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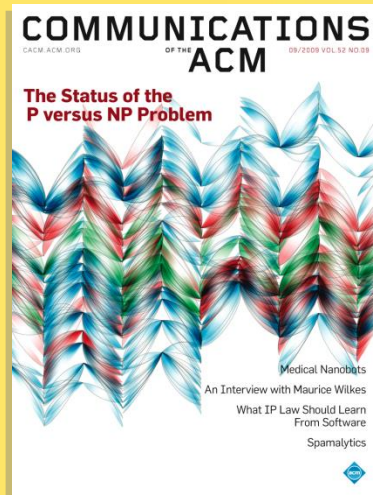
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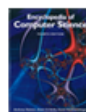
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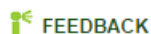
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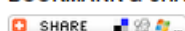


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Conventional programming languages are growing ever more enormous, but not stronger. Inherent defects at the most basic level cause them to be both fat and weak: their primitive word-at-a-time style of programming inherited from their common ancestor--the ...

Keywords: APL, Algol, algebra of programs, applicative computing systems, applicative state transition systems, combining forms, functional forms, functional programming, metacomposition, models of computing systems, program correctness, program termination, program transformation, programming languages, von Neumann computers, von Neumann languages

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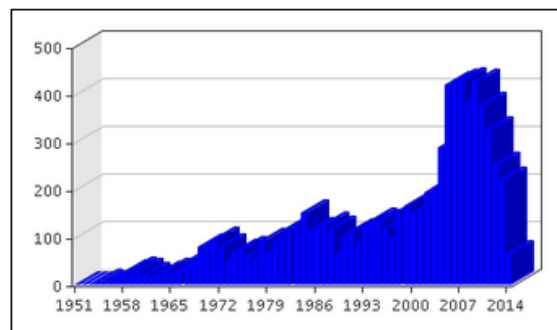
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Volume 61 Issue 5, August 2014

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Swastik Kopparty, Shubhangi Saraf, Sergey Yekhanin

Article No.: 28

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Locally decodable codes are error-correcting codes that admit efficient decoding algorithms; any bit of the original message can be recovered by looking at only a small number of locations of a corrupted codeword. The tradeoff between the rate of a code ... [expand](#)

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Locally decodable codes are error-correcting codes that admit efficient decoding algorithms; any bit of the original message can be recovered by looking at only a small number of locations of a corrupted codeword. The tradeoff between the rate of a code and the locality/efficiency of its decoding algorithms has been well studied, and it has widely been suspected that nontrivial locality must come at the price of low rate. A particular setting of potential interest in practice is codes of constant rate. For such codes, decoding algorithms with locality $O(k\epsilon)$ were known only for codes of rate $\epsilon\Omega(1/\epsilon)$, where k is the length of the message. Furthermore, for codes of rate $> 1/2$, no nontrivial locality had been achieved.

In this article, we construct a new family of locally decodable codes that have very efficient local decoding algorithms, and at the same time have rate approaching 1. We show that for every $\epsilon > 0$ and $\alpha > 0$, for infinitely many k , there exists a code C which encodes messages of length k with rate $1 - \alpha$, and is locally decodable from a constant fraction of errors using $O(k\epsilon)$ queries and time.

These codes, which we call multiplicity codes, are based on evaluating multivariate polynomials and their derivatives. Multiplicity codes extend traditional multivariate polynomial codes; they inherit the local-decodability of these codes, and at the same time achieve better tradeoffs and flexibility in the rate and minimum distance.

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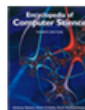
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It is my great pleasure to welcome you to the 23rd International World Wide Web Conference, WWW 2014.

Since its inception in 1994, the International World Wide Web Conference (WWW) has become the premier forum in advancing Web technologies, introducing these technologies to the industry and to users, and promoting the development of Web standards. WWW is organized by the International World Wide Web Conference Steering Committee (IW3C2) in collaboration with local conference organizers of the host country.

This year we have the privilege of hosting WWW in Seoul, Korea for the very first time. International delegates can experience the advanced information technologies of Korea as well as both the contemporary culture and historical traditions of Seoul, which has been the capital city of Korea for the past six hundred years. I hope you are pleased, as I am, with the quality of this years program. There are 3 keynote speeches by world-class experts. The Research track presents 84 high quality papers; 107 posters of the Poster track report concise summaries of research; the Demo track shows 28 interesting demos; the Ph.D. Symposium track reports 11 papers of doctoral students; the Developers track presents 5 papers and 7 speeches focused on development experiences; the Industry track consists of 12 fascinating speeches from prominent industry leaders; the Web Science track presents 20 papers and 15 posters on novel interdisciplinary research; the W3C track is composed of sessions on the latest Web standards and emerging technologies; the Panel program consists of a plenary panel on the future of the Web and 3 panels on current issues. In addition to the tracks and special programs, workshops and tutorials are organized to report on-going works and to provide in-depth knowledge on important subjects, respectively; 19 workshops are organized to present 128 papers and provide 25 invited speeches; 13 tutorials are organized as lectures by experts. The content of the program is contained in the proceedings and the companion proceedings for your future reference.

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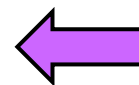
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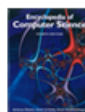
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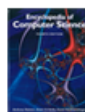
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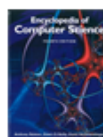
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1 [Computers and iphones and mobile phones, oh my!: a logs-based comparison of search users on different devices](#)

[Maryam Kamvar](#), [Melanie Kellar](#), [Rajan Patel](#), [Ya Xu](#)

April 2009 **WWW '09: Proceedings of the 18th international conference on World wide web**

Publisher: ACM

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We present a logs-based comparison of search patterns across three platforms: computers, iPhones and conventional mobile phones. Our goal is to understand how mobile search users differ from computer-based search users, and we focus heavily on the distribution ...

