

R& D for UG: Publications

K.S. INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
2017-18 (July 2017 to Dec 2017)

Books: 1

1. Rohit Thanki, Komal Borisagar, **Surekha Borra**, "Advanced Compression and Watermarking Techniques for Speech Signals", Springer Briefs in Speech Technology, Springer – [ISBN 978-3-319-69069-8, 978-3-319-69068-1] [ISSN: 2191-737X] [DOI : 10.1007/978-3-319-69069-8]

Edited Books: 1

1. Nilanjan Dey, Amira. S. Ashour, **Surekha Borra**, "Classification in BioApps- Automation of Decision Making" Lecture Notes in Computational Vision and Biomechanics (LNCVB Series), Series Volume 26, Springer – [ISSN: 2212-9391] [ISBN 978-3-319-65980-0 ISBN 978-3-319-65981-7 (eBook)]

Book Chapters: 5

1. Rohit Thanki, **Surekha Borra**, Nilanjan Dey, Amira S. Ashour, "Introduction to Medical Imaging and Objective Quality Assessment Techniques, Studies in LNCVB Series, Springer, Chapter 1, pp.3-32, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
2. Pragati Pukkela, **Surekha Borra**, "Machine Learning based Plant Leaf Disease Detection and Severity Assessment Techniques: State-of-the-Art, Studies in LNCVB Series, Springer, Chapter 8, pp. 199-226, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
3. Ambika Annavarapu, **Surekha Borra**, Padmavathi Kora, "ECG signal Dimensionality Reduction based Atrial Fibrillation Detection", Studies in LNCVB Series, Springer, Chapter 14, pp.383-406, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
4. Padmavathi Kora, Ambika Annavarapu, **Surekha Borra**, "ECG based Myocardial Infarction Detection using Hybrid Classification Techniques", Studies in LNCVB Series, Springer, Chapter 3, pp.57-78, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
5. Vidyasree P, Madhavi Gudavalli, Viswanadha Raju S, **Surekha Borra**, "A BioApplication for Accident Victims' Identification using Biometrics", Studies in LNCVB Series, Springer, Chapter 15, pp.407-447, [EBook ISBN 978-3-319-65981-7] Scopus Indexed

International Journals: 7

1. Madhura.R, **Shanthi Prasad.M.J.**, "A Technical survey of Important Research works in VLSI Test scan architecture", International Journal of Emerging Technology and Advanced Engineering (IJETA), Vol. 7, No. 10, Oct 2017,ISSN 2250-2459
2. Madhura R, Ravi Shankar J, **Dr. Shanthi Prasad.M.J**, Comprehensive Study of Popular VLSI Test Scan Architecture", International Journal of ENgineering Research & Technology (IJERT), Vol.6, Issue 11, Nov. 2017, ISSN: 2278-0181.
3. **Surekha Borra**, Lakshmi H.R., Nilanjan Dey, Amira S. Ashour, Fuqian Shi, "Digital Image Watermarking Tools: State-of-the-Art", Frontiers in Artificial Intelligence and Applications, Vol.296, pp.450-459, 2017 [ISSN: 09226389][DOI: 10.3233/978-1-61499-785-6-450] [Scopus Indexed]
4. Rohit Thanki, **Surekha Borra**, Vedavyas Dwivedi, Komal Borisagar, "A RONI based Visible Watermarking Approach for Medical Image Authentication", Journal of Medical Systems, Springer, Vol41:143, [DOI: 10.1007/s10916-017-0795-3] [Scopus Indexed]
5. Rohit Thanki, **Surekha Borra**, Vedavyas Dwivedi, Komal Borisagar, "A Steganographic Approach for Secure Communication of Medical Images based on DCT-SVD and Compressed Sensing (CS) Theory", Imaging Science Journal, Taylor & Francis, Vol. 65, Issue 8, pp.457-467. DOI: 10.1080/13682199.2017.1367129] [Scopus Indexed]

6. Rohit Thanki, **Surekha Borra**, Vedvyas Dwivedi, Komal Borisagar, "An Efficient Medical Image Watermarking Scheme based on FDCuT – DCT", Engineering Science and Technology, an International Journal, Elsevier, Vol.20, No.4, pp. 1366-1379, 2017. [DOI: 10.1016/j.jestch.2017.06.001 2215-0986] [Scopus Indexed]
7. **Aruna Rao BP**, Ravi Shankar J, Dr. M. J. Shanthi Prasad, "Overview of Differential ended I/O Logic Families, International Journal of Engineering Research and Technology, ISSN: 2278-0181, Vol. 6, No. 11, pp. 1-6, Nov. 2017.

