Title

X

AUTHOR\_NAME AUTHOR\_FAMILY\_NAME, Institution

AUTHOR2\_NAME AUTHOR2\_FAMILY\_NAME, Institution

Abstract text, you have 200 words for write abstract.

• **Information systems➝Database management system engines**   • **Computing methodologies➝Massively parallel and high-performance simulations.**This is just an example, please use the correct category and subject descriptors for your submission*.*

Additional Key Words and Phrases: Word example.

# INTRODUCTION

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed diam quam, malesuada vitae sodales mattis, vulputate non erat. Cras scelerisque vitae mi semper imperdiet. Proin et nisi volutpat, maximus nulla quis, porttitor quam. Nullam ligula orci, elementum nec enim sed, tempus finibus elit. Duis vehicula turpis sed volutpat rhoncus. Sed porttitor turpis arcu, sed dignissim ligula interdum at. Nulla mollis, enim ut faucibus semper, metus magna pellentesque est, vitae laoreet turpis ligula viverra lectus [Author et al. YYYY; Author & Author2 YYYY].

“Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed diam quam, malesuada vitae sodales mattis, vulputate non erat. Cras scelerisque vitae mi semper imperdiet. Proin”.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed diam quam, malesuada vitae sodales mattis, vulputate non erat. Cras scelerisque vitae mi semper imperdiet. Proin et nisi volutpat, maximus nulla quis.

— Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed diam quam, malesuada vitae sodales mattis, vulputate non erat. Cras scelerisque vitae mi semper imperdiet. Proin et nisi volutpat, maximus nulla quis.

# Other formats

Formats

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed diam quam, malesuada vitae sodales mattis, vulputate non erat

 (1)

where t = 0, . . . , T, and b is a number greater than 1.

Selected according to the following equation:



Algorithms format.

Algorithm 1. Example algorithm

**Input:** Input description.

**Output:** Output description.

*index* = 0;

**repeat**

*Found* = *TRUE*;

**for** *each node* *in* *α list* **do**

**if** (Condition)

**then**

**end**

**end**

**if** *Found* **then**

**else**

**end**

until

# Formats

List format.

(1) Number one.

(2) Number two.

(3) Number three.

(a) Subnode

(b) Subnode

(4) Number four.

Fig. 1.

Fig. 1. Example.

## Problem Formulation

The objective of variable coalescence-based offset assignment is to find both the coalescence scheme and the MWPC on the coalesced graph. We start with a few definitions and lemmas for variable coalescence.

Definition 3.1 (Coalesced Node (C-Node)). A C-node is a set of live ranges (webs) in the AG or IG that are coalesced. Nodes within the same C-node cannot interfere with each other on the IG. Before any coalescing is done, each live range is a C-node by itself.

Definition 3.2 (C-AG (Coalesced Access Graph)). The C-AG is the access graph after node coalescence, which is composed of all C-nodes and C-edges.

Lemma 3.3. The C-MWPC problem is NP-complete.

Proof. C-MWPC can be easily reduced to the MWPC problem assuming a coalescence graph without any edge or a fully connected interference graph. Therefore, each C-node is an uncoalesced live range after value separation and C-PC is equivalent to PC. A fully connected interference graph is made possible when all live ranges interfere with each other. Thus, the C-MWPC problem is NP-complete. 🞏

Lemma 3.4 (Lemma Subhead). The solution to the C-MWPC problem is no worse than the solution to the MWPC.

Proof. Simply, any solution to the MWPC is also a solution to the C-MWPC. But some solutions to C-MWPC may not apply to the MWPC (if any coalescing were made).

Table I. Table Example

|  |  |
| --- | --- |
| Head text | Col 2 |
| Value | Value |
| Value | Value |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| *Source*: This is a table source note. This is a table source note. This is a table source note.  *Note*: This is a table footnote.  aThis is a table footnote. This is a table footnote. This is a table footnote. | |

# PERFORMANCE EVALUATION

During all the experiments, the Geographic Forwarding (GF) [Akyildiz et al. 2002] routing protocol is used. GF exploits geographic information of nodes and conducts local data-forwarding to achieve end-to-end routing. Our simulation is configured according to the settings in Table I. Each run lasts for 2 minutes and repeated 100 times. For each data value we present in the results, we also give its 90% confidence interval.

# CONCLUSIONS

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed diam quam, malesuada vitae sodales mattis, vulputate non erat. Cras scelerisque vitae mi semper imperdiet. Proin et nisi volutpat, maximus nulla quis.

# TYPICAL REFERENCES

A paginated journal article [Abril and Plant 2007], an enumerated journal article [Cohen et al. 2007], a reference to an entire issue [Cohen 1996], a monograph (whole book) [Kosiur 2001], a monograph/whole book in a series (see 2a in spec. document) [Harel 1979], a divisible-book such as an anthology or compilation [Editor 2007] followed by the same example, however we only output the series if the volume number is given [Editor 2008] (so Editor00a’s series should NOT be present since it has no vol. no.), a chapter in a divisible book [Spector 1990], a chapter in a divisible book in a series [Douglass et al. 1998], a multi-volume work as book [Knuth 1997], an article in a proceedings (of a conference, symposium, workshop for example) (paginated proceedings article) [Andler 1979], a proceedings article with all possible elements [Smith 2010], an example of an enumerated proceedings article [Gundy et al. 2007], an informally published work [Harel 1978], a doctoral dissertation [Clarkson 1985], a master’s thesis: [Anisi 2003], an online document / world wide web resource [Thornburg 2001], [Ablamowicz and Fauser 2007], [Poker-Edge.Com 2006], a video game (Case 1) [Obama 2008] and (Case 2) [Novak 2003] and [Lee 2005] and (Case 3) a patent Scientist 2009], work accepted for publication [Rous 2008], ‘YYYYb’-test for prolific author [Saeedi et al. 2010a] and [Saeedi et al. 2010b]. Other cites might contain ‘duplicate’ DOI and URLs (some SIAM articles) [Kirschmer and Voight 2010]. Boris / Barbara Beeton: multi-volume works as books [Hörmander 1985b] and [Hörmander 1985a].

APPENDIX

In this appendix, Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed diam quam, malesuada vitae sodales mattis, vulputate non erat. Cras scelerisque vitae mi semper imperdiet. Proin et nisi volutpat, maximus nulla quis.

ACKNOWLEDGMENTS

Example: The authors would like to thank somebody.

REFERENCES

Rafal Ablamowicz and Bertfried Fauser. 2007. CLIFFORD: a Maple 11 Package for Clifford Algebra Computations, version 11. (2007). Retrieved February 28, 2008 from http://math.tntech.edu/rafal/cliff11/index.html

Patricia S. Abril and Robert Plant. 2007. The patent holder’s dilemma: Buy, sell, or troll? *Commun. ACM* 50, 1 (Jan. 2007), 36–44. DOI:http://dx.doi.org/10.1145/1188913.1188915

Sten Andler. 1979. Predicate Path expressions. In *Proceedings of the 6th. ACM SIGACT-SIGPLAN symposium on Principles of Programming Languages (POPL ’79)*. ACM Press, New York, NY, 226–236. DOI:http://dx.doi.org/10.1145/567752.567774

David A. Anisi. 2003. *Optimal Motion Control of a Ground Vehicle*. Master’s thesis. Royal Institute of Technology (KTH), Stockholm, Sweden.

Barack Obama. 2008. A more perfect union. Video. (5 March 2008). Retrieved March 21, 2008 from http://video.google.com/videoplay?docid=6528042696351994555

Received Month YYYY; revised Month YYYY; accepted Month YYYY