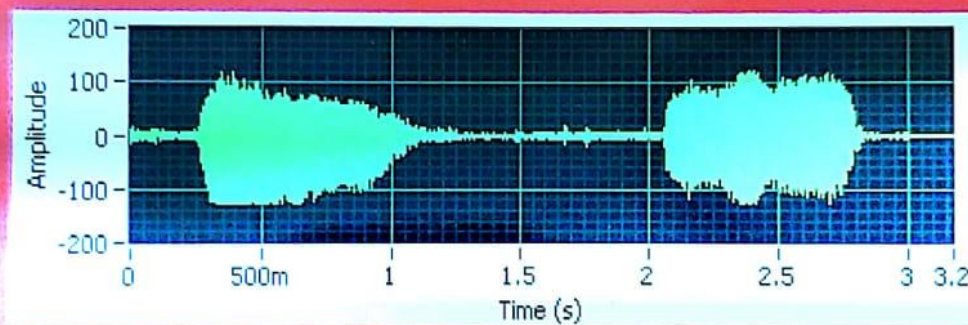
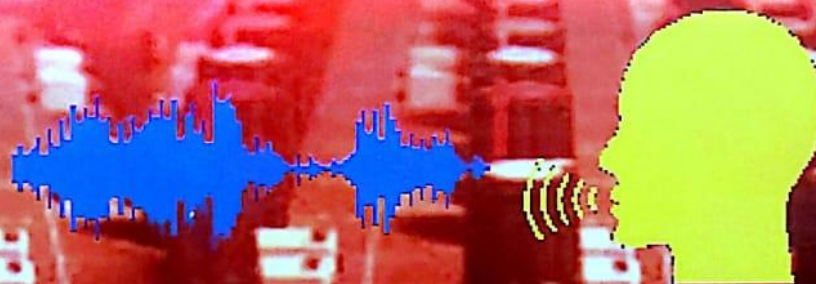


Contribution of Dr. Prof. Pran Hari Talukdar in Boro Sahitya Sabha

A DESCRIPTIVE SPECTRAL ANALYSIS OF BODO SPEECH SOUND



Dr. Pran Hari Talukdar



A DESCRIPTIVE SPECTRAL ANALYSIS OF BODO SPEECH SOUND



About the Author

Prof. Pran Hari Talukdar, who authored the book entitled "A Descriptive Spectral Analysis of Bodo Speech Sound.", did his Masters in Physics (Gauhati University) and Computer sci. & Technology (IIT, Roorkee). He did his Ph.D under the Gauhati University. Prof. Talukdar served as a lecturer of Physics in Cotton College, Guwahati, for 4(four) years, as a lecturer of Electronics & Tele-communication in Assam Engg. College, Guwahati, for 7(seven) years and as an Associate prof. & H.o.D, in the department of M.C.A, Assam Engg. College, Guwahati, for 3(three) years). He served as a Professor and H.o.D, in the department of Instrumentation & USIC, Gauhati University, for nearly, 19 years. He authored 16 books in the field of computer science, signal processing, Speech processing, Big Data Analytics, Computer Networks, Computer architecture and C & C++ programming. Thirty nine research scholars completed their Ph.D works under the supervision of Prof. Talukdar. Prof. P.H.Talukdar has more than 200 International publications to his credit. The primary research areas of Prof. Talukdar include: Computer architecture, Computer Networks, Speech Processing, Development of Language Technology, Neural Networks, Big Data Analytics and Cloud Computing.