International Conference Publications: 3

1. Srinivas Halvi, Nayina Ramapur, K.B.Raja, **Shanthi Prasad.M.J.**, "Fusion Based Face Recognition system using 1D Transform Domains" 7th International conference on Advances in Computing & Communications, ICACC-2017m August 2017, pages 1-8
2. **Lakshmi H R**, Chiranthan C V, M Krishna Prasad, Shreyas R Y, "Digital MCB", 2017 IEEE International Conference on Smart Technology for Smart Nation, Reva University, Bangalore, August 17-19 2017, pp.1416-1420.
3. Prathima.BA, PN Sudha, Suresh PM, Electronic Sensors for Micron Resolution Dimension Measurement", IEEE International Conference on Electrical, Electronics ,Communication, Computer Technologies and Optimization Techniques), 15-16 December 2017, GSSSIETW, Mysuru.

National Conference Publications: 2

1. Chaithra B , Kavya M, **Jayasudha B S K**, "A Survey on Monitoring stress levels of an individual by different techniques" Evolution 2017, 24th-25th September 2017, Instrumentation Society of India, RNS Institute of Technology, Bengaluru.
2. Megha Venkatesh, Alaka, **Jayasudha B S K**, "A Survey on WBAN (Wireless Body area Network) and its applications", Evolution 2017, 24th-25th September 2017, Instrumentation Society of India, RNS Institute of Technology, Bengaluru.

2017-18 (Dec.2017 to June 2018)

Books: 2

1. Rohit Thanki, **Surekha Borra**, "**Medical Imaging and its Security in Telemedicine Applications**", SpringerBriefs in Applied Sciences and Technology, Springer – [ISBN 978-3-319-93311-5] [ISSN: 2191-530X] Scopus Indexed
2. Rohit Thanki, Komal Borisagar, **Surekha Borra**, "Advanced Compression and Watermarking Techniques for Speech Signals", Springer Briefs in Speech Technology, Springer – [ISBN 978-3-319-69069-8, 978-3-319-69068-1] [ISSN: 2191-737X] [DOI : 10.1007/978-3-319-69069-8]

Edited Books: 2

1. Nilanjan Dey, Amira. S. Ashour, **Surekha Borra**, "Classification in BioApps- Automation of Decision Making" Lecture Notes in Computational Vision and Biomechanics (LNCVB Series), Series Volume 26, Springer – [ISSN: 2212-9391] [ISBN 978-3-319-65980-0 ISBN 978-3-319-65981-7 (eBook)]
2. Nilanjan Dey Amira Ashour Simon James Fong, **Surekha Borra**, " U-Healthcare Monitoring Systems, 1st Edition, Volume 1: Design and Applications, Elsevier, ISBN: 9780128153703

Book Chapters: 9

1. Nabanita Das, **Surekha Borra**, Nilanjan Dey and Samarjeet Borah, " Social Networking in Web Based Movie Recommendation System" , Social Networks Science: Design, Implementation, Security, and Challenges, Chapter 2, Springer International Publishing pp. 2018, E-ISBN: 978-3-319-90059-9 .
2. Rohit Thanki, Surekha Borra , Komal Borisagar, "A Hybrid Watermarking Technique for Copyright Protection of Medical Signals in Teleradiology", Handbook of Research on Information Security in Biomedical Signal Processing, Chapter 17, pp.320-349, 2018, [ISBN: 9781522551522].

