor navigation. In the future, our smartphone application can be updated to guide the driver to the already parked car using the saved route.

Proposed Method

OpenXC supports various number of measurements of a car such as engine speed, steering wheel angle, fuel consumption, accelerator pedal position, ignition status, etc. The data retrieved using the OpenXC API as JSON formatted messages in a class called Vehicle Messages. In our design, we make use of three of the measurement data received through OpenXC vehicle interface: i) steering wheel angle, ii) odometer, and iii) ignition status. Steering wheel angle provides the information about the angle of the steering wheel in degrees in a range from -600 to +600. When the steering wheel is turned to the right, positive values are read in the message and negative when to left. Odometer gives the data of the distance that the vehicle travels as a unit of kilometer between the values 0.18777214 with about 0.2-meter resolution. Ignition status returns as a Boolean value indicating one of the 4 states of the ignition: off, accessory run, and start.

```
Algorithm 1 Check if the car has turned and update the map if it is  
function CheckTurn()   
    if ignitionStatus == OFF && abs(steeringAngle) > turnAngle   
        updateMapPosition()   
        updateMapRoute()   
        updateMapDestination()   
        drawTheRoute()   
    end if   
    if wheelAngle > threshold || wheelAngle < -threshold then   
        turn = true   
    end if   
    if turn == true then   
        updateMapPosition()   
        updateMapRoute()   
    end if   
    if turn == true then   
        updateMapDestination()   
    end if   
end function
```

In our implementation, we have three functions:
I. CheckTurn,
ii. UpdateTurn,
iii. UpdateDirection.

CheckTurn function checks whether the car has turned or not. If so, the route is updated. At the beginning, we consider the ignition status of the vehicle. If it is off and the car is in the parking area, we know that the driver has parked his/her car in a parking spot. Therefore, we update the route and return.

In order to detect a turn, we set a threshold value for the steering wheel angle. If the current angle of the steering wheel exceeds the threshold we assume turn is started or continues when it has already started. Exceeding the threshold means that the angle can be over the positive threshold or below the negative threshold. When this is the case, we check the steering wheel value which indicates if the car has entered the parking area or not. If false, just return. Otherwise, if the vehicle has already started to turn, we set turnContinue value as true. If not, that means rotation is just started, then we set turnStart value as true. If the threshold value is not exceeded but the car is in turning state, we predict that the rotation is over and update the map. To do this, we need the coordinates with turn points and update the direction after the turn. The threshold value can be adjusted to detect the different types of curves. For example, a U-turn is detected when there are multiple and complex steering wheel rotations.



Evaluations

The car was driven inside the indoor parking lot until an empty parking spot is found. The OpenXC adapter used in tests does not support GPS and all the location services including the GPS was disabled on the smartphone. While we were doing the tests, we always observed that the vehicle and we always observed that the error of parking lot sizes are detected with an error of less than a half meter. In addition, we also observed that the route was successfully drawn without crossing the area of the parking space. The steering wheel angle range from -600 to 600 where positive values indicate that wheel is turning to the right and negative values indicate that the wheel is turning to the left. If the driver turns left it does not necessarily mean that the steering wheel angle values will always be negative. This is because the steering action can consist of steering to the right for a certain angle, followed by a large angle steering to the left. Among all the in-car tests, our algorithm calculated the steering angles and turn direction correctly.

Future Work

As a future work, driver assistance to the last parked location of the vehicle will be added as a new feature to our application. In addition, detection of the story level in multi-story parking garages is another future work. We expect that smart parking solutions are available like our approach will be more common in the following years.

Contact

sgoren@yeditepe.edu.tr

Introduction
Proposed Method
Evaluations
Future Work

A Decentralized algorithm to revisit the debate of centralization and decentralization approaches for cloud scheduling

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Contribution

Existing cloud management systems are mostly based on centralized architectures and energy management mechanisms are suffering several limitations. To address these limitations, our contribution is to design, implement, and evaluate a novel cloud management system which provides a holistic energy-efficient VM management solution by integrating advanced VM management mechanisms such as underload mitigation, VM consolidation, and power management. In this paper, we introduce a distributed task scheduling algorithm for Clouds that enables to schedule VMs cooperatively and dynamically inside a federation of clouds. We evaluated our prototype through simulations, to compare our decentralized approach with a centralized one. Our results showed that the proposed scheduler is very reactive.

Introduction

Decentralized algorithms solve the main shortcomings of centralized algorithms such as scalability, fault tolerance and bottlenecks which can significantly degrade performance, the adequacy of the cloud computing environment and autonomy. In centralized scheduling, one cloud scheduler maintains a complete control over the clusters. All the jobs are submitted through the cloud scheduler. In contrast, in decentralized scheduling, organizations maintain (limited) control over their schedules. Jobs are submitted locally, but they can be migrated to another cluster, if the local cluster is overloaded. The possibilities of migration are, however, limited, so that migrated jobs do not overload the network and the node themselves. The aim of this article is to compare energy consumed by centralized algorithm and decentralized algorithm. In this paper, we compare both classes of scheduling algorithms, centralized and decentralized ones.

Related Work

The choice of a single master node can lead to well-known fault-tolerance issues or a node can be overloaded, a subgroup of VMs may be temporarily isolated from the master node in case of a network disconnection. QoS properties may not be ensured any more if the master node crashes. Some nodes could be overloaded which increases the energy consumed. A centralized approach will always be subject to scalability, reactivity, and fault-tolerance issues. We investigate whether a more decentralized algorithm approach can tackle the aforementioned limitations. Quessel and Lebré (2011) designed a distributed VM scheduler (DVMS) to be non-predictive and event-driven, to work with partial views of the system, without any potential single points of failure. Our DVMS thus has the same characteristics and is more reactive, more scalable, and more tolerant to nodes crashes or network disconnections. Kang and Cho (Kang and Cho, 2016) introduced an Inter Cloud Manager (ICM) job dispatching decentralized algorithm which operates well in large scale environments.