Bodo Sahitya Sabha

A Descriptive Spectral Analysis of Bodo Speech Sound

Prof. Pran Hari Talukdar



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Speaker Recognition/Authentication using Artificial Neural Network (ANN)

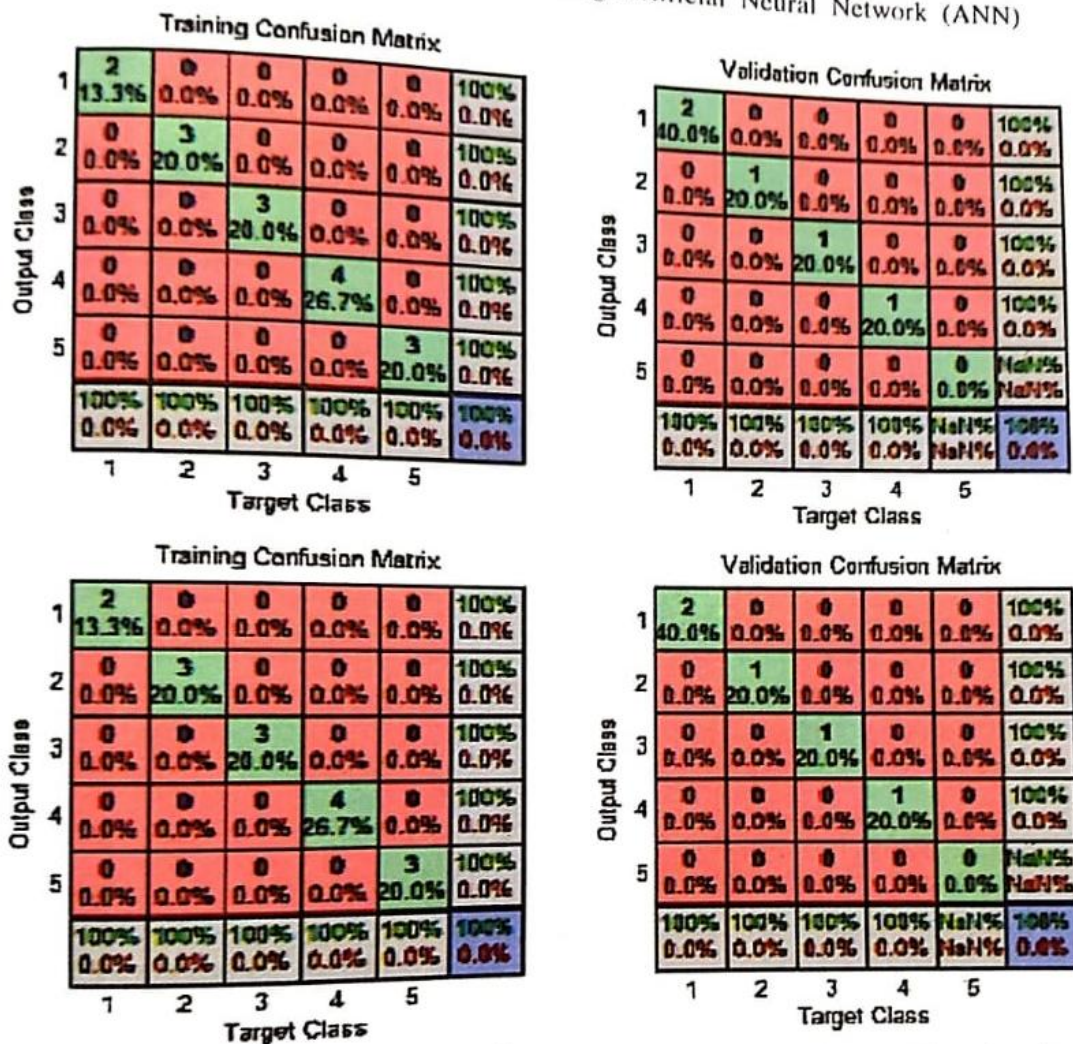
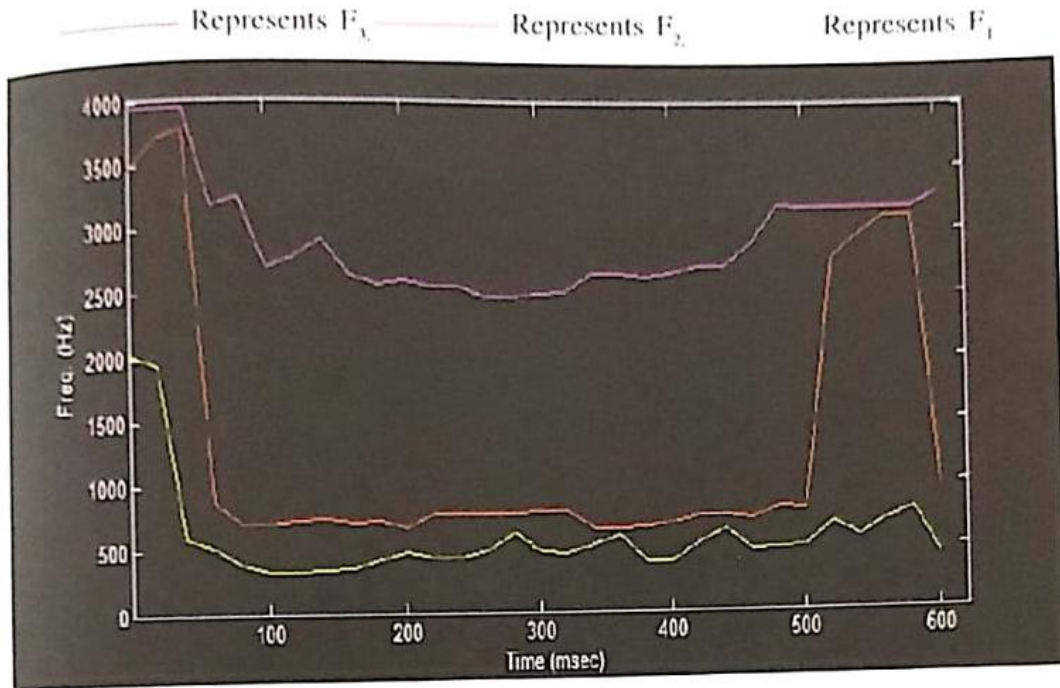


