

Arogyaswami J Paulraj

Education

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

Employment

1993 – Professor (Research), Stanford University
2005 – Chief Technology Officer, Beceem Communications Inc., San Jose
1999 – 2003 Chief Technology Officer, Iospan Wireless Inc., San Jose
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 Art. Intel, and Robotics, Bangalore
1983 – 1986 Visiting Scientist, Stanford University
1976 – 1983 Division Head, Naval Physical & Ocean Research, Cochin
1974 – 1975 Research Fellow, Loughborough University of Technology, UK
1973 Project Leader, Indian Institute of Technology, New Delhi

Company / Center Founding

1. 2004 Co-Founder, Beceem Communications Inc., Santa Clara
2. 1999 Founder, Gigabit Wireless (later Iospan Wireless), acquired by Intel Corporation
3. 1995 Co-Founder, Spectrum InfoTech (India), acquired by L&T
4. 1988 Founding Director, Central Research Laboratory, Bharat Electronics, India
5. 1988 Co-Founding Director, Center for Development of Adv. Computing, India
6. 1986 Founding Director, Center for Artificial Intelligence and Robotics, India

Current Teaching

EE 492M Space-time Wireless Communications

Publications

1. Text Book (with D. Gore and R. Nabar) *Introduction to Space-Time Wireless Communication*, Cambridge University. Press, 2003
2. Text Book – E Biglieri, A. Constantinides, R. Calderbank, A. Goldsmith, A. Paulraj and V. Poor. *Introduction to MIMO Wireless*, Cambridge University. Press, Nov. 2006
3. Edited Books (Research Paper Collections) – 4
4. Archival Journal Publications and Book Chapters – 116
5. Refereed Conference Publications – 250

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Patents

29 US Patents Issued

Current Councils and Committees

1. 2003 – Member, Governing Council,
Dhirubhai Institute of Information and Communication Technology, India
2. 2003 – Member, Governing Council,
Center for Excellence in Wireless Technology, India
3. 2003 – Member,
ACE Advance Council, EC
4. 2001 – Member, Advisory Committee
Department of EE, University of California, Riverside

Current Company Boards

1. 2004 – Beceem Communications Inc.
2. 1998 – BPL Telecom Ltd.
3. 1996 – ICOMM Tele Ltd.

Recent Ten Conference Keynote / Plenary Lectures

1. Jan 2007 Stanford Leadership Conference, Mumbai
2. Jan 2007 ASSOCHAM WIMAX, New Delhi
3. 2006 June RFIC, San Francisco
4. 2006 May SPWC, London
5. 2005 September PMIRC 2005, Berlin
6. 2005 September VTC 2005, Dallas
7. 2005 June IEEE SPWC, Kings College, London
8. 2004 September RAWCON, Atlanta
9. 2004 October Information Theory Workshop, San Antonio
10. December 2004 SPCOM, Bangalore

Recent Ten Distinguished Lectures

1. 2005 Council for International Relations, Santa Fe
2. 2003 July Athens Information Technology, Valedictory Day
3. 2002 August IEEE India, Bangalore, BPL Lecture
4. 2002 June University. of Illinois, Chicago
5. 2001 September Samsung R&D Center, Seoul, Annual Day
6. 2001 May University of Hong Kong, William Mong Lecture
7. 2001 March National Defense Academy, Khadakvasla
8. 2001 March Foundation Day Lecture, Center for Development of Advanced Computing
9. 1998 October The Eighth Admiral R D Katari Memorial Lecture, Indian Navy
10. 1997 IEEE Distinguished Lectureship

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Professional Awards

1. 2004 IEEE VTS Neal Shepherd Best Paper Award
2. 2003 IEEE SPS Technical Achievement Award
3. 1998 Distinguished Alumnus Award, IIT, Delhi
4. 1998 Best Paper Award (with A. van der Veen) IEEE Signal Processing Society
5. 1993 Gowri Medal, Institution Electronic Telecommunication Engineers, India
6. 1985 Scientist of the Year – Awarded by Government of India
7. 1983 AtiVishisht Seva Medal
8. 1982 VASVIK Award
9. 1974 V.K. Jain Memorial Gold Medal
10. 1974 Vishit Seva Medal
11. 1973 Chief of Naval Staff Medal for research contributions in electronics

Fellow Grade / Academy Recognitions

12. 2006 Member, US National Academy of Engineering
13. 1998 Fellow, Indian National Academy of Engineering
14. 1990 Fellow, IEEE
15. 1990 Fellow, Institution of Engineers
16. 1987 Fellow, Institution of Electronics and Telecom. Engineers, India

