

AIC 2021 Keynote Speakers



Jemal H. Abawajy, Cybersecurity Research and Innovation Centre, [Deakin University](#)
Burwood, VIC, Australia

Specialization: cloud computing, learning (artificial intelligence), pattern classification, Internet, computer centres, invasive software, optimisation, particle swarm optimization.

Biography

Jemal H. Abawajy (Senior Member, IEEE) received the B.S.E., M.Sc., Ph.D., and D.Sc. degrees. He is currently a Full Professor with the Faculty of Science, Engineering, and Built Environment, Deakin University, Australia. He has delivered more than 60 keynotes worldwide and has authored/coauthored several books and about 400 refereed articles in premier venues and supervised numerous Ph.D. students to completion. He has been actively involved in the organization of more than 350 conferences all over the world in various capacity, including the chair, the general co-chair, the vice-chair, the best paper award chair, the publication chair, and the session chair and involved in the program committee. He has also served/serving on the Editorial Board for numerous international journals, including the IEEE Transactions on Cloud Computing. (*Based on [document published](#) on 5 July 2021*).



Professor Mike Hinchey is President of IFIP, the International Federation for Information Processing (www.ifip.org), founded by UNESCO in 1960 and is Emeritus Director of Lero-the Science Foundation Ireland Centre for Software, and Professor of Software Engineering at University of Limerick, Ireland.

Prior to joining Lero, Professor Hinchey was the Director of the NASA Software Engineering Laboratory. The holder of 30 US patents, in 2009 he was awarded NASA's Kerley Award as Innovator of the Year and is recognized in the NASA Inventors Hall of Fame.

Professor Hinchey holds a B.Sc. in Computer Systems from University of Limerick, an M.Sc. in Computation from University of Oxford and a PhD in Computer Science from University of Cambridge. Professor Hinchey is a Chartered Engineer, Chartered Engineering Professional, Chartered Mathematician and Chartered Information Technology Professional, as well as a Fellow of the IET, British Computer Society, Engineers Australia, Engineers Ireland, and Irish Computer Society, of which he is also President. In 2018 he became an Honorary Fellow of the Computer Society of India and was the SEARCC Global ICT Professional of the Year 2018.

He was Chair of IEEE UK & Ireland Section for 2018-2019. He is the author/editor of more than 20 books and over 200 papers on various aspects of computing, software engineering, and autonomous systems. He is Editor-in-Chief of Innovations in Systems and Software Engineering: a NASA Journal (Springer) and Journal of the Brazilian Computer Society (Springer).



Dr. Rajkumar Buyya is a Redmond Barry Distinguished Professor and Director of the Cloud Computing and Distributed Systems ([CLOUDS](#)) Laboratory at the [University of Melbourne](#), Australia. He is also serving as the founding CEO of Manjrasoft Pty Ltd., a spin-off company of the University, commercialising its innovations in Cloud Computing. He served as a Future Fellow of the Australian Research Council during 2012-2016. He serving/served as Honorary/Visiting Professor for several elite Universities including Imperial College London (UK), University of Birmingham (UK), University of Hyderabad (India), and Tsinghua University (China). He received B.E and M.E in Computer Science and Engineering from Mysore and Bangalore Universities in 1992 and 1995 respectively; and a Doctor of Philosophy (PhD) in Computer Science and Software Engineering from Monash University, Melbourne, Australia in 2002. He was awarded Dharma Ratnakara Memorial Trust Gold Medal in 1992 for his academic excellence at the University of Mysore, India. He received Richard Merwin Award from the IEEE Computer Society (USA) for excellence in academic achievement and professional efforts in 1999. He received Leadership and Service Excellence Awards from the IEEE/ACM International Conference on High Performance Computing in [2000](#) and [2003](#). He received "Research Excellence Awards" from the University of Melbourne for productive and quality research in computer science and software engineering in 2005 and 2008. With over [102,000 citations](#), a g-index of 307, and an h-index of [138](#), he is the highest cited computer scientist in Australia and one of the world's [Top 30 cited authors](#) in computer science and software engineering. He

received the Chris Wallace Award for Outstanding Research Contribution 2008 from the Computing Research and Education Association of Australasia, [CORE](#), which is an association of university departments of computer science in Australia and New Zealand. Dr. Buyya received the ["2009 IEEE TCSC Medal for Excellence in Scalable Computing"](#) for pioneering the economic paradigm for utility-oriented distributed computing platforms such as Grids and Clouds. He served as the founding Editor-in-Chief (EiC) of [IEEE Transactions on Cloud Computing \(TCC\)](#). Dr. Buyya is recognized as a ["Web of Science Highly Cited Researcher"](#) for four consecutive years since 2016, a [Fellow of IEEE](#) and Scopus Researcher of the Year 2017 with [Excellence in Innovative Research Award](#) by Elsevier, and "Lifetime Achievement Awards" from two Indian universities for his outstanding contributions to Cloud computing and distributed systems. He has been recently recognised as the ["Best of the World"](#), in Computing Systems field, by The Australian 2019 Research Review.