Figure (13.17) : Confusion matrix generated for 25 sample utterances keeping the hidden neuron as 80 (5 speakers X 5 repetitions each).

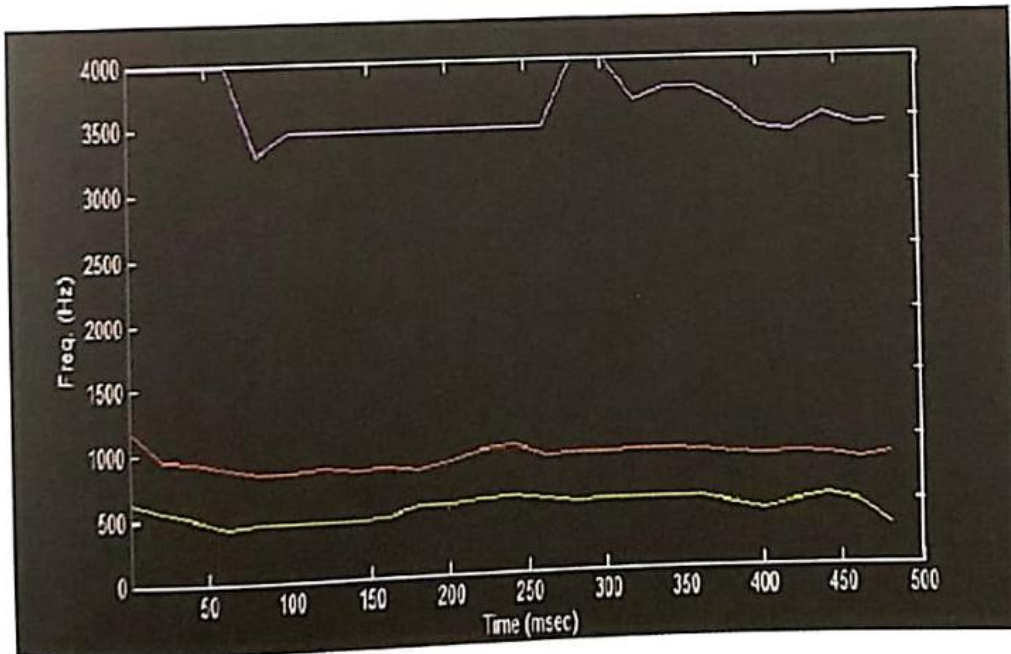
From the plots and figures, it is observed that the training set has reached the error tolerance (stopping criterion). The **training set** meets the specified goal, whereas, the **validation and train set falls** a little behind. The mean square error of the training data set was comparatively good, while the test and validation errors were higher. This could be overcome by increasing the training samples to the network. 50 (fifty) speech samples are used in the training phase.