Current Ph.D. Students

1. M. Emami
2. M. Charafeddine
3. S. Pereira

Current Post-Doctoral Students

1. Dr. A. Sezgin

Graduated Doctoral Students

1. Dr. C-Y. Chang (1995)
2. Dr. D. Gerlach (1995)
3. Dr. S. Talwar (1996)
4. Dr. A. Naguib (1996)
5. Dr. M. Van der Veen (1997)
6. Dr. J.W. Liang (1998)
7. Dr. B .Ng (1998)
8. Dr. M Sriram (2000)
9. Dr. R.W. Heath (2001)

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10. Dr. H. Sampath (2001)
11. Dr. S. Sandhu (2002)
12. Dr. R. Nabar (2003)
13. Dr. D. Gore (2003)
14. Dr. W. Roh (2003)
15. Dr. D Bannerjee (2004)
16. Dr. K. Oteri (2005)
17. Dr. Tareq Al-Naffouri (2005)
18. Dr. E Yoon (2005)
19. Dr. O Oyman (2005)
20. Dr. M. Vu (2006)
21. Dr. E. Stauffer (2006)

Graduated Post-Doctoral Students

1. Dr. K. Gustaffson 1/93 – 10/93
2. Dr. A. van der Veen 1/94 – 6/95
3. Dr. C. Papadias 5/95 to 9/97
4. Dr. K. Giridhar 2/97 – 2/98
5. Dr. D. Gesbert 1/97 – 3/99
6. Dr. H. Boelcskei 1/99 – 10/01
7. Dr. E. Lindskog 1/00 – 10/00
8. Dr. C. Oestges 10/00 – 11/02
9. Dr. R. H. Mahadevappa 2/03 – 8/03
10. Dr. Jan Hanson 7/03 – 7/04
11. Dr. D Tujokovic 4/04 – 3/05
12. Dr. H Artes 5/04 – 4/05
13. Dr. F. Lee (4/04 – 03/06)
14. Dr. N Chiritu (02/05 – 03/06)
15. Dr. H El-Sallabi (10/05 – 10/06)

Long Term Visitors

1. V. U. Reddy (Prof., Indian Inst. of Science), 3/94 – 6/95
2. F. Vanpoucke (Ph.D. student, University of Delft), 5/94 – 3/95
3. S. Ratnavel (Ph.D. student, University of London), 6/95 – 3/96
4. R. Stuezele (Ph.D. student, University of Munich), 1/96 – 9/96
5. M. Cederval (Ph.D. student, University of Uppsala), 1/96 – 12/96
6. V. U. Reddy (Prof., Indian Institute of Science), 3/96 – 6/97
7. A. Van der Veen (Prof., University of Delft), 5/96 – 7/96
8. E. Lindskog (Ph.D. student, University of Uppsala), 9/96 – 3/97
9. J. Heo (Scientist, L.G. Semicon), 9/96 – 8/97
10. J. Sorelius (Ph.D. student, University of Uppsala), 1/97 – 1/98
11. K. Kuwihara (Scientist, Hitachi Inc.), 9/97 – 10/98
12. T. Maeda (Scientist, Toshiba Inc.), 1/98 – 7/99

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13. J. Kammen (Ph.D. student, University of Kaiserslauter), 7/98 – 10/00
14. S. K. Kim (Scientist, SK Telecom), 6/99 – 6/00
15. H. Kuchibhotla (Prof., India Institute of Science), 5/00 – 7/01
16. P. Stoica (Prof., University of Uppsala), 10/00 – 12/00
17. H. Saran (Prof., India Institute of Technology), 10/00 – 9/02
18. O. Ata (Prof., Al-Quds University, Jerusalem), 6/00 – 6/01
19. D. Baum (Ph.D. student, University of Munich), 8/00 – 8/01
20. S. Kurian (Scientist, GOI), 9/98 – 9/00
21. T. Strohmer (Prof., University of California, Davis), 6/01 – 12/01
22. P. Stoica (Prof., University of Uppsala), 10/01 – 12/01
23. A. Gorokhov (Senior Scientist, Philips Research), 11/01 – 01/02
24. B. Clerckx (Ph.D. student, Catholic University of Leuven), 01/03 – 8/03
25. A. Gorokhov (Scientist, Philips Research), 10/02 –
26. K. Yu (Ph.D. student, KTH, Sweden), 02/03 – 8/03
27. K Wong (Prof., HK University), 01 / 04 – 01/05
28. D Shin (Prof., Korea Military Academy), 03/05 – 09/05
29. CK Kim 3/05 – 2/06
30. M Maruyama (Kobe Steel), 09/05 – 10/06
31. M.K. Song (Prof., Wonkwang University, Korea), 2/06 – 2/07