

## BIBLIOGRAPHY

- [1] Manoj Deka, Aniruddha Deka, "Design Challenges of Spoken Dialogue System in Bodo Language," *International Journal of Research in Electronics and Computer Engineering*, vol. 2, issue 3, pp. 64-67, July-Sep 2014.
- [2] M. Prabhaker , "Tamil market: A spoken dialog system for rural India", *ACM CHI Conference*, 2006
- [3] Utpal Bhattacharjee, "Recognition of the tonal words of BODO language", *International Journal of Recent Technology and Engineering*", vol-1, issue-6, pp. 78, 2013.
- [4] Biswajit Brahma, Anup Kr. Barman, Prof. Shikhar Kr. Sarma, Bhatima Boro, "Corpus Building of Literary Lesser Rich Language- Bodo: Insights and Challenges", In Proc. *24th International Conference on Computational Linguistics*, 2012
- [5] AGMARKNET–Ministry of Agriculture, Government of India, Agricultural Marketing Information Network website: <http://agmarknet.nic.in>, 2016
- [6] Muhammad Asif, Naveed and Mumtaz A. Anwar , "Agricultural Information Needs of Rural Pakistani Farmers ," *Malaysian Journal of Library & Information Science*, vol. 18, no. 3, pp.13-23, 2013
- [7] Nitin Bhagachand Bachhav," Information Needs of the Rural Farmers: A Study from Maharashtra, India: A Survey," *Library Philosophy and Practice (LPP)*, 2012.
- [8] T.S. Anurag, Shambhu Kumar, "Interactive Information Dissemination System: Architecture for Disseminating Information to Farmers," *A Newsletter of the International Federation for Information Processing Working Group 9.4 and Centre for Electronic Governance Indian Institute of Management*, vol. 22, no. 2, 2012.
- [9] Mobile Phones based Agricultural Information Systems,<https://mahtabrasheed.wordpress.com/2012/11/07/mobile-phones-based-agricultural-information-systems>, September 2016

- [10] SAPA MOBILE, <https://g4aw.spaceoffice.nl/en/projects/international/data-and-services/mobile/sapa-mobile> , April 2016
- [11] TCS mKrishi, Delivering services to farmers via mobile technology, <http://www.inclusivebusinesshub.org/project/project-profile-mkrishi-mobile-technology-for-farmers-in-india>, July 2017
- [12] Saravanan Raj, "e-Agriculture Prototype for Knowledge Facilitation among Tribal Farmers of North-East India: Innovations, Impact and Lessons," *the Journal of Agricultural Education and Extension*, 2012.
- [13] Kimmo Karhu, "Spoken dialogue systems," *Helsinki University of Technology*, 2001.
- [14] Suket Arora, Kamaljeet Batra, Sarabjit Singh, Dialogue System: A Brief Review. *CoRR*, *abs/1306.4134*, 2013.
- [15] Jason D. William, "Spoken dialogue systems: Challenges, and opportunities for research," *ASRU*. 2009.
- [16] Michael F. McTear, "Spoken Dialogue Technology: Enabling the Conversational User Interface," *ACM Computing Surveys*, Vol. 34, issue 1, pp. 90-169, 2002.
- [17] R. Meena, "Data-driven methods for spoken dialogue systems: Applications in language understanding, turn-taking, error detection, and knowledge acquisition," *Ph.D. dissertation, KTH - Royal Institute of Technology, School of Computer Science and Communication, Department of Speech, Music and Hearing*, 2016.
- [18] Gustav Öquist, "Formative Evaluation of Speech Components in Dialog Systems," 2002.
- [19] Cheongjae Lee, Sangkeun Jung, Kyungduk Kim, Donghyeon Lee, and Gary Geunbae Lee, "*Recent Approaches to Dialog Management for Spoken Dialog Systems*," Pohang, Republic of Korea, 2010.
- [20] Robin Persson, "Constructing a Prototype Spoken Dialogue System for World Wide Named Places Providing Spoken Dialogue Control of an In-Vehicle Infotainment System," Göteborg, Sweden, 2012
- [21] Victor Zue, Member, Stephanie Seneff, James R. Glass, Joseph Polifroni, Christine Pao, Timothy J. Hazen, and Lee Hetherington (2000), "*JUPITER: A Telephone-Based Conversational Interface for Weather*

*Information,*” IEEE transactions on speech and audio processing, vol. 8, no. 1, 2000.

