Contents

Session III: Vowel Perception	
Chairman's Review: G. Fant	•
Auditory analysis and timbre perception: R. Plomp	7
Analysis and synthesis of speech using a broad-band spectral representation: L.C.W. Pols	23
Auditory processing of steady-state vowels: E.G. Karnickaya, V.N. Mushnikov, N.A. Slepokurova and S.Ja. Zhukov	37
Two-formant models, pitch, and vowel perception: R. Carlson, G. Fant and B. Granström	5!
Perception of vowel amplitude transients: R. Carré and R. Lancia	83
Discrimination of synthesized vowels [a] and [i] with varying parameters in dog: A.V. Baru	9
Intrinsic and extrinsic factors in vowel judgments: W.A. Ainsworth	103
Vocal tract normalization as demonstrated by reaction times: A.Q. Summerfield and M.P. Haggard	119
Interrelations of vowel perception and linguistic context: K. Centmayer	14:
Perception of German and Danish vowels with special reference to the German lax vowels: E. Fischer-Jørgensen	153
Factors underlying phonemic interpretation of phonetically non-defined sounds: L.V. Bondarko and L.A. Verbitskaya	17
Session IV: Feature Detection and Auditory Segmentation:	

191

Consonant Perception

Chairman's Review: K.N. Stevens

Auditory perception of duration of speech and non-speech stimuli: H. Fujisaki, K. Nakamura and T. Imoto	197
Auditory segmentation of acoustic flow and its possible role in speech processing: L.A. Chistovich, N.A. Fyodorova, D.M. Lissenko and M.G. Zhukova	221
Scaling of pitch intervals between vowel-like sounds with constant and variable fundamental frequency: V.V. Lublinskaja and W. Mikiel	233
Auditory segmentation and the method of dichotic stimulation: T.F. Myers, M.G. Zhukova, L.A. Chistovich and V.N. Mushnikov	243
On discrimination of formant transitions by persons with severe sensorineural hearing loss: J.M. Pickett and E.M. Danaher	275
Perception of brief stimuli that resemble rapid formant transitions: D.H. Klatt and S.R. Shattuck	293
The potential role of property detectors in the perception of consonants: K.N. Stevens	303
Application in speech recognition of some data on auditory segmentation and the perception of the speech wave parameters: G.I. Tsemel	331
Cross-language study of the perception of the F_3 cue for [r] versus [1] in speech- and nonspeech-like patterns: K. Miyawaki, A.M. Liberman, O. Fujimura, W. Strange and J.J. Jenkins	339
Acoustical cues of softness in Russian syllables and their application in automatic speech recognition: M. Derkach	349
Automatic segmentation of speech into syllabic and phonemic units: application to French words and utterances: J-Y. Gresser and G. Mercier	359
Session V: Temporal Organization of Connected Speech:	
Prosody	
Chairman's Review: S.G. Nooteboom	383
Some temporal regularities of spoken Swedish: B.E.F. Lindblom	387
Consequences of articulatory effort on articulatory timing: I.H. Slis	397
On the internal, auditory representation of syllable nucleus durations: S.G. Nooteboom	413

The temporal regulation of speech: J.J. Ohala	431
On isochrony and syntax: A.W.F. Huggins	455
Auditory estimate of syllable and vowel duration in sentences: R.K. Potapova	465
Rhythmic structure types in Russian speech: L.V. Zlatoustova	477
Some experiments on the perception of prosodic features in Czech: P. Janota and J. Ondráčková	485
Some notes on the melody component of intonation as a cue in text segmentation (summary): 0.F. Krovnova	497
The inner structure of intonation contours in Russian: N.D. Svetozarova	499
On the significance of some parameters of a pitch contour: R. Haavel	511
On the question of auditory analysis of frequency parameters in sentences (summary): L.P. Blochina	521
Normalization of F_0 curves: W. Jassem	523
Analysis of speech errors under delayed auditory feedback: J. Baštecký, B. Borovičková, Vl. Maláč and O. Vinař	531
Subphonemic variations in American English: N. Umeda and C.H. Coker	539