3. Rohit Thanki, **Surekha Borra** , Komal Borisagar, "A Hybrid Watermarking Technique for Copyright Protection of Medical Signals in Teleradiology", Handbook of Research on Information Security in Biomedical Signal Processing, Chapter 17, pp.320-349, 2018, [ISBN: 9781522551522].
4. Rohit Thanki, **Surekha Borra**, Nilanjan Dey, Amira S. Ashour, " Medical Imaging and Objective Quality Assessment Techniques: An Introduction", Studies in LNCVB Series, Springer, Chapter 1, pp.3-32, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
5. Pragati Pukkela, **Surekha Borra**, "Machine Learning based Plant Leaf Disease Detection and Severity Assessment Techniques: State-of-the-Art, Studies in LNCVB Series, Springer, Chapter 8, pp. 199-226, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
6. Ambika Annavarapu, **Surekha Borra** , Padmavathi Kora, "ECG signal Dimensionality Reduction based Atrial Fibrillation Detection", Studies in LNCVB Series, Springer, Chapter 14, pp.383-406, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
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8. Vidyasree P, Madhavi Gudavalli, Viswanadha Raju S, **Surekha Borra**, "A BioApplication for Accident Victims' Identification using Biometrics", Studies in LNCVB Series, Springer, Chapter 15, pp.407-447, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
9. Madhavi Gudavalli, Viswanadha Raju S, Vidya sree P, Surekha Borra , Secured Optimal Cost Approach for Bimodal Deep Face Recognition in IoT and Its Applications , Handbook of Research on Big Data Management and the Internet of Things for Improved Health Systems, IGI Global, USA, Chapter 10, pp.163-175. [DOI: 10.4018/978-1-5225-5222-2.ch010]

International Journals: 20

1. Sneha.P.K, Rabichith, Sri Nithya S, **Surekha Borra**, " Crowd Density Estimation Using Image Processing: A Survey", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number, pp. 6855-6864, 2018.
2. N. Rekha and F. Jabeen, " Novel Technique for Comprehensive Noise Identification and Cancellation in GSM Signal", International Journal of Electrical and Computer Engineering (IJECE), Vol. 8, No. 2, pp. 1222-1229, April 2018
3. Rohit Thanki, **Surekha Borra**, "A Color image steganography in hybrid FRT–DWT domain", Journal of Information Security and Applications, vol. 40,pp. 92–102, 2018.[ISSN: 2214-2134], [DOI: 10.1016/j.jisa.2018.03.004] -Scopus Indexed
4. **Surekha Borra**, Rohit Thanki, Nilanjan Dey, Komal Borisagar, "Secure Transmission and Integrity Verification of Color Radiological Images using Fast Discrete Curvelet Transform and Compressive Sensing", *Smart Health*, <https://doi.org/10.1016/j.smhl.2018.02.001>, Received date: 25 November 2017, Revised date: 15 January 2018, Accepted date: 23 February 2018, Available Online on 25 February 2018.
5. Rohit Thanki, Vedavyas Dwivedi, Komal Borisagar, **Surekha Borra**, "A Watermarking Algorithm for Multiple Watermarks Protection Using RDWT-SVD and Compressive Sensing", **Informatica: An International Journal of Computing and Informatics**, Vol. **41**, No.4, Dec 2017 ,pp. 479–493.[Scopus Indexed]
6. **B Sudarshan et al**, "Power theft Detection in Agriculture and Field Protection-A Literature Survey", IJLEMR, ISSN: 2455-4847, Vol. 3, Issue 3, March 2018, pp. 01-11.
7. **B Sudarshan et al**, "High protection Voice Identification based Bank Locker Security System with Live image Authentication-A Literature Survey", IJCR, ISSN: 2320-2882, Vol. 6, Issue 2, April 2018, pp. 1147-1159.
8. **B Sudarshan et al**, "Power theft detection in agriculture and field protection", IJCR, ISSN: 2320-2882, Vol. 06, Issue 02, April 2018, pp. 67-72.
9. **B Sudarshan et al**, "High protection Voice Identification based Bank Locker Security System with Live image Authentication", IJRASET, ISSN: 2321-9653, Vol. 6, Issue 6, June 2018, pp. 401-406.