- [22] Stephen Sutton, Ronald Cole, Jacques de Villiers, Johan Schalkwyk, Pieter Vermeulen, Mike Macon, Yonghong Yan, Ed Kaiser, Brian Rundle, Khaldoun Shobaki, Paul Hosom, Alex Kain, Johan Wouters, Dominic Massaro, Michael Cohen, “Universal Speech Tools: the CSLU toolkit,” 2002.
- [23] George Ferguson and James F. Allen, "TRIPS: The Rochester Interactive Planning System,” In *Proc. Sixteenth National Conference on Artificial Intelligence (AAAI-99)*, pp. 18–22, 1999.
- [24] Aniruddha Deka, Dr. Manoj Kumar Deka,”Speaker Dependent Word Boundary Detection in Bodo and Bodo Speech using Pause and ZCR,” In *Proc. I3CS’15*, pp. 160-164, 2015.
- [25] Aniruddha Deka, Dr. Manoj Kumar Deka, “Analysis of Pitch and Intensity of Continuous Bodo Speech for Word Boundary Detection,” In *Proc. CSCIT-2015*, Nanded, Maharashtra, pp. 136-139, 2015
- [26] Stephen A. Zahorian, and Hongbing Hu, "A spectral/temporal method for robust fundamental frequency tracking," *J. Acoust. Soc. Am.* 123(6), 2008.
- [27] Mandal, Das & Gupta, Bhaskar & Kumar Datta, Asoke., “Word boundary detection based on suprasegmental features: A case study on Bangla speech,” *International Journal of Speech Technology.* vol 9. pp.17-28, 2007.
- [28] KACUR J, ROZINAJ G, “Word Boundary Detection in Stationary Noises Using Cepstral Matrices,” *Journal of Electrical Engineering*, vol. 54, 2003
- [29] G.V. Ramana Rao, B. Yegnanarayana, “Word boundary hypothesization in Hindi speech” ,*Computer Speech & Language*, vol 5, issue 4, pp.379-392,1991.
- [30] Anurag Jain, Nupur Prakash, S.S. Agrawal, “Performance evaluation of Word Boundary Detection for Hindi speech database,” *13th Intl. Conference of Oriental chapter of the international Committee for the Cordination and Standardisation of Speech Databases and Assesment techniques (O-COCOSDA)*,” 2010.
- [31] Rajendran, S. and Yegnanarayana, B., “Word boundary hypothesization for continuous speech in Hindi based on F0 patterns,” 1996.

- [32] Anu Priya Sharma ,”Implementation of ZCR and STE techniques for the detection of the voiced and unvoiced signals in Continuous Punjabi Speech,”*International Journal of Emerging Trends in Science and Technology*, vol. 03 issue 06, 2016.
- [33] Sanded Kanneganti, Dr. Robert Yantorno,” Design of Automatic Word Boundary detection system using counting rule,” Ph.D dissertation.2011.
- [34] Poonam Sharma<sup>1</sup> and Abha Kiran Rajpoot, “Automatic Identification of silence, unvoiced and voiced chunks in speech,” *Journal of Computer Science & Information Technology (CS & IT)*, vol 3, issue5, pp 87-96, 2013.
- [35] Rabiner, L.R. and Schafer, R. W., "Digital Processing of Speech Signals," Englewood Clifts, N. J. Prentice Hill, 1978.
- [36] Jyotismita, Talukdar & Pran Hori, Talukdar & Ganesh Chandra, Deka. “Word boundary detection of BODO and RABHA language using energy and pitch control analysis”. In *Proc. ICCICIT* ,pp. 1-6, 2012
- [37] Dipankar Kalita , Aniruddha Deka, “ Automatic Speech Recognition of Bodo Digits using HTK,” *International Journal of Research & Technology*, vol 3, issue 2, 2015.
- [38] Aniruddha Deka, Dr. Manoj Kumar Deka , “Connected Digit Recognition System in Bodo Language,” *Journal of Emerging Technologies and Innovative Research*, 2015.
- [39] Madhav Pandya, Data Driven Feature Extraction and Parameterization for Speech Recognition by, Dept. of CSE, IIT Kanpur, 2005.
- [40] Mr.Yoghesh Dawande , Dr. Mukta Dhopeswarkar," Analysis of different feature extraction techniques for speaker recognition system: a review,” *International Journal of Advanced Technology & Engineering Research (IJATER)*, 2017.
- [41] Ms. Vimala C., V. Radha , “Speaker Independent Isolated Speech Recognition System for Tamil Language using HMM,” *Procedia Engineering*, vol 30, pp. 1097-1102, 2012.
- [42] Sunitha .K.V.N & Kalyani.N,” Syllable analysis to build a dictation system in Telugu language,” *International Journal of Computer Science and Information Security*. vol 30. no 30, 2009.

