Column: From the EIC

A Look at the Bibliometrics

George Pallis
University of Cyprus

It is well known that metrics are used as a continual improvement tool to measure the productivity and impact in any product. Each metric may offer different information based on data source and method of calculation. This means that the performance of a product cannot be assessed by only one metric since each metric measures a different aspect of productivity. Thus, if we would like to have a complete picture, we should use multiple complementary metrics than using only one metric.

For measuring a scientific journal's impact, several bibliometrics have been proposed in the literature. The most well-known metrics are the impact factor (calculated by Clarivate Analytics as the average of the sum of the citations received in a given year to a journal's previous two years of publications divided by the sum of "citable" publications in the previous two years), eigenfactor (created to capture the value of publication output versus journal quality; also known as the "Google PageRank" for journals), and the article influence score (calculated by dividing the eigenfactor by the number of articles published in the journal).

According to the 2019 journal citation reports (based on 2018 data), *IEEE Internet Computing* has reached a journal impact factor of 2.891. This is the highest impact factor for *IEEE Internet Computing* since 2009. The rise in impact reflects our ongoing commitment to deliver the highest quality content in the Internet computing discipline. Regarding the other metrics, the eigenfactor is 0.002390 and the article influence score is 0.606. A detailed report regarding the bibliometrics can be found at the Clarivate Analytics website (https://clarivate.com/blog/science-research-connect/announcing-the-2019-journal-citation-reports). I would like to express my gratitude to the editorial board members, authors, reviewers, and readers for their continued support for *IEEE Internet Computing*, and to the research community at large for sustaining the magazine as the premier forum for Internet computing research.

EDITORIAL BOARD UPDATES

I would like to welcome the following new Associate Editors who have recently joined the Editorial Board.

- Songqing Chen is currently a Full Professor of Computer Science at George Mason University. His research interests mainly focus on design, analysis, and implementation of algorithms and experimental systems in the distributed and networking environment, particularly in the areas of Internet content delivery systems,

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Internet measurement and modeling, mobile and cloud computing, network and system security, and distributed system. He is a recipient of the U.S. NSF CAREER Award and the AFOSR YIP Award. Besides serving on the technical committee for various conferences, he has also served in various capacities in conference organizing committees, most recently as the General Chair of the ACM/IEEE SEC 2019, TPC track Cochair of ICDCS 2017, TPC Cochair of HotWeb 2017, and General Chair of HotWeb 2016. He is also currently serving as Chair of the IEEE Technical Committee on the Internet. He received the B.S. and M.S. degrees in computer science from the Huazhong University of Science and Technology in 1997 and 1999, respectively, and the Ph.D. degree in computer science from the College of William & Mary in 2004.

- Ewa Deelman is currently a Research Director at the University of Southern California's Information Sciences Institute (ISI), which she joined after following a postdoc at the UCLA Computer Science Department in 2000, and is leading the Science Automation Technologies group. She is also a Research Professor at the USC Computer Science Department. The USC/ISI Science Automation Technologies group explores the interplay between automation and the management of scientific workflows that include resource provisioning and data management. She pioneered workflow planning for computations executing in distributed environments. Her research group has led the design and development of the Pegasus Workflow Management software (http://pegasus.isi.edu) and conducts research in job scheduling and resource provisioning in distributed systems, workflow performance modeling, provenance capture, and the use of cloud platforms for science. She received the Ph.D. degree in computer science from the Rensselaer Polytechnic Institute in 1998. She is an IEEE fellow and the PI of the recently NSF-funded Pilot Study for a Cyberinfrastructure Center of Excellence (http://cicoe-pilot.org).
- Qun Li is currently a Professor with the Department of Computer Science, College of William & Mary, where he served as the Graduate Director of the department in 2010–2011. He holds the Ph.D. degree in computer science from Dartmouth College. His research focuses on edge computing, Internet of Things, mobile computing, wireless networks, machine learning, and security and privacy. He is the recipient of a NSF Faculty Early Career Development (CAREER) Award and an IEEE Fellow. He served as a Program Chair for multiple conferences and as TPC member for numerous conferences and workshops. He also served as the Steering Committee Chair of the IEEE Transactions on Multi-Scale Computing Systems and on the editorial board of multiple journals, such as IEEE Transactions on Wireless Communications.
- Pınar Yolum is currently a Professor of computer engineering at Bogazici University, Turkey, and an Associate Professor of computer science at Utrecht University, the Netherlands. Her research includes privacy in online systems. She has authored or coauthored more than 100 papers in selected journals and conferences. She serves on the editorial boards of various journals, including *Journal of Autonomous Agents and Multiagent Systems* and *ACM Transactions on Internet Technology*. She served as a Board Member of International Foundation for Autonomous Agents and Multiagent Systems from 2010 to 2016. She served as the Program Cochair of International Conference on Autonomous Agents and Multiagent Systems in 2011 and as General Cochair in 2015. She is one of the 25 inaugural members of the North Carolina State University Computer Science Department Alumni Hall of Fame. She is the recipient of 2017 Woman Entrepreneur of the Year Award in Turkey. She regularly writes for BolBilim.com, a Turkish website dedicated to sharing experiences about academic life in Turkey.

IN THIS ISSUE

This issue focuses on live video analytics, which is a killer application for Internet Computing. Video analytics can be embedded at the edge and/or cloud, processing video content in real-time, extracting metadata, sending out alerts, and

providing actionable intelligence to users or other systems. Guest Editors Ganesh Ananthanarayanan (Microsoft Research) and Weisong Shi (Wayne State University) have selected four articles that deal with issues and solutions in video analytics and present their impact in society, science, and business. Many thanks to Ganesh and Weisong for editing this Special Issue.

This issue also features the new department on "Knowledge Graphs" (Editor: Amit Sheth), the department "Internet Governance" (Editor: Virgilio Almeida) and the department "Internet of Things People, and Processes" (Editor: Schahram Dustdar). I hope that you enjoy reading this issue.

George Pallis is currently an Assistant Professor of computer science with the University of Cyprus, Nicosia, Cyprus. His research interests include distributed systems, cloud computing, and big data analytics. He received the Ph.D. degree in computer science from the Aristotle University of Thessaloniki, Thessaloniki, Greece. Contact him at gpallis@cs.ucy.ac.cy.