LIST OF PAPERS BASED ON THESIS

Journal Publications

1. V.K. Jagannadh, **G. Gopakumar**, Gorthi R.K Sai Subrahmanyam, S.S. Gorthi. "Microfluidic microscopy-assisted label-free approach for cancer screening: automated microfluidic cytology for cancer screening", ***Medical & Biological Engineering & Computing***, **55**:711, 2017. DOI: 10.1007/s11517-016-1549-y (Publisher : **Springer**, Impact Factor : 1.916)

2. **G. Gopakumar**, V.K. Jagannadh, S.S. Gorthi, Gorthi R.K Sai Subrahmanyam. "Framework for morphometric classification of cells in imaging flow cytometry", ***Journal of Microscopy***, **261**:307–319, 2016. DOI: 10.1111/jmi.12335 (Publisher : **Wiley**, Impact Factor : 2.136)

3. **G. Gopakumar**, K. Haribabu, Deepak Mishra, S.S. Gorthi, Gorthi R.K Sai Subrahmanyam. "Cytopathological image analysis using deep learning networks in microfluidic microscopy", ***Journal of the Optical Society of America A***, **34(1)**:111–121, 2017. DOI: 10.1364/JOSAA.34.000111 (Publisher : **OSA**, Impact Factor : 1.457)

4. **G. Gopakumar**, M. Swetha, S.S. Gorthi, Gorthi R.K Sai Subrahmanyam. "CNN based malaria diagnosis from focus-stack of blood smear images acquired using custom-built slide scanner", ***Journal of Biophotonics***, 2017. DOI: jbio.201700003 (Publisher : **Wiley**, Impact Factor : 4.328)

Conference Publications

1. **G. Gopakumar**, G.R.K.S. Subrahmanyam, S.S. Gorthi. “Morphology based classification of leukaemia cell-lines: K562 and MOLT in a microfluidics based imaging flow cytometer". Ninth Indian conference on computer vision, graphics and image processing (***ICVGIP'14***), pp. 34:1–34:7, **ACM** 2014.

2. **G. Gopakumar**, M. Swetha, S.S. Gorthi, G.R.K.S. Subrahmanyam. “Automatic Detection of Malaria Infected RBCs from a Focus Stack of Bright Field Microscope Slide Images". Tenth Indian conference on computer vision, graphics and image processing (***ICVGIP'16***), pp.16:1–16:7, **ACM** 2016.

3. K. S. Kalmady, S. K. Adithya, **G. Gopakumar**, Gorthi R.K. Sai Subrahmanyam, S.S. Gorthi. “Improved transfer learning through shallow network embedding for classification of Leukemia cells", Ninth International Conference on Advances in Pattern Recognition (***ICAPR'17***), **IEEE** 2017 (Accepted)