- [43] Krishnan, V.R.V. Jayakumar A, Anto P B, “Speech Recognition of isolated Malayalam Words Using Wavlet features and Artificial Neural Network”. *4th IEEE International Symposium on Electronic Design, Test and Applications*, vol 3, issue, 23-25 ,pp.240 – 243,2008.
- [44] Kumar, R., Singh, C., Kaushik, S., “Isolated and Connected Word Recognition for Punjabi Language using Acoustic Template Matching Technique,” *Internatonal Journal of Computer Applications*, vol-119, no. 2,2004.
- [45] N. Rajput M. Kumar and A. Verma, “A large-vocabulary continuous speech recognition system for Hindi,” *IBM Journal for Research and Development*, 2004.
- [46] Anuj Mohameda, K.N. Ramachandran Nairb, "HMM/ANN hybrid model for continuous Malayalam speech recognition,” In *Proc. International Conference on Communication Technology and System Design*, 2011.
- [47] ManashPratimSarma and Kandarpa Kumar Sarma, “Assamese Numeral Speech Recognition using Multiple Features and Cooperative LVQ – Architectures,” *International Journal of Electronics and Communication Engineering*, 2011
- [48] Hasan, M.M., Hassan, F., Islam, G.M.M., Banik, M., Kotwal, M.R.A., Rahman, S.M.M., Muhammad, G., Mohammad, N.H,” Bangla triphone hmm based word recognition,” *In Proc. IEEE APCCAS*, pp. 883–886, 2010.
- [49] Suman K. Saksamudre, P.P. Shrishrimal, R.R. Deshmukh, “A Review on Different Approaches for Speech Recognition System,” *International Journal of Computer Applications*, pp.0975 – 8887, 2015.
- [50] M K Deka, Chandan Nath,S K Sarma, P H Talukdar, “An Approach to Noise Robust Speech Recognition using LPC-Cepstral Coefficient and MLP based Artificial Neural Network with respect to Assamese and Bodo Language,” *International Symposium on Devices MEMS, Intelligent Systems & Communication (ISDMISC)*,In *Proc. International Journal of Computer Applications(IJCA)*, 2011.
- [51] Markel, J. D. and Gray Jr., A.H., "Linear Prediction of Speech,” Springer. Verlag, 1976.

- [52] Joseph W. Picone, "Signal Modeling Techniques in Speech Recognition", In *Proc. IEEE*, vol. 81, No. 9, 1993
- [53] Rabiner, L.R. and Jung, B.H., "*Fundamental of Speech Recognition*," Prentice- Hall, 1993.
- [54] Pavel Senin, "Dynamic Time Warping Algorithm Review", 2008.
- [55] Eric Fosler Lussier, "Markov Models and Hidden Markov Models- A Brief Tutorial", 1988.
- [56] Giampiero Salvi, *HTK Tutorial*, 2003
- [57] Asterisk AGI, <https://www.voip-info.org/asterisk-agi>, 2015
- [58] Asterisk open source communications, <http://www.asterisk.org/home>, 2016
- [59] Asterisk Bluetooth channel, <https://www.voip-info.org/asterisk-bluetooth-channels>, 2015
- [60] Ms. Harshada Jagtap, Prof. D.G. Gahane, "Asterisk Based IP-PBX Cost Efficient Server for Small Organization," *International Journal on Recent and Innovation Trends in Computing and Communication*, vol3, issue 2, 2015.
- [61] Mohammed A Qadeer, M J R Khan, Ale Imran, "Asterisk VoIP Private Branch Exchange," *IMPACT-2009*, IEEE, 2009.
- [62] Sonali golhar, Prof. V.S Dhamdhere, "Asterisk VoIP Private Branch Exchange," *International Journal of Advanced Research in Computer Science and Software Engineering*," vol. 5, issue 6, 2015
- [63] Andre du Toit, "Private PBX networks-Cost effective communication solutions," IEEE, 1992.
- [64] Guo Fang Mao, Alex Talevski, Elizabeth Chang, "Voice over Internet Protocol on mobile devices," In *Proc. of ICIS*, 2007.
- [65] Joyanta Basu, Milton S. Bepari, Rajib Roy, Soma Khan, " Telephony Speech Recognition System: Challenges", In *Proc. International Journal of Computer Applications® (IJCA)*, 2012.
- [66] S. Goel and M. Bhattacharya, "Speech based dialog query system over asterisk PBX server," In *Proc. 2nd International Conference on Signal Processing Signal Processing Systems (ICSPS)*, 2012.

