

Jacob Thomas V.

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Academic Qualifications

Degree	Year	Specialization	Institute/ University	Project/Thesis
B.E	1987	Electronics Engineering	NIT, Surat	Microprocessor based component tester
M. Tech	1993	Biomedical Engineering	I.I.T Madras	Ion sensitive field effect device for glucose estimation
Ph.D.	2005	Biomedical Engineering	I.I.T Madras	Analysis of Foot Pressure Parameters for Varying Foot Sole Properties in Diabetic Neuropathy

Work Experience

Teaching Experience

Administrative Experience

Sponsored Projects

National Conference/ Winter School

Professional bodies

Membership

Subjects Handled

Medical Imaging Technology, Biosensors & Transducers,
Biomechanics, Therapeutic equipment, Biomechanics,

Electronics Engineer, IHRDE, Calicut. 1988- 1991

Assistant Professor, IHRD Colleges. 1993-2006.

Professor, IHRD Colleges, 2006- 07

Principal, IHRD, 2004 onwards

Principal Co-ordinator; Digital Medical Imaging Lab; (AICTE sponsored)

Organizing Secretary, BECON 97, National Conference on Advances in Biomedical Engineering-1997, Cochin.

Co-ordinator, ISTE Sponsored Winter School 1999.

Co-ordinaor, CSIR sponsored Training Programme 2000.

Academic co-ordinator IHRD- FDP

IEEE, BMESI, ISTE, BMSI, Member of board of studies Calicut, MG universities

Publications :

International journal papers

1. V. Jacob Thomas, K. Mothiram Patil, S. Radhakrishnan, V.B. Narayanamurthy and R. Parivalavan (2003) The role of skin hardness, thickness and sensory loss on standing foot power in the development of plantar ulcers in patients with diabetes mellitus, *International Journal of Lower Extremity Wounds* , 2 (3), 132—139.
2. V. Jacob Thomas, K. Mothiram Patil and S. Radhakrishnan (2004) Three dimensional stress analysis for the mechanics of plantar ulcers in diabetic neuropathy, *Medical and Biological Engineering and Computing*, 42, 230-235
3. V. Jacob Thomas, G. Charanya, K. Mothiram Patil, , V.B. Narayanamurthy, R. Parivalavan and K.Visvanath (2004) Standing foot pressure image analysis for variation on foot sole soft tissue properties and levels of diabetic neuropathy *Innovation and Technology in Biology and Medicine*. ITBM-RBM, 25, 23-33.
4. V. Jacob Thomas, K. Mothiram Patil, S.Radhakrishnan, V. B. Narayanamurthy, R. Parivalavan (2005). "Analysis of Walking Foot Pressure Images For Different Levels of Foot Sole Hardness,

Thickness And Sensory Loss in Diabetic Neuropathy”, *Medical & Biology Engineering & Computing* 42, 456-460

5. V. Jacob Thomas, K. Mothiram Patil, S.Radhakrishnan. (2005) “Finite Element Stress Analysis on Therapeutic Footwear For Prevention of Diabetic Foot Ulcer”, *Journal of Theoretical Medicine* (Communicated)

6. V. Jacob Thomas, K. Mothiram Patil, G. Charanya, V.B. Narayanamurthy, and R. Parivalavan (2005) “Analysis of Walking foot pressure images for different levels of foot sole hardness, thickness and sensory loss in diabetic neuropathy” *Diabetic Research and Clinical Practice*, 12, 331-334

24 papers in International / National conferences.

International Conferences (Listed Few)

1. V. Jacob Thomas, K.M. Patil, and S. Radhakrishnan (2001) “Three dimensional stress analysis for the mechanics of plantar ulcers in diabetic neuropathy”. *Proceedings of the International Conference on Biomedical Engineering*; Bangalore, India, Dec. 21 - 24, 2001; 117-120 (won second best paper award).
2. V. Jacob Thomas, K.M. Patil, S.Radhakrishnan,V. Balasubramanian, V.B Narayanamurthy and R. Parivalavan (2003) : “Does Increase In Hardness And Reduced Foot Sole Soft Tissue Thickness Cause Plantar Ulcers In Diabetic Neuropathy? A Computer Simulated Analysis”, *International conference on wound management*, CLRI, Chennai, India. Feb. 22-23, 2003, 47.
3. V. Jacob Thomas, K. M. Patil, S. Radhakrishnan, V.B.Narayanamurthy and R. Parivalavan (2003) “Diabetic Feet At Risk Of Plantar Ulcers: A New Method Of Analysis Of Standing Foot Pressure Images With Changes In Foot Sole Properties” *American Society of Biomechanics Annual Conference*, University of Toledo, Toledo, USA, Sept. 25-27, 2003
4. V. Jacob Thomas, K. M. Patil, S. Radhakrishnan, V.B.Narayanamurthy and R. Parivalavan, (2003) “Diabetic Feet at Risk of Plantar Ulcers: A New Method of Analysis of Walking Foot Pressure Images with Changes in Foot Sole Properties, *Proceedings of IEEE Asia-Pacific Regional Conference, TENCON 2003 Bangalore*, Oct 14-18, 2003., Vol. 4, pp 1320-24.
5. V. Jacob Thomas, K.M. Patil, and S. Radhakrishnan (2004). The Effect of Therapeutic Footwear on Diabetic Foot Models - A Finite Element Stress Analysis, *International conference on Modelling and Simulation*, “MS 2004”, IASTED, California, USA, March 1-3, 2004.
6. V. Jacob Thomas, K. M. Patil, S. Radhakrishnan, V.B. Narayanamurthy and R. Parivalavan (2004) “Analysis of Foot Pressure Images For Different Levels of Foot Sole Sensory Loss and Thickness in Diabetes”. *Proceedings of International Conference on medical pro International Conference on Medical Diagnostic Techniques and Procedures*, , IIT, Madras, India. April. 1-3, 2004, pp 27-30
7. V. Jacob Thomas and K. M. Patil, (2004) “Mechanics of Plantar Ulcers in Diabetic Neuropathy and its Prevention”. *Proceedings of International Conference on medical pro International Conference on Medical Diagnostic Techniques and Procedures*, IIT, Madras, India. April. 1-3, 2004, pp 86-91.
8. V.B. Narayanamurthy, R. Parivalavan, K. M. Patil and V. Jacob Thomas (2004) “Determination of Diabetic foot at risk – looking beyond Semmes Weinstein monofilaments”, *Proceedings of International Conference on medical pro International Conference on Medical Diagnostic Techniques and Procedures*, IIT, Madras, India. April. 1-3, 2004, pp. 98-101.
9. V. Jacob Thomas, K.M. Patil, and S. Radhakrishnan (2005) “A non linear FE Analysis of 3-D foot models with varying foot sole hardness”. *Proceedings of the International Conference on Biomedical Engineering*; Singapore, Dec. 6- 8, 2005; 17-21.
10. V. Jacob Thomas, K.M. Patil, and S. Radhakrishnan (2007) “A comparative study of linear and non linear FE Analysis of 3-D foot models with varying foot sole hardness”. *Proceedings of the International Conference on Biomedical Engineering*; Manipal, India, Oct . 4 - 6, 2007; 117-122.