Algorithm statements

There are in total N sites and in each site a set H_i of nH_i nodes distributed in a cloud data center system with the same start time U_i . H_i is the node j in site i . Each time when one node (initiator) attempts to reassign a task to another node (or the same node) for execution, the initiator is called the requester node, and the node receiving such a request is called the responder node. Each task $VM_{i,j}$, $i \in \{1, 2, \dots, N\}$ and $j \in \{1, 2, \dots, nH_i\}$ is sent from node H_i . The decentralized algorithm is composed of two phases, namely the job submission phase and the dynamic scheduling phase, which work together to ensure both a quick job distribution and an optimized rescheduling effect.

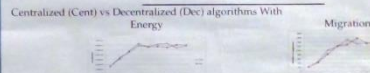
Job submission and dynamic phases

The job submission phase is the first phase of the algorithm. Each time a node j receives a $VM_{i,j}$ submitted by its local user, node j behaves as a requester node H_i^j and generates a request message $VM_{i,j}^r$ for $VM_{i,j}$. This phase solves some problems related to the ever changing data center infrastructure during VM submission phase. It allows for example a redistribution algorithm for a VM that is in a long tail and thus a node can not be executed instantly. The selection of the node that will receive the task is the same as during the submission phase except that the initiator is no longer a candidate node.

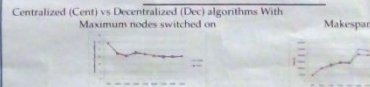
Results

The final simulation results show the gain in energy and makespan does not depend on the numbers of jobs but mostly of the distribution of jobs between nodes. The gain in energy and makespan don't depend on the number of jobs but mostly of the distribution of jobs between nodes.

Expression neutralization improves results on the expression dataset without decreasing the accuracy on the neutral testset. Plotted is the ratio of correct answers to the number of possible correct answers.



In Figure (Energy) it is easy to notice that energy consumed by the distributed algorithm is comparable to centralized strategy for low number of jobs. These poor results are caused by low number of migrations since majority of jobs can be executed without exceeding their due dates. This situation changes for higher loads when number of migrations is increased and the distributed algorithm outperforms the centralized in some case. We achieved similar results for centralized algorithm which use migration and anti load-balancing techniques.



When a cluster load is below the under-loaded threshold, centralized and Decentralized algorithm are able to migrate jobs to more-loaded clusters and switch off under-loaded cluster. In this case, performance measures and energy depend strongly on the collaboration of less-loaded clusters. When their cooperation is too low, the system as a whole starts to be inefficient, although the performance of the less-loaded clusters is not affected. Consequently, we consider that there must be some minimal cooperation that results from a cloud agreement. As in real systems the job stream changes, this minimal cooperation can be also interpreted as an "insurance" to imbalance the load. From the experiments above, we can get the obvious conclusion that both the Centralized algorithm and Decentralized algorithm can reduce energy consumed of data centers. Figure (Makespan) above shows the execution time for all tasks and both schedulers. We can see that the two algorithms have the same behavior.

Finally we can get the obvious conclusion that both Centralized and Decentralized algorithm can reduce energy consumed of data centers. Compared to centralized algorithm, decentralized algorithms have a simplicity that makes them promising in practice though for a verification more experiments are required.

References

- Kang, B. and Cho, H. (2016). A cluster based decentralized job dispatching for the large-scale cloud. *EURASIP Journal on Wireless Communications and Networking*, 2016(1):25.
- Quessel, F. and Lebré, A. (2011). Cooperative dynamic scheduling of virtual machines in distributed systems. In *European Conference on Parallel Processing*, pages 457–466. Springer.

iHasta tiene referencias!

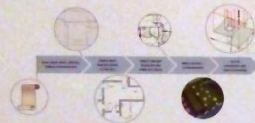
- ¿Por dónde se empieza a leer el póster?
 - Debe existir una jerarquía visual que guíe el proceso de lectura
 - Si no la existe, se puede indicar mediante números o letras

Digitalization of Legacy Building Data

Preparation of printed building plans for the BIM process

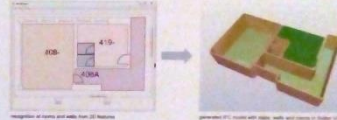
Workflow

Recognize compartments and spaces in CAD data of different maturity level



Features

- Polygons are converted into spaces, slabs and walls
- Creation of doors / area of rooms can be measured
- BIM IFC file is created and stored to disk



Summary

Building Information Modeling provides a new way of augmenting geometric models by semantic data. Currently, conversion of legacy data is a cumbersome manual process, which regularly leads to non-compliant, defective models. We provide a novel procedure to automate the digitalization process and prove the feasibility of an automated derivation of simulation models.