- [67] L. R. Rabiner, "Applications of Speech Recognition in the Area of Telecommunications," In *Proc. IEEE Workshop on Automatic Speech Recognition and Understanding*, pp. 501–510, 1997.
- [68] Godambe, Tejas, "Speech Data Acquisition for Voice based Agricultural Information Retrieval," In *Proc. 39th All India DLA Conference*, June 2018.
- [69] Pranav Shriram Jawale, Prof. Preeti Rao, "Confidence Measures for Spoken Dialog Systems," M.Tech. Thesis, IITMadras, 2012.
- [70] San-Segundo, Rubén & Pellom, Bryan & M. Pardo, Jos, "Confidence Measures for Spoken Dialogue Systems," In *Proc. ICASSP'01.IEEE International Conference on Acoustics, Speech, and Signal Processing*, 2001.
- [71] Cheongjae Lee, Sangkeun Jung, Kyungduk Kim, Donghyeon Lee, and Gary Geunbae Lee, "Robust Dialog Management with N-best Hypotheses Using Dialog Examples and Agenda," *Transactions of the Association for Computational Linguistics (ACL)*, 2008.
- [72] GautamVarma Mantena, S. Rajendran, B. Rambabu, Suryakanth V. Gangashetty, B. Yegnanarayana, Kishore Prahallad,"A Speech-Based Conversation System for Accessing Agriculture Commodity Prices in Indian Languages," In *Proc. ICON-2011, 9th International Conference on Natural Language Processing*, 2011.
- [73] Gautam Varma Mantena, S. Rajendran, Suryakanth V. Gangashetty, B. Yegnanarayana, Kishore Prahallad , "Development of a Spoken Dialogue System for accessing Agricultural Information in Telugu, "In *Proc. of International. Conference on Natural Language Processing (ICON)*, Kharagpur, 2011.
- [74] Shahnawazuddin, S, Deepak Thotappa, B D Sarma, A Deka, S R M Prasanna, and R Sinha. "Low Complexity On-Line Adaptation Techniques in Context of Assamese Spoken Query System," *Journal of Signal Processing Systems*, vol. 81, issue 1, pp. 83–97, October 2015.
- [75] J. L. Gauvain and C. H. Lee, "Maximum a-posteriori estimation for multivariate gaussian mixture observations of markov chains," *IEEE Transactions on Speech and Audio Processing*, vol. 2, pp. 291–298, 1994

- [76] C. J. Leggetter and P. C. Woodland, "Maximum likelihood linear regression for speaker adaptation of continuous density hidden markov models," *Computer Speech and Language*, vol. 9, pp. 171–185, 1995
- [77] R. Kuhn, J.-C. Junqua, P. Nguyen, and N. Niedzielski, "Rapid speaker adaptation in eigenvoice space," *IEEE Transactions on Speech and Audio Processing*, vol. 8, no. 6, pp. 695–707, 2000.
- [78] M. Gales, "Cluster adaptive training of hidden markov models," *IEEE Transactions on Speech and Audio Processing*, vol. 8, no. 4, pp. 417–428, 1999.
- [79] B. Mak, T.-C. Lai, and R. Hsiao, "Improving reference speaker weighting adaptation by the use of maximum-likelihood reference speakers," In *Proc. ICASSP*, 2006.
- [80] Y. Gomez, T. Toda, H. Saruwatari, and K. Shikano, "Improving rapid unsupervised speaker adaptation based on hmm-sufficient statistics," *ICASSP*, pp. 1001–1004, 2006.
- [81] T. Cai and J. Zhu, "A novel method for rapid speaker adaptation based on support speaker weighting," In *Proc. ICASSP*, pp. 993–996, 2005.
- [82] J. Duchateau, T. Leroy, K. Demuynck, and H. V. Hamme, "Fast speaker adaptation using non-negative matrix factorization," In *Proc. ICASSP*, pp. 4269–4272, 2008.
- [83] Hazen, T.J., Glass, J.R. "A comparison of novel techniques for instantaneous speaker adaptation," In *Proc. of European Conference on Speech Communication and Technology*, pp. 2047–2050, 1997.
- [84] Woodland, P.C. "Speaker adaptation for continuous density hmms: a review," *ISCA ITRW on Adaptation Methods for Speech Recognition*, pp. 11–19, 2001.
- [85] Milner, B., & Vaseghi, S. "Bayesian channel equalization and robust features for speech recognition. Vision, Image and Signal Processing," In *IEEE Proceedings*, 143(4), 223–231, 1996.
- [86] Acero, A., Deng, L., Kristjansson, T.T., Zhang, J., "Hmm adaptation using vector Taylor series for noisy speech recognition," *INTERSPEECH*, pp. 869–872. ISCA, 2000.

- [87] He, Y., & Han, J., “Gaussian specific compensation for channel distortion in speech recognition,” *IEEE Signal Processing Letters*, 18(10), 599–602, 2011.
- [88] Zhang, X., Demuynck, K., Van Hamme, H.,” Latent variable speaker adaptation of Gaussian mixture weights and means,” In *Proc. ICASSP*, pp. 4349–4352, 2012