10. Neha Sridhar, H.S.Nischitha, Harshitha BL, Neha C Shekhar, B.R.Santhosh Kumar, "Proposed Method of Ophthalmic Perimeter for Vision Field Testing" , International Journal of Creative Research Thoughts, Volume.6, Issue 2, Page No pp.1486-1491, April-2018, [ISSN: 2320-2882]
11. Hrushikesh J R,Balraj B,Chandan R,Pavan Kumar G, **Sangeetha V**, "Leap Motion Controlled Wheel Chair", International Journal of Latest Technology in Engineering ,Management & Applied Science(IJLTEMAS),volume 2, Issue 4, April 2018,pp. ISSN 2278-2540.
12. Anup Ramesh Wadavi,Ashwin S,Chiranthan C.V,M Krishna Prasad, **Sangeetha V**, " Body Area Network (BAN) Based Security Card System:A Survey", International Journal of Recent Engineering Research and Development (IJRERD),volume 3,Issue 04,April 2018,PP,63-68,ISSN:2445-8761
13. Bidhan Raj Thapa, Delna Manuel, Shailja Shekhar, Vinay Kumar S, **Prathima B A**, Obstacle Avoiding Robot Using Arm Controller-A Survey, International Journal of Latest Engineering and Management Research (IJLEMR), Volume 03, Issue 04, April 2018, pp. 68-75, ISSN: 2455-4847.
14. Ritu P Simha, Praveen Prasanna G, Tejas D S, Pavan B V, **Prathima B A**, Smart Tool Kit for the Visually Impaired - A Survey, International Journal of Latest Engineering and Management Research (IJLEMR) ,Volume 03, Issue 04, April 2018, pp. 52-57, ISSN: 2455-4847
15. Rohit K, Santhosh KP, Jagadish V, Bose Naidu, **Pragathi P**, "Fuel Pump Dispensing System", International Journal of Latest Engineering and Management Research, Vol. 3, Issue 3, March 2018, pp-1-6, [ISSN: 2455-4847]
16. Arjula Harshitha Reddy, Chethan K P, Harshitha M, Lakshanya B, **Aruna Rao**, "A survey on CAN based Vehicle Monitoring System", International Journal of Creative Research Thoughts, **Volume.6, Issue 2, Page No pp.526-534, April-2018**, [ISSN: 2320-2882]
17. Aruna Rao B P, Ravi shankar J, Dr. Shanthi Prasad M J, "A technical Survey of Single-ended Input/Output(I/o) Logic Families & Key Performance Parameters", (IJETAE)- Accepted.
18. Madhura R, Ravi shankar J, Dr. Shanthi Prasad M J, "Popular Case Studies of Various VLSI Test Scan Architecture", IJSRT, ISSN: 2456-2165, Vol. 3, Issue 3, March 2018.
19. Sampath Kumar S et al., "Automatic Detection of Humps and Porholes on Roads and Notification to Aid Drivers", KJLEMR, ISSN: 2455-4847, Vol. 3, Issue 5, May 2018, pp. 57-61
20. Lakshmi H R, et al., "Digital Water marking Tools and overview" , Special issue on Cyber Security Issues and Solutions, IJCS, ISSN : 1744-1773-Accepted with revisions.

International Conference Publications: 5

1. **Kranti Budigi**, Surekha Borra, "Real-time Facial Recognition using Deep Learning and Local Binary Patterns", **Springer International Conference on Ethical Hacking- (eHaCoN-2018)**, Institute of Engineering & Management, Kolkata, West Bengal, India, April 6th-7th, 2018.
2. **Jayasudha B S K, P.N. Sudha** "PCG Acquisition and analysis for detection of cardiac failures at early stages" presented at International Conference on BioEngineering on Health and Environment ICBHE'2018, 8th-10th January 2018, Sathyabama Institute of science and Technology, Chennai., ISBN:978-93-83409-40-2.
3. Rekha, N., and Fathima Jabeen. "Noise Detection and Elimination by Using Analytical Approach." In *Computer Science On-line Conference*, pp. 37-45. Springer, Cham, 2018.
4. Yashaswini S, Arpitha S R, Banda Tejavardhan, Prasad Pujari, **Sahana Salagare**, "A Smart Catamaran Cruise", 18th May 2018, International Conference on Recent trends in Technology 2K18 in collaboration with Reputed Journal IJCA & IJERT-ICRTT 2K18, at SDMIT, Ujire, Dharamsthala, Karnataka, INDIA
5. Prathima B A et al., "Electronic Sensors for Micron Resolution Dimension Measurement", ICEECCOT-2017, Dec. 15, 2017, GSSSIETW, Mysore, India..