The testing is done for each pair (i.e. cluster size and number of hidden neurons) in the resultant matrix. Finally we feed 10 speaker data to our ANN for classification for the selected Bodo word set, which is uttered 5 times individually by all of them.

Formant Analysis and Estimation of Bodo Vowels and words



Male

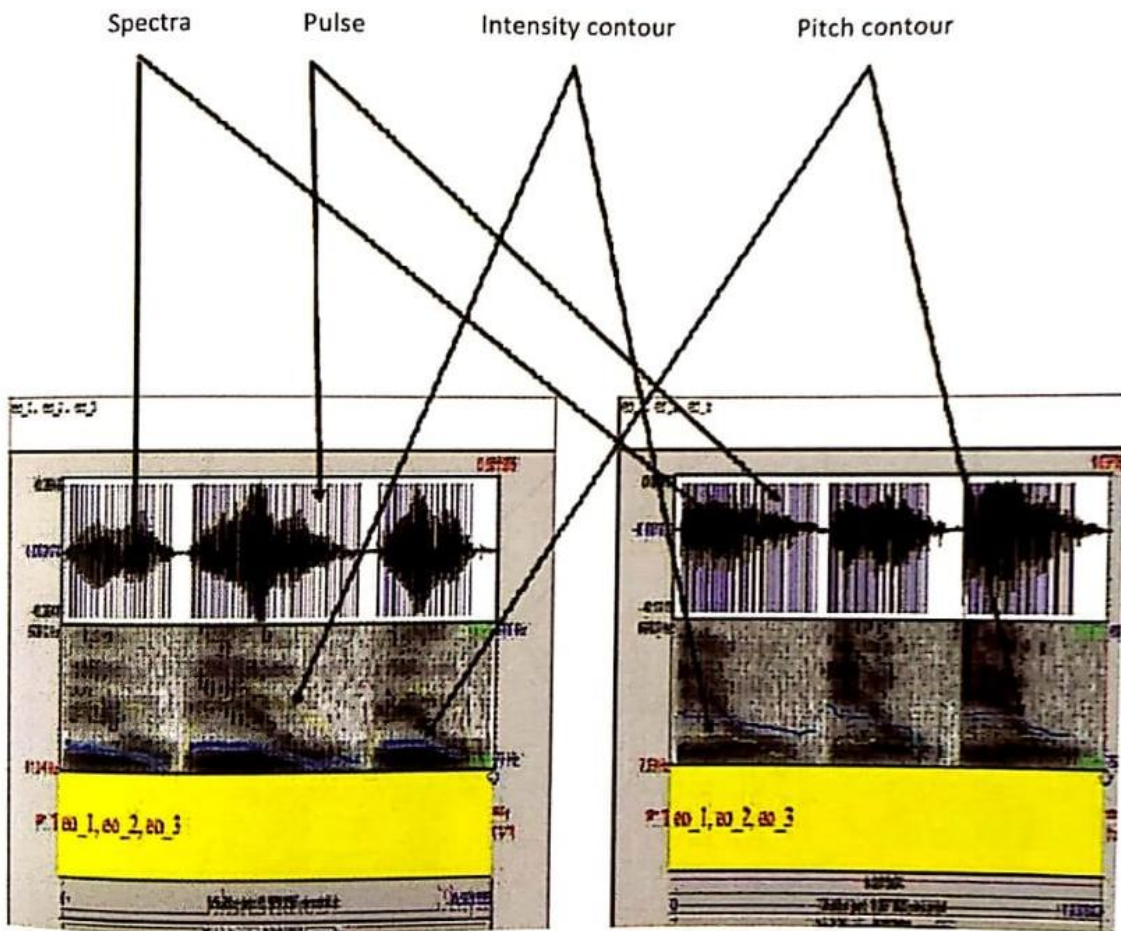


Female

Formant Frequencies of Bodo vowels /o/ for (Male) and (Female)

