

CONTENTS

ACADEMY OF SCIENCES OF THE ESTONIAN S.S.R.

INSTITUTE OF LANGUAGE AND LITERATURE

PI 2.1 PI 2.2	M. Karjalainen Auditory Models for Speech Processing B. H. Repp Integration and Segregation in Speech Perception	11 21	Se 23 SPEAKER-INDEPENDENT SPEECH RECOGNITION A. Pluciński The Normalization of the Speech Signal Spectrum Envelope C. Hoequist, Jr. Phonological Rule Implementation in Speech Recognition W. Barry Adaptation to Regional Accents in Automatic Speech Recognition D. H. Deterding Use of the ERB Scale in Peripheral Auditory Processing for Vowel Identification B. N. Mazur Распознавание речи произвольного диктора по кластерным эталонам	81	
Se 21 CONTROL OF ARTICULATORY EVENTS 1	41				
Se 21.1 Se 21.2 Se 21.3 Se 21.4 Se 21.5	P. J. Alfonso, S. Horiguchi Vowel-Related Lingual Articulation in /θCVC/ Syllables as a Function of Stop Contrast R. S. McGowan Some Properties of an Aeroacoustics Characterization of Phonation M. Ohala, J. J. Ohala Laboratory-Induced Speech Errors in Hindi S. A. J. Wood The History of the Classical Vowel Articulation Model: A Reply to Catford and Fischer-Jørgensen T. Pettersson, S. A. J. Wood Model Experiments on Vowel Reduction in Bulgarian				
Se 22* MODELS OF SPEECH PERCEPTION	261				
Se 22.1 Se 22.2 Se 22.3 Se 22.4 Se 22.5	S. A. Shamma The Auditory Features of Vowel and Fricative Phonemes D. Krull Evaluation of Distance Metrics Using Swedish Stop Consonants J. C. T. Ringeling, W. Eefting A Case for Global Listening Strategies R. Bannert From Prominent Syllables to a Skeleton of Meaning: A Model of Prosodically Guided Speech Recognition V. P. Bondarenko, V. R. Moor, A. N. Chabanets The Analysis of Speech Perception Mechanisms on the Models of Auditory System				
Se 24 GENERAL PROBLEMS OF PHONOLOGY 1	101				
Se 24.1 Se 24.2 Se 24.3 Se 24.4 Se 24.5	R. Delmonte The Realization of Semantic Focus and Language Modeling D. L. Everett Ternarity in Pirahã Phonology K. W. Church Three Classes of «+» Boundaries C. Stojanović The Serbo-Croatian Phonological System and Problems in Presenting It to Foreign Learners G. B. Chikoidze A Phonologic-Phonetic Component of a Dynamic Linguistic Model				
Se 25 HISTORICAL PHONETICS AND PHONOLOGY 1	119				
Se 25.1 Se 25.2 Se 25.3	V. K. Zhuravlyev Prolegomena to Diachronic Phonology A. Steponavičius On Methods of Reconstruction D. I. Edelman Articulatory Phonetics and Reconstruction Verification (Indo-Iranian Data)				

