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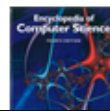 (available in the DL within the past 2 weeks)

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JACM Journal of the ACM (JACM)

The _Journal of the ACM (JACM)_ provides coverage of the most significant work on principles of computer science, broadly construed. The scope of research covered encompasses contributions of lasting value to any area of computer science. To be accepted, a paper must be judged to be truly outstanding in its field. JACM is interested in work in core computer science and in work at the boundaries, both the boundaries of subdisciplines of computer science and the boundaries between computer science and other fields. **1**

JDIQ Journal of Data and Information Quality (JDIQ)

JDIQ's mission is to publish high quality articles that make a significant and novel contribution to the field of data and information quality. JDIQ welcomes research contributions on the following areas, but not limited to: Information Quality in the Enterprise Context; Database related technical solutions for Information Quality; Information Quality in the context of Computer Science and Information Technology; Information Curation.

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TALG ACM Transactions on Algorithms (TALG)

The *ACM Transactions on Algorithms (TALG)* publishes original research of the highest quality dealing with algorithms that are inherently discrete and finite, and having mathematical content in a natural way, either in the objective or in the analysis. Most welcome are new algorithms and data structures, new and improved analyses, and complexity results. In addition to original research articles TALG will include special features appearing from time to time such as invited columns and a problems section.

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Therese Bledl, Anna Lubiw, Mark Petrick, Michael Spriggs
Article No.: 29
doi>10.1145/2500118
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We give an algorithm to morph between two planar orthogonal drawings of a graph, preserving planarity and orthogonality. The morph uses a quadratic number of steps, where each step is a linear morph (a linear interpolation between two drawings). This ... expand

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Authors: Gretchen L. Robertson GR Consulting Services, Arlington, Virginia

Deborah Hix   Virginia Tech Department of Computer Science, Blacksburg, Virginia

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Authors: Gretchen L. Robertson GR Consulting Services, Arlington, Virginia

Deborah Hix — Virginia Tech Department of Computer Science, Blacksburg, Virginia

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Making the Computer Accessible to Mentally Retarded Adults

GRETCHEN L. ROBERTSON AND DEBORAH HIX

Little research has been conducted on how to teach computer skills to developmentally disabled adults. A head counselor at a home for mentally retarded adults, who served as the inspiration for this article, was an enthusiastic personal computer user who tried to share computer instruction with home residents. Efforts at using commercial applications designed for young children were unsuccessful. Residents briefly watched the counselor use the applications, then lost interest. Staff members had neither the time nor the user interface background to investigate which applications and user interaction design factors might make computers accessible to home residents. In this article, we describe our empirical investigation of computer use among moderately developmentally disabled individuals. We investigated the input devices preferred, and the user interaction design issues to be considered when designing or selecting applications for this population.

Most research on computer use by the mentally retarded falls into two general categories: Computer science literature discusses advanced assistive technologies, such as eye-blink technologies and speech synthesizers, but does not address usability of commonly available devices for mentally retarded persons without severe physical limitations. Education and psychology literature describes use of computer technology in special education settings, focusing on teaching techniques rather than usabil-