Challenges

- Digitizing issues / errors
- Reduced quality of source data
- Availability and standardization of API-based IFC creators
- Non-conform BIM/IFC data
- Wrong expectations

Users' benefits

- Enable novel technologies like VR/AR for legacy buildings
- Reduce non-conformance costs
- Facilitate digitalization of building (and other) plans
- Automatic derivation of simulation models
- Save legacy data from decline



Application examples

Automatically place fire safety equipment (e.g. smoke detectors) in building models



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All technical session rooms are equipped with a video projector and a computer running Microsoft Windows with Microsoft PowerPoint and Adobe Acrobat Reader. It is recommended that your presentation is uploaded to PRIMORIS before the conference, which ensures that it will be stored at the aforementioned computer by the time it is needed. However, you may prefer to bring it in a USB drive (also recommended as a backup precaution). Using your own laptop or smart device, as long as it is enabled with VGA output connection is possible but not recommended. The presenter should prepare a set of slides that clearly illustrate the main points of her/his paper, and make sure the presentation fits well within the assigned time slot, leaving at least 5 minutes for a period of question-answering. Should sound be required,

CONCLUSIONS

In this proposed method, each node performs a local decision support based on the prediction of the background noise, estimation of the accuracy of the estimation and its surrounding area. The estimation of the required data sample size for the initial communication is a serious mathematical and computational problem, because each individual scenario requires a different statistical analysis approach for computing data reliability. The integration is possible only when there all necessary standardization tasks are finished and the system is widely used throughout the transport chain. This innovation must be taken into consideration not only by a single port authority, but by the whole global transport chain.

Therefore, any intelligent container knows the exact info it needs to know at the most appropriate moment and predict its neighbour's possible deviations in the monitored spectrum. This functionality is already implemented in some E-Seal systems. As briefly mentioned previously, application of intelligent systems plays an essential role in achieving the optimality goal of security in many countries of the world. These networking technologies can be applied in both in container yards, trucks, trains and ships to connect each individual container in a common network.

Future work includes research on the impact of delays, errors and other uncertainties on the communications protocol, its application in laboratory environment and in practice using research grant described below.

A systematic review based on Kitchengam's criteria about use of specific models to implement e-government solutions

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Abstract – It has presented in this article the systematic review of the state of the holistic models identification art for the implementation of electronic government structures (eGovernment), where it can appreciate the alignment toward related international frameworks and standards. The object of the review is to identify the critical factors of success or failure in the implementation processes of eGovernment following a list of common predetermined activities by such models. For systematic review, identification consultation were defined first (query research questions) which were going to direct the search. Then, it was determined the search strategy based on papers data such as Scopus, ProQuest, IEEE Xplore and Science Direct. 149.657 related studies were obtained; after the application of the exclusion criteria, it was obtained a final sampling of 461 articles considered as primary useful studies for our investigation. The process previously described followed the guidelines proposed by Kitchengam [30]. The results obtained allows us to analyze the art state of the eGovernment implementation process, and identify the methodological breach for this process that is reflected in the quality of the implemented structures and also in the services provided by the public entities involved.

Definition

The electronic government can be defined as the digital interaction between government, congress, central and local governments and the citizens, through the implementation of electronic administration. So, the Government has to redefine the way in which interact with its community, approaching itself to the citizens and involving them in government process (es) [30]. In [37] the electronic government is presented as the transformation of internal and external relations of the public sector through the operation of and with technologies.

It is considered as one of the key element in the decentralization processes of the Central State authority (to the empowerment of the regional and local administration) increasing its efficiency and effectiveness.

DISCUSSION

The results of the systematic review focused on two aspects:

- To find models, existing frameworks and methodologies for the implementation of e-government.
- To check the importance of holding a guiding model to ensure the successful implementation of e-government.

Studies provide an overview of the current situation of implementation projects, having been able to identify factors of success and failure as well as ad hoc attempts to develop governance structures. It is noteworthy that the activities as such a model (approximation of reality) should have an objective components, development activities and proposing IT projects. Likewise, it was expected to be in line with internationally accepted best practices, which in turn respond effectively to the needs of specific environments and country-specific regulatory frameworks.

CONCLUSION

The conclusions derived from the systematic revision and analysis of the main articles is the following:

1. Exclusion criteria and questions of quality evaluation have served to identify much of the literature collected under the title incorrectly of implementation, case studies of other problems in relation to specific aspects of implementation but no benefit.
2. There is no model or holistic framework that works as a guide for the implementation of e-government, although it other specific frameworks for particular aspects of implementation apply. Having then a vacuum.
3. Not found a methodology that facilitates the creation of a model or framework that enables holistic guide fill the gap identified above.
4. It is considered as a critical success factors the presence or absence of a guide to the implementation process that includes regulatory aspects.
5. It is necessary the development of a meta-model that includes the government of IT, the government of the risks, the government information security (based on international best practices) and facilitates the implementation of e-government is necessary.
6. It is fundamentally lacks the amount of experiences of implementation or modeling (either ad hoc) e-government in Latin America.

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For inclusion in the conference proceedings, publication and demonstration sessions, a unique registration of at least one (co)author per poster is required by: [16 July 2018](#).

Requirements for Making Posters

All presenters, regardless of the mode of presentation (verbal or poster) are invited to prepare full papers for the Conference Proceedings. Since frequently the intent of posters is to convey late-breaking scientific news and work in progress, they will be promptly peer reviewed as they are received.

The posters will be mounted on poster boards (one poster per board) with tacks which will be available on site.

IMPORTANT: The poster boards are **4 feet (height) x 8 (feet) wide**. Presenters can mount multiple single sheets of paper, larger posters, pictures, or any printed materials on the boards. Please note that equipment needed for demonstration is the responsibility of the author.

Construct the poster to include the title, the author(s), affiliation(s), and a description of the research, highlighting the major elements that are covered in the abstract. Make sure your lettering is neatly done and is large enough to be read from a distance. Inclusion of extended poster abstract in the Conference Proceedings is conditional upon registration of at least one author per poster.