Spectral Analysis of Tones in Bodo Speech

- 13. eo^1 (to cleare by cutting):
- eo^2 (to plough):
- eo^3 (to fry):

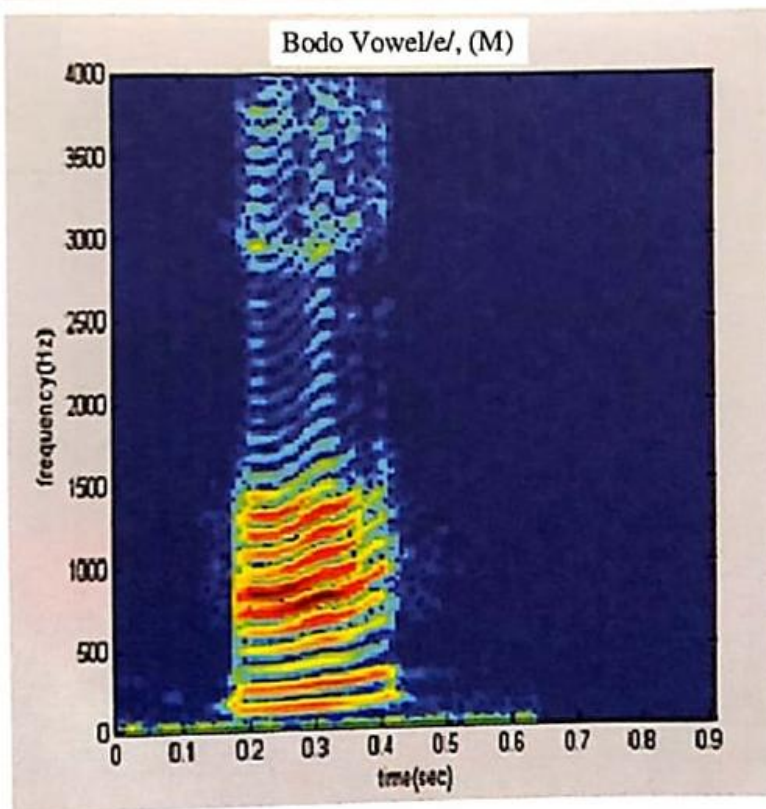
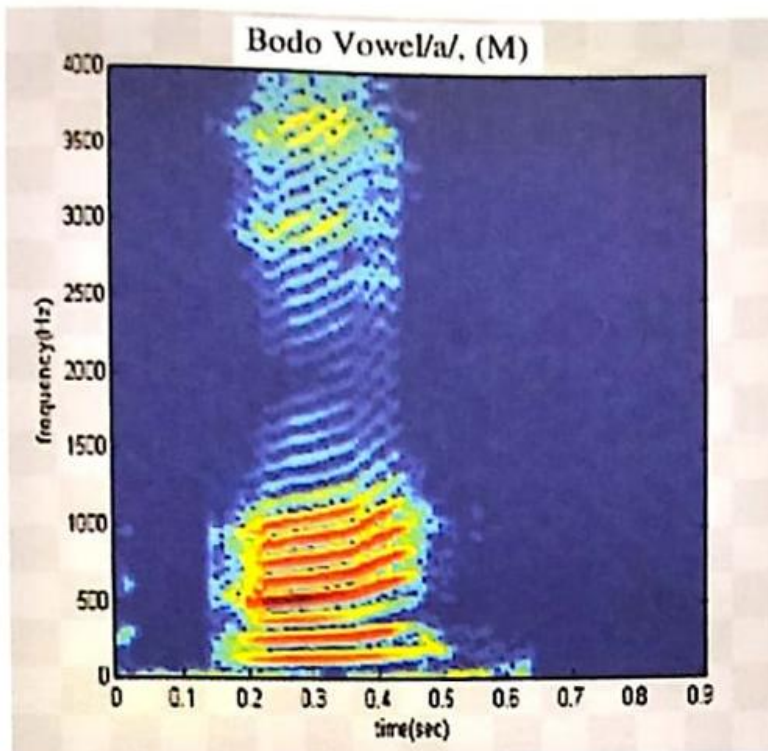


