FACULTY PROFILE

Dr.V. SHERLIN SOLOMI

Associate Professor,

Department of Electronics & Communication Engineering,

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Experience: Teaching – 7.6years

Research – 5 years

Research area: Text-to-Speech synthesis, Speech signal processing, Machine learning, NLP, Image processing.

Publications

Journal Publications

1. W. Jino Hans, V. SherlinSolomi, N. Venkateswaran, “On-Road Deer Detection for Advanced Driver Assistance using Convolutional Neural Network”, International Journal of Advanced Computer Science and Applications, Vol. 11, No. 4, April 2020, pp. 754-761.

2. V. SherlinSolomi, P. Vijayalakshmi, T. Nagarajan, "Exploiting Acoustic Similarities between Tamil and Indian English in the Development of an HMM-based Bilingual Synthesizer", IET Signal Processing, Vol. 11, No. 3, May 2017, pp. 332 - 340

3. G. Anushiya Rachel, V. SherlinSolomi, K. Naveen kumar, P. Vijayalakshmi and T. Nagarajan, "A low footprint context-independent HMM-based speech synthesizer for Tamil" in the International Journal of Speech Technology, Vol. 18, No.3 pp. 405 - 418

Conference Presentations

1. SherlinSolomi, V. Srujana Reddy, C. Naga Tripura, S. “Smart Shopping Using Embedded Based Autocart and Android App”, Lecture Notes in Networks and Systems, 2022, pp. 704 – 712

2. V. SherlinSolomi, D. Stela, Sandhiya D, Tanu, “Implementation of Hub and Spoke Topology in VPN using EIGRP” in the Sixth International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), 25-27 March 2021.

3. V. SherlinSolomi, K. Bharath, M. Suresh, K .Sai Krishna, “IOT based safe driving for an Intelligent Transport System”, in the Proceedings of 2nd International conference on Information, Embedded & Communication systems, ICIECS - 2019, St. Joseph College of Engineering, Chennai, 22nd March,2019.

4. S. JohananJoysingh, M. Nanmalar, G. Anushiya Rachel, V. SherlinSolomi, P. Vijayalakshmi, T. Nagarajan, "Development of a Speech-Enabled Interactive Enquiry System in Tamil for Agriculture", Tamil Internet Conference, Toronto, Canada, Aug. 2017.

5. V. SherlinSolomi, G. Anushiya Rachel, P. Vijayalakshmi, T. Nagarajan, "Phone Mapping-based Mixed-language synthesizer for Tamil and Indian English", 15th Tamil Internet Conference, Dindigul, Sep. 2016. (Best Paper Award)

6. V. SherlinSolomi, M.S. Saranya, G. Anushiya Rachel, P. Vijayalakshmi, T. Nagarajan, "Performance Comparison of KLD and PoG Metrics for Finding the Acoustic Similarity Between Phonemes for the Development of a Polyglot Synthesizer", IEEE TENCON, Bangkok, Thailand, 2014, pp. 1 - 4.

7. G. Anushiya Rachel, S. Lilly Christina, V. SherlinSolomi, B. Ramani, P. Vijayalakshmi, T. Nagarajan, "Development and Analysis of Various Phone-Sized Unit-Based Speech Synthesizers", COCOSDA, Gurgaon, India, 2013, pp. 1 - 5.

8. V. SherlinSolomi, S. Lilly Christina, G. Anushiya Rachel, B. Ramani, P. Vijayalakshmi, T. Nagarajan, "Analysis on Acoustic Similarities between Tamil and English Phonemes using Product of Likelihood-Gaussians for an HMM-Based Mixed-Language Synthesizer", COCOSDA, Gurgaon, India, 2013, pp. 1 - 5.

9. B. Ramani, S. Lilly Christina, G. Anushiya Rachel, V. SherlinSolomi, Mahesh Kumar Nandwana, AnushaPrakash, Aswin Shanmugam, Raghava Krishnan, S. Kishore Prahalad,

K.Samudravijaya, P. Vijayalakshmi, T. Nagarajan and Hema Murthy, "A Common Attribute based Unified HTS Framework for Speech Synthesis in Indian Languages", ISCA - SSW8, Barcelona, Spain , 2013, pp. 291 - 296.

10. B. Ramani, V. SherlinSolomi, G. Anushiya Rachel, S. Lilly Christina, P. Vijayalakshmi, T. Nagarajan, Hema A Murthy, "Development and Evaluation of Unit Selection and HMM-based Speech Synthesis for Tamil", NCC, Delhi, India, 2013, pp. 1 - 5.

11. M. AnbuSwarnaPriyanka, V. SherlinSolomi, P. Vijayalakshmi, T. Nagarajan, "Multiresolution Feature Extraction (MRFE) based speech recognition system", International Conference on Recent Trends in Information Technology (ICRTIT), Madras Institute of Technology campus of Anna University, Chennai, 25-27 July 2013, pp. 152-156.

12. M. AnbuSwarnaPriyanka, V. SherlinSolomi, P. Vijayalakshmi, T. Nagarajan, "Speech recognition system developed using Multiresolution Feature Extraction (MRFE) for sparse data" in Proc. of National Conf. on Signal Processing, Communication and VLSI Design (NCSCV'13), 2013, pp. 302 - 306.

Awards & Accolades

1. Received Best Teacher Award for the academic year 2021-22
2. Received 3 Best paper Awards
3. University Second Rank holder in PG (M.E Applied Electronics – Anna University)