DEPARTMENT: CERF'S UP

Turing Test 2

Computer programs are being used to emulate humans to fool less-sophisticated programs into treating computer-generated actions as if they originate from a human. This is an important practical problem.

Vinton G. Cerf

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DEPARTMENT: EDITORIAL

Toward Sustainable Access: Where Are We Now?

The publishing landscape is changing, and ACM with it. We take this opportunity to describe what ACM thinks about recent trends, recent changes, and the future.

Jack Davidson, Joseph Konstan, Andrew A. Chien, Scott Delman

Pages 6-7

DEPARTMENT: VARDI'S

INSIGHTS

How We Lost the Women in Computing

We cannot understand the current gender disparity in computing without understanding the history of women in computing. How did we lose the women in computing? They did not just leave; they were pushed out.

Moshe Y. Vardi

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DEPARTMENT: LETTERS

TO THE EDITOR

Get ACM (and *Communications*) Out of Politics

Recent editorial policy seems to have let ACM morph into what I would call the left-leaning ACM.

CACM Staff

Pages 20-11

DEPARTMENT: ACM'S

ELECTION

ACM's 2018 General Election

Meet the candidates who introduce their plans—and stands—for the Association.

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Pages 13-21

DEPARTMENT: BLOG@CACM

Commenting on Code, Considering Data's Bottleneck

Edwin Torres considers the enduring value of code comments, while Walid Saba wonders if we have overreacted to the knowledge acquisition bottleneck.

Edwin Torres, Walid Saba

Pages 24-25

COLUMN: NEWS

Shrinking Machines, Cellular Computers

Scientists are using DNA and RNA to build the world's tiniest robots and computing devices.

Gregory Mone

Pages 26-28

Using Functions for Easier Programming

Functional programming languages automate many of the details underlying specific operations.

Praise matters just as much as money.
Kate Matsudaira
Pages 63-64

SECTION: CONTRIBUTED

ARTICLES

More Than the Code: Learning Rules of Rejection in Writing Programs

A teacher and students coding together make explicit the unwritten rules of programming.
Josh Tenenberg, Wolff-Michael Roth, Donald Chinn, Alfredo Jornet, David Socha, Skip Walter
Pages 66-71

Internet Freedom in West Africa: Technical Support for Journalists and Democracy Advocates

The U.S. State Department's Internet Freedom agenda is being adapted to help them communicate without DNS and IP address filtering.
Richard R. Brooks, Lu Yu, Yu Fu, Oluwakemi Hambolu, John Gaynard, Julie Owono, Archippe Yepmou, Felix Blanc
Pages 72-82

Data Acquisition in Vehicular Ad Hoc Networks

The data comes from multiple optimal sources in parallel, helping reduce addressing and data-acquisition latency.
Xiaonan Wang
Pages 83-88

SECTION: REVIEW

ARTICLES

Speech Emotion Recognition: Two Decades in a Nutshell, Benchmarks, and Ongoing Trends

Tracing 20 years of progress in making machines hear our emotions based on speech signal properties.
Björn W. Schuller
Pages 90-99

SECTION: RESEARCH

HIGHLIGHTS

Technical Perspective: Breaking the Mold of Machine Learning

"Never-Ending Learning" is the latest and one of the most compelling incarnations of Tom Mitchell and his collaborators' research investigating how to broaden the machine learning field.
Oren Etzioni
Page 102

Never-Ending Learning

In this paper we define more precisely the never-ending learning paradigm for machine learning, and present one case study: the Never-Ending Language Learner (NELL), which achieves a number of the desired properties of a never …
T. Mitchell, W. Cohen, E. Hruschka, P. Talukdar, B. Yang, J. Betteridge, A. Carlson, B. Dalvi, M. Gardner, B. Kisiel, J. Krishnamurthy, N. Lao, K. Mazaitis, T. Mohamed, N. Nakashole, E. Platanios, A. Ritter, M. Samadi, B. Settles, R. Wang, D. Wijaya, A. Gupta, X. Chen, A. Saparov, M. Greaves, J. Welling
Pages 103-115

COLUMN: LAST BYTE

Free Press

When all online news and comment can be digitally manipulated, some might recall a more trustworthy way to spread the word.

Ken MacLeod

Pages 120-ff