Poster Registration Regulation:

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- No cumplir el formato de tamaño establecido por el congreso



A Discussion on Effective Implementation and Prototyping of Voice User Interfaces for Learning Activities on Moodle

Yoshihiro Miyai, Chikahito Sugawara, Kazuo Shimizu, Kazuhiko Suzuki, Masaru Ohgouchi
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Voice User Interfaces (VUI) are effective and intuitive for many people. The VUI is rapidly becoming suitable for various practical situations using voice-operated smartphones or smart speakers. If VUIs, which may require less cognitive load for use, are applicable on learning management systems (LMS) like Moodle, they could enhance VUIs' learnability. Examples of learning management system (LMS) for VUIs, and design suggestions of VUIs for various Moodle activities are described. A prototype VUI for Moodle activities has been developed with Dialogue System.

What is a VUI?

A Voice User Interface (VUI) is a human-machine interface that allows users to use voice-operated devices (smartphones, smart speakers, etc.) to interact with digital content. VUIs are becoming increasingly popular in various domains, such as education, healthcare, and entertainment. VUIs can be used to enhance the user experience by providing a more natural and intuitive way to interact with digital content.

Existing Application Examples of VUIs in Education


- **Canvas LMS**: Canvas LMS offers a mobile app that allows students to interact with their course content using voice commands.
- **Blackboard**: Blackboard provides a mobile app that allows students to interact with their course content using voice commands.
- **FutureLearn**: FutureLearn provides a mobile app that allows students to interact with their course content using voice commands.
- **FutureLearn for the Moodle.org Community**: FutureLearn provides a mobile app that allows students to interact with their course content using voice commands.
- **FutureLearn for the Moodle.org Community**: FutureLearn provides a mobile app that allows students to interact with their course content using voice commands.

Moodle Activities Expected to be More Effective with VUIs



The screenshot shows a Moodle interface with a list of activities. The activities listed include 'Quiz', 'Forum', 'Assignment', and 'Workshop'. Each activity has a brief description and a 'Details' link. The 'Quiz' activity is highlighted in green. The 'Forum' activity is described as a place for students to discuss and share their thoughts on a topic. The 'Assignment' activity is described as a place for students to submit their work. The 'Workshop' activity is described as a place for students to review and provide feedback on their peers' work.

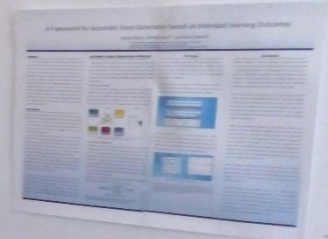
Prototyping of a VUI for Attempting Questions on a Moodle Site



The diagram illustrates the flow of a VUI prototype for attempting questions on a Moodle site. It shows a sequence of steps: 1. User speaks a command to the VUI. 2. The VUI interprets the command and identifies the question. 3. The VUI reads the question to the user. 4. The user provides an answer. 5. The VUI checks the answer and provides feedback. 6. The VUI moves to the next question. 7. The VUI ends the session.

Findings through the prototyping

The findings from the prototyping process are as follows: 1. VUIs can be used to enhance the user experience by providing a more natural and intuitive way to interact with digital content. 2. VUIs can be used to reduce the cognitive load for users. 3. VUIs can be used to provide a more personalized and adaptive learning experience. 4. VUIs can be used to provide a more accessible learning experience for users with disabilities.



The research paper is titled "A Framework for Automated Exam Generation Based on Intelligent Learning Outcomes". It is published in the "Journal of Intelligent and Fuzzy Systems". The paper discusses a framework for generating exams based on learning outcomes. It includes a diagram showing the flow of the framework: Learning Outcomes -> Exam Generation -> Exam -> Assessment. The paper also includes a table of contents and a list of references.

- No transportar y manipular el póster con cuidado

o-instructional application in a MOOC designed with gamification techniques

Rodrigo Saraguro-Bravo, Martha Viteles-Palacios, Inés Jara-Roa

Abstract

er describes the experience of integration of **gamification** in a Mooc, starting from the techno-instructional Mooc making emphasis on technologies that support the model satisfied; to reach results on the **level of interaction** and satisfaction. For this, a survey was conducted and analysis recorded in the Moodle 2.6 platform on which gamification were integrated. The results show that gamification strategies, allow to **increasing the percentage of approval**, it takes the MOOCs, reaching 39% compared to participants not, and 95% compared to the active participants in the MOOC.

Literature Review

LEARNING: Teaching and learning delivered through the Internet.
Learning Management System.
Massive Open Online Courses.
GAMEFICATION: The use of game design elements in contexts, or activities that are not playful.
WILLINGNESS: Positive willingness to learn and continue to do so on an autonomous way.
MOOC-INSTRUCTIONAL DESIGN: Systematic model for development of training programs, methodology and technology integration.

Dersertation Problem

ough the registration of thousands of participants, **completion rates for Moocs tend to be very low**, the pass rate ranges between 10 to 12%.

Proposal Development

erent two phases are planned: instructional design (content, assessments and activities) and upload the course to the MOOC platform (Moodle MOOC).

ion involves the "virtual Courses Design" and the integration of various technologies. This involves the use of Moodle 2.6 for the course's management, and the integration of various technologies. This involves the use of Moodle 2.6 for the course's management, and the integration of various technologies.



Fig. 1. Gamified MOOC

Experience evaluation

This phase integrates two quantitative methods for collecting data: statistics of the platform and an online survey that allowed exploring in depth the experience of the participants on aspects such as content design, proposed activities, satisfaction, and motivation of the course.

