NEWS RELEASE

Contact: Jim Ormond
           212-626-0505
           ormond@hq.acm.org

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
Università 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.