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劉國瑞 研發科學家
Scientist K. J. Ray Liu
Origin Wireless



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Abstract

True scholarship lies in learning how to ask the right questions. Professor K. J. Ray Liu shares his extraordinary journey from a humble youth in Taiwan, to the pinnacle of the global stage. Driven by the philosophy of 'staying true to one's core,' he reveals how he overcame cultural shocks, research setbacks, and systemic biases to earn international acclaim through sheer merit, contributions, and grit. From pioneering breakthroughs in signal processing and wireless communications to founding successful ventures and leading global academic institutions, this is more than just a scientist's biography—it is a profound exploration of knowledge, courage, and unwavering conviction.

Biography

K. J. Ray Liu is the founder of the award-winning Origin AI, acquired by ADT in 2026, that pioneers ambient sensing and intelligence. He was the 2022 IEEE President and CEO and 2012-13 President of IEEE Signal Processing Society. He retired from University of Maryland, College Park, as Distinguished University Professor. He has trained 76 doctoral/postdoctoral students, of which 14 are now IEEE fellows. According to Mathematics Genealogy Project, he has had over 200 doctoral descendants. Dr. Liu is a recipient of many prestigious awards, including two IEEE Technical Field Awards: the 2021 IEEE Fourier Award for Signal Processing and the 2016 IEEE Leon K. Kirchmayer Graduate Teaching Award, and also 2026 IEEE Haraden Pratt Award, IEEE Signal Processing Society 2014 Norbert Wiener Lifetime Achievement Award, 2009 Claude Shannon-Harry Nyquist Technical Achievement Award, and more than a dozen best paper awards. Recognized as a Web of Science Highly Cited Researcher, he is a member of National Academy of Engineering and a Fellow of IEEE, the American Association for the Advancement of Science (AAAS), and the National Academy of Inventors.

For more information:
<http://www.iis.sinica.edu.tw/>

