

Department of Biomedical Instrumentation Engineering

Book Chapters by Faculty 2015-2021

S. No.	Name of the Author	Title of Chapter Published	Name of the Book, Publisher	Volume/ Issue/pp./ Year	ISBN
1.	Dr. R.Vanithamani Dr. Judith Justin	Classification of Stages of Thyroid Nodules in Ultrasound Images using Transfer Learning Methods	Lecture Notes on Networks and Systems (LNNS) - Book Series	Vol. 300, pp. 241-253, 2021	978-3-030-84760-9
2.	Pavithra Suchindran Dr. R.Vanithamani Dr. Judith Justin	Chapter 5: Breast Cancer Detection Using Random Forest Classifier	Handbook of Research on Deep Learning Based Image Analysis Under Constrained and Unconstrained Environments & IGI Global	pp. 85-98, 2021	978-1-7998-6690-9
3.	D. Pavithra Dr. R.Vanithamani Dr. Judith Justin	Chapter 19: Computer-Aided Diagnosis of Knee Osteoarthritis from Radiographic Images Using Random Forest Classifier	Handbook of Research on Engineering, Business, and Healthcare Applications of Data Science and Analytics & IGI Global	pp.384-400, 2021	978-1-7998-3053-5
4.	Dr. Judith Justin Dr. R.Vanithamani	Chapter 9: Speech Enhancement Using Neuro-Fuzzy Classifier	Handbook of Research on Automated Feature Engineering and Advanced Applications in Data Science & IGI Global	pp.164-181, 2020	978-1-7998-6659-6
5.	V. Sangeetha Dr. Judith Justin A. Mahalakshmi	Video based silent speech recognition	Lecture Notes on Data Engineering and Communications Technologies book series -Springer	pp. 269-277, 2019	978-3-030-24643-3
6.	A. Mahalakshmi Dr. R.Vanithamani	RFID based patient record management information system using LabVIEW	Lecture Notes on Data Engineering and Communications Technologies book series -Springer	pp. 303-311, 2019	978-3-030-24643-3
7.	J. Revathi J. Anitha	Automatic Diagnosis of Myocardial infarction with Left Bundle Branch Block	Communications in Computer and Information Science book series (CCIS)-Springer	Vol. 1036, pp. 235-244, 2019	978-981-13-9184-2

8.	K. Uma J. Revathi J. Anitha	Telemetry system for early detection of hyperbilirubinemia in neonates	Telemedicine Technologies- Academic Press	pp. 71-87, 2019	978-0-12-816948-3
9.	D. Diana J. Revathi K. Uma A. Ramya J. Anitha	A Novel Method for Detecting Bone Contours in Hand Radiographic Images	Advances in Intelligent Systems and Computing book series (AISC)- Springer	Vol. 766, pp 293-299, 2019	978-981-13-9683-0
10.	D. Hepsiba Dr. Judith Justin	Role of Deep Neural Network in speech enhancement: A review	Communications in Computer and Information Science book series-Springer	pp.103-112, 2019	978-981-13-9129-3
11.	A. HariPriya Dr. R.Vanithamani	Atherosclerotic plaque detection using Intravascular Ultrasound (IVUS) images	Lecture Notes in Computational Vision and Biomechanics book series-Springer	pp.1417-1425, 2019	978-3-030-00665-5
12.	K. V.Archana Dr. R.Vanithamani	Diagnosis of coronary artery diseases and carotid atherosclerosis using Intravascular Ultrasound images	Communications in Computer and Information Science book series-Springer	pp.281- 288, 2019	978-981-13-9129-3
13.	C. R. Renee Dr. R.Vanithamani R. Dhivya	Dental caries detection using NIR imaging technique	IET Digital Library	pp. 1-4, 2018	978-1-78561-786-7
14.	R. Dhivya Dr. Judith Justin	Wavelet thresholding techniques in speech signal denoising	IET Digital Library	pp. 1-5, 2018	978-1-78561-786-7
15.	Dr. R.Vanithamani R. Dhivya	Thyroid nodule classification in medical Ultrasound images	Advances in Intelligent Systems and Computing book series – Springer	pp. 509-514, 2017	978-3-319-60618-7
16.	Dr. R.Vanithamani R. Renee Christina	Exudates in detection and classification of Diabetic Retinopathy	Advances in Intelligent Systems and Computing book series – Springer	pp.252-261, 2017	978-3-319-60618-7
17.	R. Dhivya Dr. Judith Justin	Assessment of speech denoising using a perceptual measure-PESQ	Advances in Intelligent Systems and Computing book series – Springer	pp.270-278, 2017	978-3-319-60618-7