Dr. Buyya has contributed to the creation of high-performance computing and communication [system software](#) for PARAM supercomputers developed by the Centre for Development of Advanced Computing ([C-DAC](#)), India. He has pioneered Economic Paradigm for Service-Oriented Distributed Computing and demonstrated its utility through his contribution to conceptualisation, design and development of Grid and Cloud Computing technologies such as [Aneka](#), [GridSim](#), [Libra](#), [Nimrod-G](#), [Gridbus](#), and [Cloudbus](#) that power the emerging eScience and eBusiness applications. He has been awarded, over \$8 million, competitive research grants from various national and international organisations including the Australian Research Council (ARC), Sun Microsystems, StorageTek, IBM, and Microsoft, CA Australia, Australian Dept. of Innovation, Industry, Science and Research (DIISR), and European Council. Dr. Buyya has been remarkably productive in a research sense and has converted much of that knowledge into linkages with industry partners (such as IBM, Sun and Microsoft), into software tools useful to other researchers in a variety of scientific fields, and into community endeavours. Software technologies for Grid and Cloud computing developed under Dr. Buyya's leadership have gained rapid acceptance and are in use at several academic institutions and commercial enterprises in 50 countries around the world. In recognition of this, he [received](#) Vice Chancellor's inaugural "Knowledge Transfer Excellence (Commendation) Award" from the University of Melbourne in Nov 2007. Manjrasoft's Aneka technology for Cloud Computing developed under Dr. Buyya's leadership has received ["2010 Asia Pacific Frost & Sullivan New Product Innovation Award"](#). Recently, Dr. Buyya received "Bharath Nirman Award" and "Mahatma Gandhi Award" along with Gold Medals for his outstanding and extraordinary achievements in Information

Technology field and services rendered to promote greater friendship and India-International cooperation.

Dr. Buyya has authored/co-authored over 850 [publications](#). During 2007-2011, he received five "Best Paper Awards" from international conferences and an "2009 Outstanding Journal Paper Award" from the IEEE Communications Society, USA. He has co-authored five text books: *Microprocessor x86 Programming* (BPB Press, New Delhi, India, 1995), *Mastering C++* (McGraw Hill Press, India, 1st edition in 1997 and 2nd edition in 2013), *Object Oriented Programming with Java: Essentials and Applications* (McGraw Hill, India, 2009), *Mastering Cloud Computing* (Morgan Kaufmann, USA; McGraw Hill, India, 2013; China Machine Press, 2015), and *Cloud Data Centers and Cost Modeling* (Morgan Kaufmann, USA, 2015). The books on emerging topics that he edited include, [High Performance Cluster Computing](#) (Prentice Hall, USA, 1999), [High Performance Mass Storage and Parallel I/O](#) (IEEE and Wiley Press, USA, 2001), [Content Delivery Networks](#) (Springer, Germany, 2008), [Market Oriented Grid and Utility Computing](#) (Wiley Press, USA, 2009), and [Cloud Computing: Principles and Paradigms](#) (Wiley, USA, 2011). He also edited proceedings of over 25 international conferences published by prestigious organisations, namely the IEEE Computer Society Press (USA) and Springer Verlag (Germany). He served as Associate Editor of Elsevier's Future Generation Computer Systems Journal (2004-2009) and currently serving on editorial boards of many journals including Software: Practice and Experience (Wiley Press). Dr. Buyya served as a speaker in the IEEE Computer Society Chapter Tutorials Program (from 1999-2001), Founding Co-Chair of the IEEE Task Force on Cluster Computing ([TFCC](#)) from 1999-2004, and member of the Executive Committee of the IEEE Technical Committee on Parallel Processing ([TCPP](#)) from 2003-2011. He served as the first elected Chair of the IEEE Technical Committee on Scalable Computing ([TCSC](#)) during 2005-2007 and played a prominent role in the creation and execution of several innovative [community programs](#) that propelled TCSC into one of the most successful TCs within the IEEE Computer Society. In recognition of these dedicated services to computing community over a decade, President of the IEEE Computer Society presented Dr. Buyya a Distinguished Service Award in 2008.

Dr. Buyya is a Fellow of IEEE and [Life Member of ACM](#). He has co-founded five IEEE/ACM international conferences: [CCGrid](#), [Cluster](#), [Grid](#), [e-Science](#), and [UCC \(Utility and Cloud Computing\)](#) and served as the Chair of their inaugural meetings. He has presented over 600 invited talks (keynotes, tutorials, and seminars) on his vision on IT Futures and advanced computing technologies at international

conferences and institutions in Asia, Australia, Europe, North America, and South America. For further information on Dr. Buyya, please visit: <http://www.buyya.com>