Week	Enrolled students	Challenges solved	Weekly approval
1	100	10	10%
2	11	21	19.1%
3	14	48	34.3%
4	11	37	33.6%
Average	22	37	33%

Table 1. MOOC Participants by week



Fig. 2. Satisfaction evaluation of the MOOC

Conclusions

The inclusion of gamification strategies in a MOOC, through stories of games where learning experiences are part of the challenges of the game, represents a **motivating factor in students** and thus contributes in efforts to **increase the percentage of retention of MOOC**. It is necessary to extend the investigation to gamified MOOCs in different contexts, with a wide range of techniques and with the largest population in order to generalize the results of combination of gamification in the retention MOOC rates.

"Rules and Policies for Dissemination of Digital Public Information in Municipalities"

Nataly Arias, Vicente Morales
 Universidad Técnica de Ambato
 Facultad de Ingeniería en Sistemas, Electrónica e Industrial

Susay Bayona
 Unidad de Postgrado de la Facultad de Ingeniería de Sistemas e Informática

Abstract

The definition of public information through electronic media promoting transparency and accountability in the public sector is a challenge for the governments. This article presents the results of a research project that aims to develop a set of rules and policies for the dissemination of digital public information in municipalities. The research was carried out in the city of Ambato, Ecuador, through a survey of 100 citizens and 50 public officials. The results show that the majority of citizens are not aware of the existence of digital public information in their municipalities. The research also found that the majority of public officials do not have the necessary skills to disseminate digital public information. The research concludes that the development of a set of rules and policies for the dissemination of digital public information in municipalities is a necessary step to promote transparency and accountability in the public sector.

INTRODUCTION

The public dissemination of information through electronic media promoting transparency and accountability in the public sector is a challenge for the governments. This article presents the results of a research project that aims to develop a set of rules and policies for the dissemination of digital public information in municipalities. The research was carried out in the city of Ambato, Ecuador, through a survey of 100 citizens and 50 public officials. The results show that the majority of citizens are not aware of the existence of digital public information in their municipalities. The research also found that the majority of public officials do not have the necessary skills to disseminate digital public information. The research concludes that the development of a set of rules and policies for the dissemination of digital public information in municipalities is a necessary step to promote transparency and accountability in the public sector.

As the first author of Computer Technical Systems, received her Bachelor's degree in Computer Science from the University of Cuenca, Ecuador. She is currently a Ph.D. student in the Department of Systems, Electronics and Industrial Engineering at the University of Ambato, Ecuador. She has worked in the area of computer systems for more than 10 years. She is currently working on her Ph.D. thesis on the development of a set of rules and policies for the dissemination of digital public information in municipalities.

II METHODOLOGY

The research has been done in a qualitative research and a quantitative research. The qualitative research was carried out through interviews with 50 public officials and 100 citizens. The quantitative research was carried out through a survey of 100 citizens and 50 public officials. The results of the research are presented in the following sections.

III RULES AND STANDARDS OF DIGITAL PUBLIC INFORMATION

A set of rules and standards for the dissemination of digital public information in municipalities is necessary to promote transparency and accountability in the public sector. The rules and standards should be developed by the municipalities and should be based on the following principles: transparency, accountability, accessibility, and security.

TABLE EVALUATION LIST OF EVALUATION APPROVED AND IN FORCE

Item	Approved	In Force
1	100%	100%
2	100%	100%
3	100%	100%
4	100%	100%
5	100%	100%
6	100%	100%
7	100%	100%
8	100%	100%
9	100%	100%
10	100%	100%

B. Defining the structure of information systems

The public dissemination of information through electronic media promoting transparency and accountability in the public sector is a challenge for the governments. This article presents the results of a research project that aims to develop a set of rules and policies for the dissemination of digital public information in municipalities. The research was carried out in the city of Ambato, Ecuador, through a survey of 100 citizens and 50 public officials. The results show that the majority of citizens are not aware of the existence of digital public information in their municipalities. The research also found that the majority of public officials do not have the necessary skills to disseminate digital public information. The research concludes that the development of a set of rules and policies for the dissemination of digital public information in municipalities is a necessary step to promote transparency and accountability in the public sector.

IV. DESIGN PROCESS FOR PROPER PUBLIC RELEASE OF DIGITAL INFORMATION

Item	Approved	In Force
1	100%	100%
2	100%	100%
3	100%	100%
4	100%	100%
5	100%	100%
6	100%	100%
7	100%	100%
8	100%	100%
9	100%	100%
10	100%	100%

V. RESULTS

The results of the research show that the majority of citizens are not aware of the existence of digital public information in their municipalities. The research also found that the majority of public officials do not have the necessary skills to disseminate digital public information. The research concludes that the development of a set of rules and policies for the dissemination of digital public information in municipalities is a necessary step to promote transparency and accountability in the public sector.

VI. CONCLUSIONS

The inclusion of gamification strategies in a MOOC, through stories of games where learning experiences are part of the challenges of the game, represents a motivating factor in students and thus contributes in efforts to increase the percentage of retention of MOOC. It is necessary to extend the investigation to gamified MOOCs in different contexts, with a wide range of techniques and with the largest population in order to generalize the results of combination of gamification in the retention MOOC rates.

- No usar un sistema de fijación adecuado

- ¡Cuidado con los errores ortográficos!

Towards a Dynamic Visualization of Online Collaborative Learning

Malik Koné
malik.kone-etu@univ.lemans.fr

Supervisor : Sébastien Iksal
Co-supervisor : Madeth May

1 CONTEXT

► How to support the learners' collective dynamics using visualizations of MOOC forum?