(a) Male

(b) Female

Pitch contour, Intensity contour and Spectra of eo^1 , eo^2 , eo^3 for male and Female

History of Bodos and Bodo Language



Spectrograms of Bodo Vowels (Male)

airtel বড়ো ভাষাত আন্তর্জাতিক পর্যায়ে নিয়াৰ পদক্ষেপ
NEWS LIVE
 বড়ো সাহিত্য সভাৰ অধিবেশনত প্রকল্প উন্মোচন
 বড়ো ভাষা প্রসাৰণৰ পদক্ষেপ ই-থুনলাই প্রকল্প



COMING UP **PRIME TIME** ঢোল বজাই চৰকাৰক জগোৱাৰ চেষ্টা প্রতিবাদকাৰীৰ
 05:53 বাজতিলক এক আবেগবিশ্বল সময়, অগতানুগতিক কাহিনীৰে **চকুপানীৰ পুতলা**

আমম @5 ASCOSYSৰ সৈতে হোৱা এই চুক্তিয়ে প্ৰসাৰ কৰিব
DY365
MAX



COMING UP NEXT
NO.1 RED আসতো পৰিণত নহয়।
গাঠিৰ বিষৰ শ্ৰেষ্ঠ ঔষধ Dr. Ortho
 Ayurvedic Oil & Capsules

बोड़ो साहित्य सभा - एह छिन माउत बुदाबुजिन छुति

ई-थुनलहि'ब जबियते विश्व दबबाबलै याब बड़ो भाषा



एहिलिन साधार, उवाहाटी, ७ जनवरी ।
अबकीर साहित्यिक वीदुविआउ तथा उकन-
नवन अनाइम जनजातीय भाषा विउमेल
डिजिटल बोड़ो अनाउ आधुनिक डिजिटल
साहित्य अलियाउ लिख नवकलिन निया हब ।
इहान बाबे साधु उवाहे अकष ई थुनलहि

अधीन ई लहिया । एही अकषक बोड़ो साहित्य
सभाई एह छिन नानव बाजिपार बउर
आविजयी अडिअन एहीन सहउमेलत अकषम
कबिब । एही उअमेशे नुअोलकई आदि
उवाहाटीत एअन बुदाबुजिन छुतिउ आकष
करे । छुति आकषम

● ३४ पृष्ठ

बोड़ो भाषा के संरक्षण व विस्तार की पहल एस्कोसिस व बोड़ो साहित्य सभा में करार



गुवाहाटी, 6 जनवरी (ख.सं.) । बोड़ो भाषा-साहित्य-
संस्कृति-परंपरा के संरक्षण के लिए बोड़ो साहित्य सभा ने
आज एस्कोसिस के साथ एक सहमति पत्र पर हस्ताक्षर
किया । इस अवसर पर बोड़ो साहित्य सभा के महासचिव
प्रशांत बोड़ो ने कहा कि विश्व की सात हजार भाषाओं में
से आधी लुप्त होने के कगार पर है । सामाजिक अथवा
आर्थिक शक्ति के प्रभाव से जब वक्ता कोई एक भाषा के

बदले दूसरी भाषा का इस्तमाल अधिक करने लगे तभी
संबंधित भाषा के लुप्त होने की ज्यादा संभावना होती है ।
पिछले सौ सालों में चार सौ से अधिक भाषाएं लुप्त हो चुकी
हैं । प्रत्येक तीन महीने के बाद एक और 50 से 90 प्रतिशत
भाषाएं आने वाली शताब्दी में खत्म हो जाएंगी । अर्थात्
दो-दो हफ्ते में एक भाषा खत्म होगी । अनेक
अनुसंधानकर्ताओं का कहना है कि

शेष पृष्ठ 11 पर

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