



Association for
Computing Machinery

Advancing Computing as a Science & Profession

NEWS RELEASE

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ACM FELLOWS NAMED FOR COMPUTING INNOVATIONS THAT ARE ADVANCING TECHNOLOGY IN THE DIGITAL AGE

Accomplishments of 2015 Fellows Include Advances in Software Engineering, Data Management and Cryptography

NEW YORK, NY, December 8, 2015 – ACM, the world’s leading computing society, has recognized 42 of its members for their significant contributions to the development and application of computing in areas from data management and spoken-language processing to robotics and cryptography. The achievements of the [2015 ACM Fellows](#) are fueling advances in computing that are driving the growth of the global digital economy.

“Whether they work in leading universities, corporations, or research laboratories, these newly minted ACM Fellows are responsible for the breakthroughs and industrial innovations that are transforming society at every level,” explains ACM President Alexander L. Wolf. “At times, the contributions of a Fellow may include enhancements to a device that immediately impacts our daily lives. At other times, new research discoveries lead to theoretical advances that, while perhaps not immediately perceptible, have substantial long-term impacts.”

The 2015 ACM Fellows have been cited for contributions to key computing fields including software research, data mining, computer graphics, computer and mobile systems, system security, multiprocessor and memory architecture design, and research in sensor networks.

ACM will formally recognize the 2015 Fellows at the annual Awards Banquet, to be held in San Francisco in June. Additional information about the 2015 ACM Fellows, the awards event, as well as previous ACM Fellows and award winners is available on the [ACM Awards Site](#).

2015 ACM Fellows

Anastasia Ailamaki

EPFL

For contributions to the design, implementation, and evaluation of modern database systems.

Nancy M. Amato

Texas A&M University

For contributions to robotics and leadership in broadening participation in computing.

David M. Blei

Columbia University

For contributions to the theory and practice of probabilistic topic modeling and Bayesian machine learning.

Naehyuck Chang

KAIST

For contributions to low-power computing systems.

Hsinchun Chen

University of Arizona

For contributions to the research and development of security informatics and health informatics systems.

Mary P. Czerwinski

Microsoft Research

For contributions to human-computer interaction and leadership in the CHI community.

Giuseppe De Giacomo

Universita' di Roma "La Sapienza"

For contributions to description logics, data management, and verification of data-driven processes.

Paul Dourish

University of California, Irvine

For contributions in social computing and human-computer interaction.

Cynthia Dwork

Microsoft Research

For contributions to the science of database privacy, cryptography, and distributed computing.

Kevin Fall

Carnegie Mellon University

For contributions to delay-tolerant networking.

Babak Falsafi

EPFL

For contributions to multiprocessor and memory architecture design and evaluation.

Michael Franz

University of California, Irvine

For contributions to just-in-time compilation and optimization and to compiler techniques for computer security.

Orna Grumberg

Technion

For contributions to research in automated formal verification of hardware and software systems.

Ramanathan Guha

Google, Inc.

For contributions to structured data representation and specification and their impact on the Web.

Jayant R Haritsa

Indian Institute of Science, Bangalore

For contributions to the theory and practice of data management systems.

Julia Hirschberg

Columbia University

For contributions to spoken language processing.

Piotr Indyk

Massachusetts Institute of Technology

For contributions to high-dimensional geometric computing, streaming/sketching algorithms, and the Sparse Fourier Transform.

Tei-Wei Kuo

Research Center for Information Technology
Innovation, Academia Sinica

*For contributions to performance and reliability
enhancement of flash-memory storage systems.*

Xavier Leroy

INRIA

*For contributions to safe, high-performance
functional programming languages and compilers,
and to compiler verification.*

Chih-Jen Lin

National Taiwan University

*For contributions to the theory and practice of
machine learning and data mining.*

Bing Liu

University of Illinois at Chicago

*For contributions to knowledge discovery and data
mining, opinion mining, and sentiment analysis.*

Yunhao Liu

Tsinghua University

For contributions to sensor networks.

Michael George Luby

Qualcomm Inc.

*For contributions to coding theory, cryptography,
parallel algorithms and derandomization.*

Michael Rung-Tsong Lyu

The Chinese University of Hong Kong

*For contributions to the theory and practice of
software reliability engineering.*

Ueli M. Maurer

ETH Zurich

*For contributions to cryptography and information
security.*

Patrick McDaniel

Penn State University

*For contributions to computer and mobile systems
security.*

Victor Miller

IDA Center for Communications Research

*For contributions to cryptography and software
research.*

Elizabeth D. Mynatt

Georgia Institute of Technology

*For contributions to human-centered computing and
to the development of health information
technologies.*

Judea Pearl

UCLA

*For contributions to artificial intelligence through
the development of a calculus for probabilistic and
causal reasoning.*

Jian Pei

Simon Fraser University

*For contributions to the foundation, methodology and
applications of data mining.*

Frank Pfenning

Carnegie Mellon University

*For contributions to the logical foundations of
automatic theorem proving and types
for programming languages.*

Dragomir R. Radev

University of Michigan

*For contributions to natural language
processing and computational linguistics.*

Sriram Rajamani

Microsoft Research, India

*For contributions to software analysis and defect
detection.*

Pablo Rodriguez

Telefonica

*For contributions to content distribution
architectures in peer-to-peer networks.*

Mooly Sagiv

Tel Aviv University

*For contributions to the theory and practice of
automated analysis and verification of software.*

Peter Schröder

California Institute of Technology

*For contributions to computer graphics and
geometry processing.*

Assaf Schuster

Technion

For contributions to cloud computing.

Kevin Skadron

University of Virginia

For contributions in power- and thermal-aware modeling, design and benchmarking of microprocessors, including GPUs.

Wang-Chiew Tan

University of California Santa Cruz

For contributions to data provenance and to the foundations of information integration.

Santosh Vempala

Georgia Institute of Technology

For contributions to algorithms for convex sets and probability distributions.

Tandy Warnow

University of Illinois at Urbana-Champaign

For contributions to mathematical theory, algorithms, and software for large-scale molecular phylogenetics and historical linguistics.

Michael Wooldridge

University of Oxford

For contributions to multi-agent systems and the formalization of rational action in multi-agent environments.

About ACM

[ACM, the Association for Computing Machinery](#) is the world's largest educational and scientific computing society, uniting computing educators, researchers and professionals to inspire dialogue, share resources and address the field's challenges. ACM strengthens the computing profession's collective voice through strong leadership, promotion of the highest standards, and recognition of technical excellence. ACM supports the professional growth of its members by providing opportunities for life-long learning, career development, and professional networking.

About the ACM Fellows Program

The [ACM Fellows Program](#), initiated in 1993, celebrates the exceptional contributions of the leading members in the computing field. These individuals have helped to enlighten researchers, developers, practitioners and end users of information technology throughout the world. The new ACM Fellows join a distinguished list of colleagues to whom ACM and its members look for guidance and leadership in computing and information technology.

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