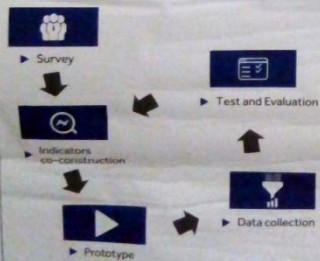
- What interaction indicators to use?
- What visualization type for learners?
- What visualization type for instructors?

► Background



No dynamic indicators for learners
Existing social networks graphs but static and for instructors

2 APPROACH



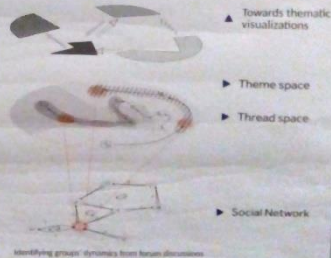
3 VISUALIZATION EXAMPLES



- Moodle Data
- Learner's Forum activity

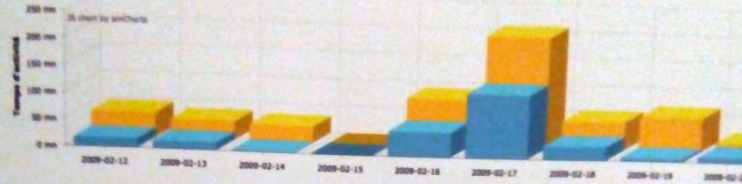
4 FUTUR WORK

- First thread post Last thread post
- Ex: Actor E posting message #10, Posts are numbered chronologically
- Actor D posted message #5, just after actor C had posted message #3
- Actor F answered actor G, The strength of their link is 2
- Identify a "collaborative" cycle in the social network.



3

VISUALIZATION EXAMPLES



- ▶ Moodle Data
- ▶ Learner's Forum activity

4

FUTUR WORK

□ First thread post ○ Last thread post

E₁₀ Actor E posting message #10.
Posts are numbered chronologically

D₅ ← C₃ Actor D posted message #5 just after actor C posted message #3

F → G Actor F answered actor G
The strength of their link is 2

↻ Identify a "collaboration cycle" in the social network



▶ Towards their visualizations

- No usar imágenes de alta calidad

CONSEJOS

- Consulta las instrucciones de presentación

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- Establece un orden de lectura:
 - Por la jerarquía visual
 - Con números o letras

Accessible Online Indoor Maps for Blind and Visually Impaired Users

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Abstract 1

This paper proposes **alternatives for the development and improvement of maps to aid accessibility**. Based on our analysis, we present an accessible online indoor map prototype that complies with WCAG 2.0. For the case study, the prototype displays an indoor map that is designed using Scalable Vector Graphics (SVG) format. This format can include information that helps the screen reader to interpret the visual graph information. In addition, the prototype can simulate the route that the users select so they can get an idea of the environment where they will mobilize. We tested the prototype in different browsers with the help of blind people.

Prototype 3

Problems 2

Maps:

- As an Accessible Image.
- Operable using a Keyboard.
- With Readable Text.
- With Perceptible Colors.

The prototype consists a search menu in alphabetical order.

Users can:

- Navigate using the tab and arrow keys.
- Use the keyboard shortcuts to exit, help, the principal menu and map.

The route is simulated when users select an element.

Each element of the map contains information that is displayed when it is selected by mouse or keyboard. Then, the screen reader describes the information presented in the info panel to the user.

The prototype changes the "contrast" in the indoor map and it allows the configuration on the same console help users to obtain better usability for improved readability and understanding.

User Testing 4

Users mentioned that the prototype would be very useful for their everyday life: users prefer to know beforehand the environment that they will be mobilized.

Conclusion 5

- The prototype was tested in three browsers: Google Chrome, Mozilla Firefox and Microsoft Edge. Google Chrome supports SVG and is compatible with web styles and colours, while, Mozilla Firefox and Microsoft Edge support HTML and SVG, but these browsers are not compatible with the tabindex property. Moreover, we evaluated the prototype with TAW and eXaminator that measure the compliance of the WCAG 2.0.
- For future work we intend to apply tools with voice commands, that is to say, we should use tools that simulate and transform the voice to text, so that users can speak the name of the place where they want to go to and the prototype will relay information about that place.

Fault Tolerance in the Traffic Management System of a Last-mile Transportation Service

Koji Hasebe, Shohei Sasaki, Kazuhiko Kato
Department of Computer Science, University of Tsukuba, Japan

1. Background and Research Issue

Background

Last-mile transportation system based on technologies of semi-autonomous driving has been developed^[1]. A conceptual illustration of our vehicles is shown in Fig. 1.



Fig. 1: Conceptual illustration of a fleet of passenger-carrying vehicles

Fig. 2 shows an overview of the traffic management system.

This transportation system has a single *central server* and intermediate servers (called *node servers*). Central server aggregates the travel requests in real time and dynamically determines the schedule of the vehicles, while node servers distribute the schedule to vehicles.

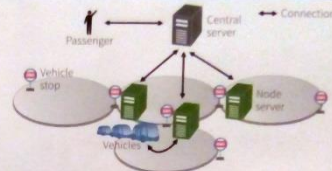


Fig. 2: Overview of the traffic management system

Research Issue

The entire traffic system may stop if the central server malfunctions owing to some unforeseen event.

2. Purpose

Propose a fault tolerant mechanism for the traffic management systems of last-mile transportation services.

3. Proposed Method

We use a primary-backup (or so-called passive) replication technique^[2] to make the central server redundant.

