

## **Arogyaswami J Paulraj**

Professor Emeritus, Stanford University,  
232, Packard, Stanford, Ca, 94305, USA  
[apaulraj@stanford.edu](mailto:apaulraj@stanford.edu)

### **Education**

1973 Ph.D. Indian Institute of Technology, New Delhi, India  
1966 B. E. Naval College Engineering, Lonavala, India

### **Employment**

2015 – Dist. Prof. Indian Institute of Technology, Madras  
2013 - Visiting Professor, Beijing Institute of Post and Telegraphs, Beijing  
2013 - Visiting Professor, Imperial College, London  
2013 – 2016 Chief Technology Officer, Rasa Networks, San Jose  
2010 - Professor Emeritus, Stanford University  
2010 - 2014 Sr. Advisor, Broadcom Corp., Irvine  
2004 - 2010 Chief Technology Officer, Beceem Communications Inc., San Jose  
1998 - 2003 Chief Technology Officer, Iospan Wireless Inc., San Jose  
1993 - 2010 Professor (Research), Stanford University  
1992 - 1992 Visiting Scientist, Stanford University  
1988 - 1991 Chief Scientist, Central Research Lab, Bharat Electronics, Bangalore  
1988 - 1991 Director, Center for Development of Advance Computing, Pune  
1987 - 1988 Director, Center for Artificial Intelligence and Robotics, Bangalore  
1983 - 1986 Visiting Scientist, Stanford University  
1976 - 1983 Division Head, Naval Physical & Oceanographic Laboratory, Cochin  
1974 - 1975 Research Fellow, Loughborough University of Technology, UK  
1973 - 1974 Project Leader, Indian Institute of Technology, New Delhi

### **Professional Awards**

2018 Radio Communications Committee, Technical Award, IEEE  
2018 China Friendship Award, Govt. of PR China  
2018 National Inventors Hall of Fame, US Patent and Trademark Office  
2014 Marconi Prize and Fellowship, Marconi Foundation  
2011 Alexander Graham Bell Medal, IEEE  
2010 Padma Bhushan (Third highest civilian National Award - India)  
1999 Ogawa Foundation Award  
1985 Scientist of the Year (Awarded by Government of India)  
1983 Ati Vishist Seva Medal (Military National Award - India)  
1982 VASVIK Gold Medal (Industry Innovation)  
1974 V.K. Jain Memorial Gold Medal  
1974 Vishist Seva Medal (Military National Award - India)  
1973 CNS Medal for research contributions in electronics

### **Best Paper Awards**

## Arogyaswami J Paulraj

|      |   |
|------|---|
| 2010 | IEEE VTS Neal Shepherd Best Paper Award         |
| 2004 | IEEE VTS Neal Shepherd Best Paper Award         |
| 2003 | IEEE SP Society Technical Achievement Award     |
| 1998 | Best Paper Award IEEE Signal Processing Society |

### National Academies / Prof. Society Fellow Grade Recognitions

|      |   |
|------|---|
| 2015 | Foreign Fellow, Chinese Academy of Engineering                |
| 2015 | Overseas Fellow, Indian National Science Academy              |
| 2013 | Honorary Fellow, Indian Academy of Sciences, India            |
| 2011 | Foreign Fellow, National Academy of Sciences, India           |
| 2010 | Fellow, American Association for Advancement of Sciences      |
| 2008 | Foreign Member, Royal Swedish Academy of Engineering Sciences |
| 2007 | Foreign Member, The World Academy of Sciences (TWAS)          |
| 2006 | Member, US National Academy of Engineering                    |
| 1998 | Fellow, Indian National Academy of Engineering                |
| 1990 | Fellow, IEEE  |

### Other Recognitions

|      |  |
|------|--|
| 2014 | Lifetime Achievement Award, India Abroad                           |
| 2013 | Lifetime Achievement Award, FETNA                                  |
| 2011 | Pan-IIT Technology Leadership Award                                |
| 1998 | Distinguished Alumnus Award, Indian Institute of Technology, Delhi |

### Company / Center Founding

|      |  |
|------|--|
| 2014 | Founder, Rasa Networks Inc. (Acquired by HPE, 2016)                              |
| 2004 | Co-Founder, Beceem Comm. Inc., Santa Clara. Acquired by Broadcom Corp., 2010     |
| 1998 | Founder, Gigabit Wireless (later Iospan Wireless). Acquired by Intel Corp., 2003 |
| 1995 | Co-Founder, Spectrum InfoTech (India). Acquired by L&T (India), 2007             |
| 1988 | Founding Director, Central Research Laboratory, Bharat Electronics, India*       |
| 1988 | Co-Founding Director, Center for Development of Adv. Computing, India*           |
| 1986 | Founding Director, Center for Artificial Intelligence and Robotics, India*       |

### Graduated Students at Stanford University

26 Ph.D. and 26 Post-Doctoral

### Publications/Patents (List Attached)

|   |    |
|---|----|
| Text Books                                | 2  |
| Edited Books (Research Paper Collections) | 6  |
| Contributions to Books                    | 18 |

## **Arogyaswami J Paulraj**

|   |     |
|---|-----|
| Archival Journal Publications and Book Chapters | 143 |
| Refereed Conference Publications                | 298 |
| Issued US Patents                               | 80  |

### **Product Development in Industry / R&D Laboratory**

|             |   |
|-------------|---|
| 2004 - 2010 | 4G WiMAX / LTE Semiconductors for Terminals (Beceem Communications) |
| 1998 - 2003 | Pre-4G MIMO-OFDMA Wireless Access System (Iospan Wireless)          |
| 1987 - 1991 | Parallel Computer (CDAC India)                                      |
| 1977 - 1983 | APSOH ASW Surface Ship Sonar (NPOL India)                           |
| 1972 - 1973 | Sonar 170B System (IIT Delhi)                                       |