

Personal information form for Fellow members of EAMBES

Personal Info



Name: Dan Adam

Gender: Male

Date and place of birth: 13.10.1943

Present affiliations and functions:

Professor of Biomedical Engineering and Dean,
Department of Biomedical Engineering
Technion – Israel Institute of Technology
Haifa 32000, Israel

Presents e-mail address: dan@bm.technion.ac.il

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Short CV

1. M.Sc. (1973): Technion – Israel Institute of Technology.
Ph.D. (1977): Technion – Israel Institute of Technology
2. Different professional affiliations with applicable periods
 - Faculty of Electrical Engineering, Technion, Haifa - 1974-1977
 - Department of Biomedical and Electrical Engineering, Technion, Haifa – 1977-1978
 - Tufts University Medical School, New England Medical Center, Boston – 1979-1980
 - Harvard-MIT Division of Health Science and Technology, Whitaker College, MIT – 1980 – 1983
 - Department of Biomedical and Electrical Engineering, Technion, Haifa – 1983- 2001
 - Department of Biomedical Engineering, Technion, Haifa – 2001 - present
3. Major activities at the national and international level
 - Chair, Academic Division, the European Alliance for Medical and Biological Engineering and Science (EAMBES) (2007-2008).
 - Council member, the European Alliance for Medical and Biological Engineering and Science (EAMBES) (2003-2010).
 - Member, Educational task force, the European Alliance for Medical and Biological Engineering and Science (EAMBES) (2003-2009).
 - Chair, Educational Committee, the International Federation for Medical and Biological Engineering (IFMBE) (2003-2006).
 - Member (elected, at large) of Administrative Committee, IEEE Engineering in Medicine and Biology Society, (1999-2002).
 - Member of the Board of Directors of the International Conference of Computers in Cardiology (elected, 1990-1999).
 - Associate Editor and member of the Editorial Board – the IEEE Transactions on Biomedical Engineering.
 - Associate Editor and member of the Editorial Board – Pattern Analysis and Applications (1998-2000).
 - Associate Editor and member of the Editorial Board – the IEEE Book Series in BME published by the IEEE Press and sponsored by the IEEE EMBS (1999-2001).
4. Major scientific interests: Ultrasound processing – design of multi-frequency phased array probes for the development of multi-frequency (spectral) imaging; ultrasound RF processing (Blind Deconvolution) for increased resolution; Echo ultrasound Strain imaging, including Layer-Specific 2D Strain measurements as a diagnostic tool of myocardial pathologies; Ultrasound guided thermotherapy/surgery; Development of new applications for ultrasound Contrast Agents: Myocardial Perfusion estimation and flow within plaques, Treatment / apoptosis of cancerous tissue by localized heating.

5. Journal publications (full articles) and total citations
 - Original papers in journals, with referees - 73
 - Chapters in professional books – 16
 - U.S. Patents - 6
 - U.S. Provisional Patents – 5
 - Refereed Papers in Conference Proceedings – 62
 - Participation in Organizing Conferences – 20
 - Active Participation in International Congresses - 58

6. When applicable, maximal 4 references to papers you find most important and relevant
 - Pomeranz, B., Macaulay, R.J.B., Caudill, M.A., Kutz, I., Adam, D., Gordon, D., Barger, A.C., Shannon, D.C., Cohen, R.J. and Bensen, H.: Assessment of autonomic function in man by heart rate spectral analysis. *Am. J. Physiol.* 248(1):151-153, 1985.

 - Adam, D., Sapunar, M. and Burla, E.: On the relationship between encapsulated ultrasound contrast agent and pressure. *Ultrasound in Med. & Biol.*, Vol. 31, (5), pp. 673–686, 2005.

 - Duvshani-Eshet, M., Adam, D. and Machluf, M.: The effects of albumin-coated microbubbles in DNA delivery mediated by therapeutic ultrasound. *Journal of Controlled Release*, Vol.112 (2), pp. 156-166, 2006.

 - Rappaport, D., Adam, D., Lysyansky, P. and Reisner, S.: Assessment of myocardial regional strain and strain rate by tissue tracking in B-mode echocardiograms. *Ultrasound in Med. & Biol.*, Vol. 32 (8), pp. 1181-1192, 2006.

Recognitions:

Please indicate honorary recognitions, prizes, fellowships etc.

- 1993: Lee Silver Friedman Award in Biomedical Engineering
- 1990: Henry Gutwirth Fund for the Promotion of Research Award
- 1990-1992: W.D. Irving and Adele Rosenberg Family Academic Lectureship in Biomedical Engineering.
- 1982: Whitaker Health Sciences Fund Award
- 1981: Johnson and Johnson Fellowship
- 1980: American Heart Association Grant-in-Aid Award

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