

## Biography - Paul C.-P. Chao:

Dr. Paul C.-P. Chao received his Ph.D. degree from Michigan State University, USA, and then with Chrysler Corp in Auburn Hill, Detroit, USA before he joined National Chiao Tung University (NCTU), Taiwan. He is currently University Distinguished Professor of the electrical engineering department at NCTU. His research interests focus on sensors, actuators and their interface circuitry. Dr. Chao has published more than 270 peer-reviewed papers (books, journal papers, conferences, reports) and 38 patents.

Dr. Chao was the recipient of the 1999 Arch T. Colwell Merit Award from Society of Automotive Engineering, Detroit, USA; the 2004 Long-Wen Tsai Best Paper Award from National Society of Machine Theory and Mechanism, Taiwan; the 2005 Best Paper Award from National Society of Engineers, Taiwan; the 2007 Acer Long-Term Award; the 2009 Best Paper Award from the Symposium on Nano-Device Technology; the 2010/2014 Best Paper Award from the Annual ASME Conference on Information Storage and Processing Systems (ISPS); the second most downloaded paper in IEEE Sensors Journal in 2011; the Best Poster Paper award of IDMC 2015; the prestigious Outstanding Research Award from National Association of Automatic Control in Taiwan in 2015; the prestigious National Innovation Award of Taiwan government 2016; The 2017 Best Industrial Project Award by Ministry of Science and technology, Taiwan government; The 2017 **Presidential Outstanding Professor of Engineering in Nation (Taiwan) (awarded by the president of the nation in the Presidential House of Taiwan, ROC)**; Two 2017 Future Technology Awards (Taiwan Oscar Invention Award) from Ministry of Science and Technology (MOST), Taiwan Government.

Dr. Chao has served as University Associate Vice Presidents of NCTU for academic affairs (2009-2010) and research and development (2015); the Secretary General, IEEE Taipei Section, 2009-2010; the founding chair of Taipei chapter for the IEEE Sensor Council; Member-at-Large for IEEE Sensors Council, 2012-2014. Dr. Chao received major IEEE awards for this service: The IEEE Large Section Award from IEEE Head Quarter for the outstanding service as the Secretary for 2009-2010, and The IEEE MGA Award from IEEE Region 10 for outstanding service as the Secretary for IEEE Taipei Section, 2009-2010; The 2017 Best Topical Editor, Runner up, IEEE Sensors Journal. He was the General Chair of the 2016 ASME ISPS and IoT conference in Santa Clara, CA, USA; chairs and co-chairs of major conferences. For editorial services, he is currently Topical Editors of IEEE Sensors Journal and IEEE IoT

Journal; the Associate Editors of ASME Journal of Vibration and Acoustics and Journal of Circuit, System and Computer; guest editors of special journal issues. He is a senior member of IEEE and ASME Fellow.

The most significant technical contributions to date by Dr. Chao are on automatic ball balancers (ABB), optical image stabilizer (OIS) and cuffless blood flow sensors. Dr. Chao is the true initiator of the research on ABB and OIS in the world, while the first scholar developed successfully a cuffless blood pressure/flow monitor using only a single photoplethysmography (PPG) sensor.