In normal time

One node is selected as the central server. Central server receives the travel demand, determines the schedule, and deliver schedule to each node server. Each node server gives instructions when each vehicle arriving at a node.

At server failure

Another node server will become the new central server (see also Fig. 3).

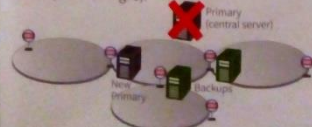


Fig. 3: In case central server fails

4. Experiments

To verify the correctness of our proposed mechanism and to demonstrate the availability with various types of server and network failures, we conducted experiments with our current prototype implementation.

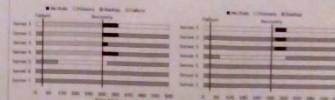


Fig. 4: Case 1: failure of the majority of nodes Fig. 5: Case 2: network partitioning

As a result, when the majority of nodes fails (see Fig. 4) or network partitioning occurs (see Fig. 5), immediately a node becomes a new primary.

5. Future Work

We will investigate the transportation system further to refine our implementation in experiments.

References

- [1] K. Hasebe, S. Sasaki, S. Sasaki, and K. Kato, "Traffic management for last-mile public transportation systems using autonomous vehicles," IEEE International Smart Cities Conference, 2017.
- [2] A. Saitoh, S. Masuda, T. S. Schneider, S. Tsujii, "The Primary-Backup Approach: Distributed System-Level Redundancy," in Proceedings of the 13th Annual ACM Symposium on Operating Systems Principles, 2003.

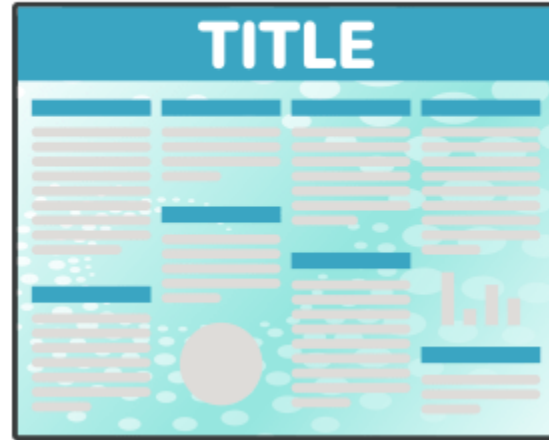
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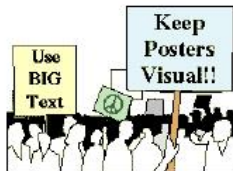
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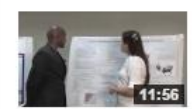
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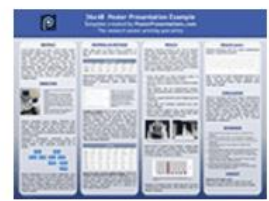
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OBJECTIVES



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MATERIALS & METHODS

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Case studies

	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
Study 1	100	200	300	400	500	600
Study 2	150	250	350	450	550	650
Study 3	200	300	400	500	600	700

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Results

	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
Year 1	100	200	300	400	500	600
Year 2	150	250	350	450	550	650
Year 3	200	300	400	500	600	700
Year 4	250	350	450	550	650	750
Year 5	300	400	500	600	700	800
Year 6	350	450	550	650	750	850
Year 7	400	500	600	700	800	900

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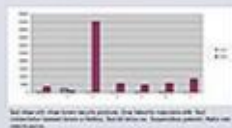
RESULTS

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CONCLUSIONS

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REFERENCES

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CONTACT

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Diana C. Rypkema¹, Meera Krishnamoorthy¹, and Shripad Tuljapurkar¹

¹Department of Biology, Stanford University, Stanford, CA, USA

INTRODUCTION

Carefully living in the sixth great mass extinction in the history of life on Earth (Olivetti 2011), understanding time to extinction is greatly important. Past mass extinctions were largely caused by climatic and geo-logical changes, however the current mass extinction is driven by humans (Chaplin 1998, 1994, Owen 2003). With extinction largely caused by human events and/or human changes to the environment, understanding these two factors' influence is essential to our ability to predict how a population may change over time. Further, understanding the joint effects of environmental variability and human disturbance is increasingly important, since scientists experiencing the strongest effects of climate change are predicted to largely be joint-human disturbance landscapes (Theohar 2015). The number of threatened species on the International Union for Conservation of Nature (IUCN) Red List has more than doubled for each of the major groups of organisms since 1994 (IUCN 2014). A major threat to species worldwide is habitat degradation, which is happening at an extremely high rate (Dixon and Brown 2010). Furthermore, human disturbance and disturbance also has a broad threat to 3172 species globally (IUCN 2014). Specifically, the environmental variability experienced in many systems is increasing over time, especially due to climate change. For example, temperatures are increasing more extreme, high temperature waves are experiencing even higher temperatures and low temperature waves are experiencing even colder temperatures (e.g. the Northern United States (the winter) (IPCC 2013). According to the IUCN, climate change and severe weather events threaten 1284 species worldwide. Although many studies have looked at habitat degradation and increasing environmental variability separately (e.g. The and Brown 1981, Lewis 1992, Griffin and Drake 2002), to my knowledge, there are no studies that have looked at the disturbance effect of these two factors on a population's time to extinction.

QUESTION

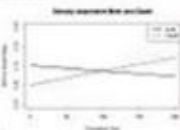
What is the impact of the interaction between increasing environmental variability and habitat degradation on a population's time to extinction?