Keywords: google, iphone, mobile search, search, user behavior

2 [Understanding information preview in mobile email processing](#)

[Kimberly A. Weaver](#), [Huahai Yang](#), [Shumin Zhai](#), [Jeff Pierce](#)

August 2011 **MobileHCI '11: Proceedings of the 13th International Conference on Human Computer Interaction with Mobile Devices and Services**

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Full text available:  [PDF](#) (868.04 KB)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 28, Downloads (Overall): 182, Citation Count:

Browsing a collection of information on a mobile device is a common task, yet it can be difficult due to the small size of mobile displays. A common trade-off offered by many current mobile interfaces is to allow users to switch between an overview and ...

Keywords: email, information preview, mobile phone

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1 [A native iPhone packbot OCU](#)

[Rodrigo Gutierrez](#), [Jeff Craighead](#)

March 2009 **HRI '09**: Proceedings of the 4th ACM/IEEE international conference on Human robot interaction

Publisher: ACM

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Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 27, Downloads (Overall): 526, Citation Count: 5

This video abstract discusses the details of the implementation of a Packbot operator control unit (OCU) using Apple's official iPhone SDK.

Keywords: iPhone, robot, touch screen

2 [MDSD for the iPhone: developing a domain-specific language and IDE tooling to produce real world applications for mobile devices](#)

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During the last years, code generators and models have become increasingly popular tools to support software development processes in manifold ways. At the same time, the emerging pervasiveness of domain-specific languages (DSLs) in this field has complemented ...

Keywords: development environment, domain-specific language, eclipse, iPhone, mobile devices, model-driven software development

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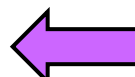


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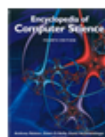
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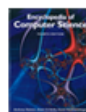
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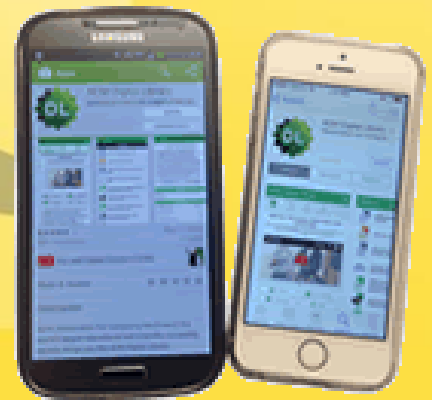
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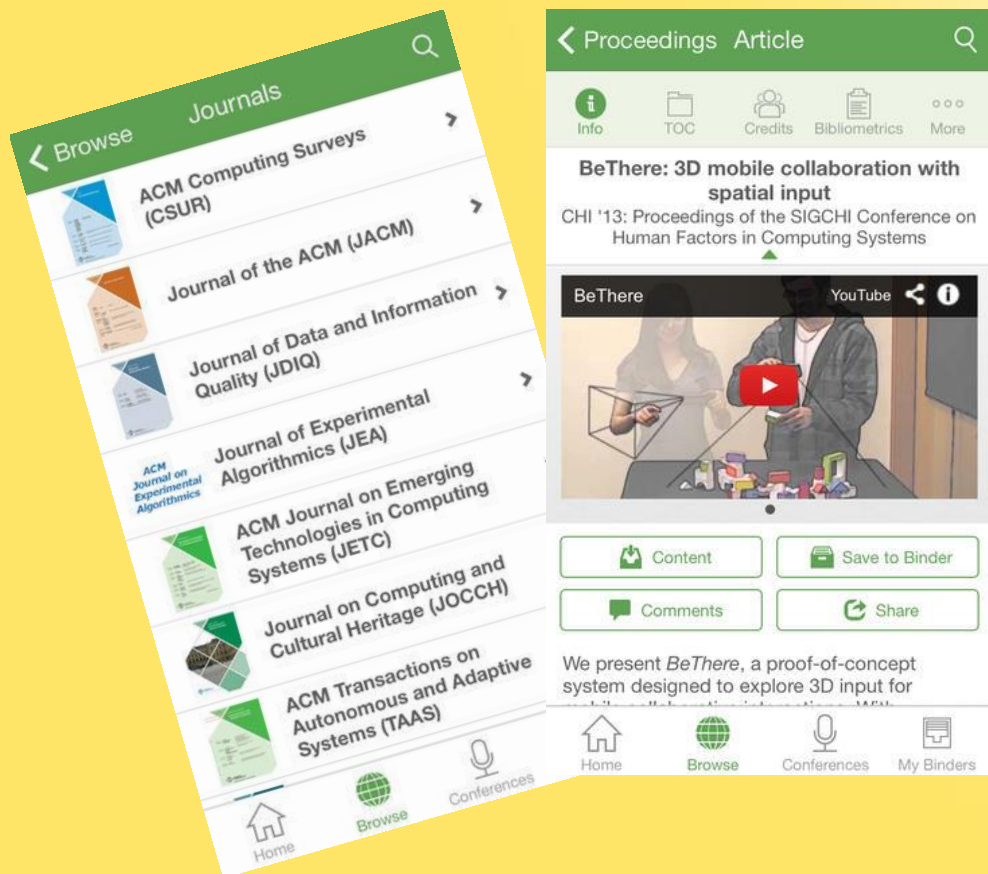


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