CURRICULUM VITAE

Personal data

Dr. A. Hepzibah Christinal
Professor
Department of Mathematics
Karunya Institute of Technology and Sciences
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Education

Ph.D (Mathematics)- Computational Algebraic Topology and Digital Images

University De Sevilla, Sevilla, Spain.	2012

M.Phil (Mathematics)- Algebraic Topology and Finite State Automata

Madras Christian College, Madras University, Chennai, India.	1996

M.Sc (Mathematics)

Madras Christian College, Madras University, Chennai, India.	1995

B.Sc (Mathematics)

Womens' Christian College, Madras University, Chennai, India.	1993

Research focuses/Title of dissertation

Focuses: Membrane Computing, Image Processing, Algebraic Topology

Ph.D Guidance	M.Sc/M.Tech Project guided
Ongoing-4	M.Sc - 1

Teaching

Since 2017	Professor, Department of Mathematics, Karunya University, Coimbatore-114
2012 – 2017	Associate Professor, Department of Mathematics, Karunya University, Coimbatore-114
1997 – 2017	Assistant Professor, Department of Mathematics, Karunya University, Coimbatore-114

Journal Publications (Selected), Scopus-31, SCI-5, h-index - 9

1. Díaz-Pernil, Daniel, Hepzibah A. Christinal, and Miguel A. Gutiérrez-Naranjo. "Solving the 3-COL problem by using tissue P systems without environment and proteins on cells." Information Sciences 430 (2018): 240-246. **IF 5.524.**

2. Subathra, M. S. P., S. Easter Selvan, T. Aruldoss Albert Victoire, A. Hepzibah Christinal, and Umberto Amato. "A hybrid with cross-entropy method and sequential quadratic programming to solve economic load dispatch problem." IEEE Systems Journal 9, no. 3 (2014): 1031-1044. **IF: 3.931. Cited 102 times.**

3. Chandy, D. Abraham, A. Hepzibah Christinal, Alwyn John Theodore, and S. Easter Selvan. "Neighbourhood search feature selection method for content-based mammogram retrieval." Medical & biological engineering & computing 55, no. 3 (2017): 493-505.**IF 2.602.**

4. Alex, Deepthy Mary, A. Hepzibah Christinal, D. Abraham Chandy, Arvinder Singh, and M. Pushkaran. "Speckle noise suppression in 2D ultrasound kidney images using local pattern based topological derivative." Pattern Recognition Letters 131 (2020): 49-55. **IF 2.81**

5. Christinal, Hepzibah A., Daniel Díaz-Pernil, and Pedro Real. "Region-based segmentation of 2D and 3D images with tissue-like P systems." Pattern Recognition Letters 32, no. 16 (2011): 2206-2212. **IF 2.602**

Books published

1. Basic Engineering Mathematics,   A. Hepzhiba christinal , R.Selvamani, K.Porselvi, **H.S.I Publication**, Mumbai, ISBN-818822315.

Awards and Honors: Best Research paper Award 2014, Best Examinar Award 2014, Distinguish Alumni Award 2014. Received KSTG seed money-2020(RS.9,000), Editorial Board member, Topological image analysis and recognition, 2020

Resource person:	**Membership**: IMS
Paper presentation: International-5, National-3	Editorial board: **1**
Key note speaker in conference/FDP: 8	Reviewer: 4
Guest lecture delivered: 3	