METHODS

The model

Density-dependent population model

- λ : per-capita birth rate
- N : population size
- μ : per-capita natural rate
- δ : density-dependence constant
- $b = b_0 e^{-\delta N}$ or $b = b_0 e^{-\delta N}$
- d : per-capita death rate, $d = 1 - a$
- r : per-capita rate of increase, $r = b - d$



Modeling habitat degradation and increasing environmental variability

- Habitat degradation: decreased b (b_0 to b_1) and increased d (d_0 to d_1) over a period of time T_1 .
- Increasing environmental variability changed magnitude of relative b and correlation between b and d (ρ)

$$b_t = b_0 [1 + I_t (U - 0.5)]$$

$$d_t = d_0 [1 + I_t (W - 0.5)]$$

U and W are uniform random variables taking values between 0 and 1

Cases

- 0: Baseline scenario: No change to b or d , environmental variance fixed at $L = 0.1$
- 1: b decrease and d increase over T_1 , environmental variance fixed at $L = 0.1$
- 2: b and d fixed at b_0 and d_0 , uncorrelated environmental variance increases to 100% over T_1 , $\rho = 0.1$, $L = 1$, $R = 0$
- 3: b decrease and d increase, uncorrelated environmental variance increases to 100% over T_1 , $\rho = 0.1$, $L = 1$, $R = 0$
- 4: b decrease and d increase, correlated environmental variance increases to 100% over T_1 , $\rho = 0.1$, $L = 1$, $R = 0$

METHODS (continued)

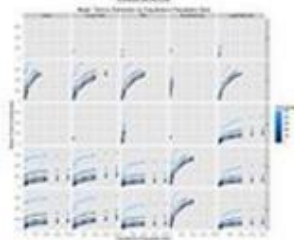
Parameter Values

Species	Carrying Capacity	Annual Growth Rate	r	b_0	d_0	b_1	d_1	ρ	L	R
Insect	0.25	2.775	2.42	0.047	0.3235					
Annual Plant	1	0.885	1.465	0.77	0.8825					
Bird	5	0.139	0.763	0.626	0.4890					
Small Mammal	10	0.082	0.18	0.1107	0.14505					
Large Mammal	25	0.0277	0.63	0.6023	0.63615					

Simulations

- 1000 years
- Each of the 7 types of organisms
- Initial population size set to carrying capacity (K)
- 17 different K values ranging from 10 to 2000
- $T_1 = 10, 25, 50, 100, 200, \text{ or } 500$
- 10,000 simulations

RESULTS



CONCLUSIONS

We found that the combined force of habitat degradation and increasing environmental variability led to more rapid extinction than either force alone. Specifically, with an increase in the time period over which habitat degradation and/or the increase in environmental variability occur, the mean time to extinction increases. Further, as the duration time of the organisms increases, the mean time to extinction also increases. We found that the organisms with a shorter duration time, habitat degradation had a significantly stronger effect on time to extinction than increasing environmental variability. This difference in relative importance of the two factors subsides as the significance of constant in our understanding of population dynamics. The framework developed here is applicable across a broad range of organisms and can be used to help determine when to focus conservation and management efforts.

ACKNOWLEDGEMENTS, CONTACT & REFERENCES

Thanks to Richard Dixon, Tahira Fatima, and Cecil Stovett and funding from a Stanford Graduate Fellowship.



Email: drypkema@stanford.edu

Anders, W. B. (2005) *Anal. Biol.* 5: 1011-1016. Chouin, S. A. (2002) *Popul. Biol. Evol.* 23: 1911-1916. Chouin, S. A. (2003) *Popul. Biol. Evol.* 24: 1911-1916. Chouin, S. A. (2004) *Popul. Biol. Evol.* 25: 1911-1916. Chouin, S. A. (2005) *Popul. Biol. Evol.* 26: 1911-1916. Chouin, S. A. (2006) *Popul. Biol. Evol.* 27: 1911-1916. Chouin, S. A. (2007) *Popul. Biol. Evol.* 28: 1911-1916. Chouin, S. A. (2008) *Popul. Biol. Evol.* 29: 1911-1916. Chouin, S. A. (2009) *Popul. Biol. Evol.* 30: 1911-1916. Chouin, S. A. (2010) *Popul. Biol. Evol.* 31: 1911-1916. Chouin, S. A. (2011) *Popul. Biol. Evol.* 32: 1911-1916. Chouin, S. A. (2012) *Popul. Biol. Evol.* 33: 1911-1916. Chouin, S. A. (2013) *Popul. Biol. Evol.* 34: 1911-1916. Chouin, S. A. (2014) *Popul. Biol. Evol.* 35: 1911-1916. Chouin, S. A. (2015) *Popul. Biol. Evol.* 36: 1911-1916. Chouin, S. A. (2016) *Popul. Biol. Evol.* 37: 1911-1916. Chouin, S. A. (2017) *Popul. Biol. Evol.* 38: 1911-1916. Chouin, S. A. (2018) *Popul. Biol. Evol.* 39: 1911-1916. Chouin, S. A. (2019) *Popul. Biol. Evol.* 40: 1911-1916. Chouin, S. A. (2020) *Popul. Biol. Evol.* 41: 1911-1916. Chouin, S. A. (2021) *Popul. Biol. Evol.* 42: 1911-1916. Chouin, S. A. (2022) *Popul. Biol. Evol.* 43: 1911-1916. Chouin, S. A. (2023) *Popul. Biol. Evol.* 44: 1911-1916. Chouin, S. A. (2024) *Popul. Biol. Evol.* 45: 1911-1916. Chouin, S. A. (2025) *Popul. Biol. Evol.* 46: 1911-1916.