



Professor Karu Esselle, IEEE 'M (1992), SM (1996), F (2016), received BSc degree in electronic and telecommunication engineering with First Class Honours from the University of Moratuwa, Sri Lanka, and MAsc and PhD degrees with near-perfect GPA in electrical engineering from the University of Ottawa, Canada. He is a Professor of Electronic Engineering, Macquarie University, Sydney, Past Director of WiMed Research Centre and

Past Associate Dean - Higher Degree Research (HDR) of the Division of Information and Communication Sciences. He has also served as a member of the Dean's Advisory Council and the Division Executive and as the Head of the Department several times. In 2018, he has been selected to chair the prestigious Distinguished Lecturer Program Committee of the IEEE Antennas and Propagation (AP) Society - the premier global learned society dedicated for antennas and propagation - which has over 8,000 members worldwide, and was re-selected in 2019. After two stages in the selection process, Karu was also selected by this Society as one of two candidates in the ballot for 2019 President of the Society. Only three people from Asia or Pacific apparently have received this honour (one from Australia and two from Japan) in the 68-year history of this Society. Karu is also one of the three Distinguished Lecturers (DL) selected by the Society in 2016. He is the only Australian to chair the AP DL Program ever, the only Australian AP DL in almost two decades, and second Australian AP DL ever. He has been continuously serving the IEEE AP Society Administrative Committee in several elected or ex-officio positions since 2015. Karu is also the Chair of the Board of management of Australian Antenna Measurement Facility, and was the elected Chair of both IEEE New South Wales (NSW), and IEEE NSW AP/MTT Chapter, in 2016 and 2017. He directs the

Centre for Collaboration in Electromagnetic and Antenna Engineering. Karu was elevated to prestigious IEEE Fellow grade for his contributions to resonance-based antennas. He is also a Fellow of Engineers Australia.

Karu has authored approximately 600 research publications and his papers have been cited over 8,250 times. In 2018 alone his publications received 1077 citations. He is the first Australian antenna researcher ever to reach Google Scholar h-index of 30 and his citation indices have been among the top Australian antenna researchers for a long time (in July 2019: i10 is 163 and h-index is 43). Since 2002, his research team has been involved with research grants, contracts and PhD scholarships worth over 18 million dollars, including 15 Australian Research Council grants, without counting the 245 million-dollar SmartSat Corporative Research Centre, which started in 2019. His research has been supported by many national and international organisations including Australian Research Council, Intel, US Air Force, Cisco Systems, Hewlett-Packard, Australian Department of Defence, Australian Department of industry, and German and Indian governments.

Karu is in the College of Expert Reviewers of the European Science Foundation (2019-22) and he has been invited to serve as an international expert/research grant assessor by several other research funding bodies as well, including European Research Council and national agencies in the Netherlands, Canada, Finland, Hong-Kong, Georgia, South Africa and Chile. He has been invited by Vice-Chancellors of Australian and overseas universities to assess applications for promotion to professorial levels. He has also been invited to assess grant applications submitted to Australia's most prestigious schemes such as Australian Federation Fellowships and Australian Laureate Fellowships. In addition to the large number of invited conference speeches he has given, he has

been an invited keynote speaker of several IEEE and URSI conferences and workshops.

Karu's awards include selection as a Finalist for the forthcoming 2019 Macquarie University Research Excellence Awards for Innovative Technologies, 2019 Motohisa Kanda Award (from IEEE USA) for the most cited paper in *IEEE Transactions on EMC* in the past five years, 2019 ARC Discovery International Award, 2017 Excellence in Research Award from the Faculty of Science and Engineering, 2017 Engineering Excellence Award for Best Innovation, 2017 Highly Commended Research Excellence Award from Macquarie University, 2017 Certificate of Recognition from IEEE Region 10, 2016 and 2012 Engineering Excellence Awards for Best Published Paper from IESL NSW Chapter, 2011 Outstanding Branch Counsellor Award from IEEE headquarters (USA), 2009 Vice Chancellor's Award for Excellence in Higher Degree Research Supervision and 2004 Innovation Award for best invention disclosure. His mentees have been awarded many fellowships, awards and prizes for their research achievements. Forty-eight international experts who examined the theses of his recent PhD graduates ranked them in the top 5% or 10%.

Karu has provided expert assistance to more than a dozen companies including Intel, Hewlett Packard Laboratory (USA), Cisco Systems (USA), Audacy (USA), Cochlear, Optus, ResMed and Katherine-Werke (Germany). He is an Associate Editor of *IEEE Transactions on Antennas Propagation* as well as *IEEE Access*.

Karu is the Technical Program Committee Co-Chair of ISAP 2015, APMC 2011 and TENCON 2013 and the Publicity Chair of ICEAA 2016, IWAT 2014 and APMC 2000. His research activities are posted in the web at <http://web.science.mq.edu.au/~esselle/> .