Se 25.4	G. S. Klychkov, L. G. Hertzenberg Dynamic Feature Model of Syllabic Structure: A Possible Breakthrough in Reconstruction Theory	Po 1.6	E. Künnap Researches on the Field of Synthesis of the Estonian Language	Se 29	SPEAKER RECOGNITION AND NORMALIZATION 1	230	Se 32	SYLLABLE	288
Se 26	DESCRIPTIVE PHONETICS: CONSONANTS 2	132	Po 1	ACOUSTICS OF SPEECH PRODUCED UNDER DIFFERENT CIRCUMSTANCES	188	Se 29.1	W. A. van Dommelen Speaker Recognition from Phonated vs. Whispered Vowels under Different Filtering Conditions	Se 32.1	J. J. Spa Arguments en-faveur d'un traitement non unitaire de la typologie syllabique
Se 26.1	H. E. Weiss Acoustic Characteristics of the Glottal Stop in Kayabí	Po 1.7	E. Vilkman, O. Manninen , E.-R. Lauri , T. Pukkila	Se 29.2	J. Zalewski Speaker Recognition by Means of Short Speech Segments Analysis Using Time-Varying Linear Prediction in Lattice Formulation	Se 32.2	D. Michaels Syllables and Consonants		
Se 26.2	J. Ingram, B. Rigsby Glottal Stop in Gitksan: An Acoustic Analysis		Vocal Jitter as an Indicator of Changes in Psychophysiological Arousal	Se 29.3	W. Majewski, C. Basztura, J. Jurkiewicz A Method of Automatic Speaker Recognition in Open Sets	Se 32.3	R. Noske Directional, Lexical and Postlexical Syllabification and Vowel Deletion		
Se 26.3	S. B. Voronina Affricatization of /t'/, /d'/ in the Modern Literary Pronunciation of Moscovites	Po 1.8	Z. S. Bond, T. J. Moore Speech Produced under Adverse Circumstances	Se 29.4	B. Harmegnies, A. Landercy, M. Bruyninckx An Experiment in Inter-Languages Speaker Recognition Using the SDDD Index	Se 32.4	A. Giannini On the Relationship Between Coarticulatory Effect of Lip Rounding and Syllabic Boundary in French		
Se 26.4	S. V. Kodzakov Pharyngeal Features in the Daghestan Languages	Po 1.9	P. Janota , Z. Palková The Evaluation of Misinterpretations of Speech Segments under Noise-Test Conditions	Se 29.5	J. B. Millar Quantification of a Multi-Speaker Database of Spoken Australian English	Se 32.5	V. G. Rudelyov Phonological Conception of a Syllable (Applied to the Languages with Phonic System)		
Se 26.5	R. P. Dixit In Defense of the Phonetic Adequacy of the Traditional Term «Voiced Aspirated»	Po 1.10	K. Slethei Categorical Perception and Difference Limens in Helium-Oxygen Speech	Se 30	GENERAL PROBLEMS OF PHONOLOGY 2	249	Se 33	APHASIC SPEECH	306
Se 27	METRICAL THEORY	149	Po 1.11	M. Dohalská-Zichová Analyse de la communication verbale dans différents milieux de travail – problèmes de la perception	Se 30.1	B. L. Derwing, M. L. Dow, T. M. Nearey Experimental Evidence for Phonological Units	Se 33.1	W. Ziegler, D. von Cramon VOT Production in Aphasia: Contextual and Lexical Influences	
Se 27.1	E. Strangert Major Determinants of Speech Rhythm: A Preliminary Model and Some Data	Po 1.12	B. M. Kolesnikov, L. M. Zakharov Acoustics and Perception of Speech in Various Modes of Articulation	Se 30.2	S. Grzybowski Towards the Phonological Model for Contrastive Analysis	Se 33.2	W. Ziegler, Ph. Hoole Naturally Occurring VOT Continua in Aphasic Speech: Perceptual Correlates		
Se 27.2	J. T. Jensen English Stop Allophones in Metrical Theory			Se 30.3	F. J. Weisalow Probleme der Phonemvarianten in der gegenwärtigen Phonologie	Se 33.3	A. Salasoo, R. S. Berndt Normal and Aphasic Processing of Sentence Structure and Intonation		
Se 27.3	M. Stong-Jensen Length and Syllabification in Icelandic	Se 28	NATURALNESS AND INTELLIGIBILITY OF SYNTHETIC SPEECH 1	Se 30.4	J. Wierzchowski Die Forschungen der Phonemrealisation und die bedeutungen der Wortform	Se 33.4	A. Y. Panasyuk, I. V. Panasyuk An Experimental Investigation of Speech Perception in Motor Aphasia		
Se 27.4	B. Pompino-Marschall, W. Grosser, K. Hubmayer, W. Wieden Is German Stress-Timed? A Study on Vowel Compression	Se 28.1	B. J. Malsheen, M. Amador-Hernandez , M. J. Yue, J. T. Wright Intelligibility of English, French, German, and Spanish Consonants Generated by Rule over Simulated Telephone Bandwidths	Se 30.5	A. P. Yevdoshenko The Metalanguage of Phonology	Se 34	CHILD SPEECH 2	322	
Po 1	SPEECH SYNTHESIS	164	Se 28.2	J. E. Clark, R. H. Mannell , D. Ostry Time and Frequency Resolution Constraints on Synthetic Speech Intelligibility	Se 31	HISTORICAL PHONETICS AND PHONOLOGY 2	269	Se 34.1	M. E. Loots Phoneme Discrimination and Third Language Learning
Po 1.1	A. Sovijärvi, R. Aulanko Synthesis of Logical Accentuation in Different Languages	Se 28.3	N. Bacri Perceptual Spaces and the Identification of Natural and Synthetic Sentences	Se 31.1	J.-O. Svantesson Tonogenesis in Northern Mon-Khmer	Se 34.2	B. de Boysson-Bardies, L. Sagart , P. Hallé The Influence of Target-Language on Vocalic Space in Ten-Month-Old Infants		
Po 1.2	Y. B. Karnevskaya The Linguistic Aspect of Multi-Language Speech Synthesis	Se 28.4	K. Mackie, Ph. Dermody, R. Katsch Assessing the Intelligibility and Processing Speed of Processed Speech	Se 31.2	J.-M. Hombert Phonetic Conditioning for the Development of Nasalization in Teke	Se 34.3	J. Pačesová Phonetic and Phonological Properties of Child Language		
Po 1.3	B. J. Williams, P. R. Alderson Applying the Tonic Stress Mark System to the Synthesis of British English Intonation	Se 28.5	C. Basztura Likeness Functions of the Acoustic Patterns as an Index for Objective Estimation of Speech Transmission Quality	Se 31.3	B. Bascom Tonogenesis in Northern Tepehuan	Se 34.4	Y. I. Isenina Development of Child Speech Hearing at the Onset of Speech		
Po 1.4	K. Bolla, G. Kiss The Phonetic Basis of Artificial Russian Speech, Its Generation by Computer and Its Application			Se 31.4	H. K. Werner, N. G. Schablow Über die Natur der vokalischen Alternationen in der ketischen Sprache	Se 34.5	Z. N. Japaridze , Y. A. Strelnikov , I. Y. Strelnikov On Spectral Differences in the Cry of Newborns of Different Nationalities		
Po 1.5	J. Imiołczyk, R. Ciarkowski Prosodic Aspects of Polish Word Synthesis			Se 31.5	S. Sara Pharyngeal Split in Syriac				

Se 35	RELATIONS BETWEEN VOCAL TRACT AND ACOUSTICS 1	340	Se 37.4	A. Marchal , A. Foti Caractéristiques acoustiques de la première consonne dans un groupe de deux occlusives	Se 40.4	Л. Николова Реализация согласных при сандхи (на стыке клитик и знаменательного слова) в русском и болгарском языках		
Se 35.1	H. Y. Wu, P. Badin, Y. M. Cheng, B. Guerin <i>Continuous Variation of the Vocal Tract Length in a KELLY-LOCHBAUM Type Speech Production Model</i>		Se 37.5	M. Ф. Бондаренко, А. Н. Гаврашенко Об одном подходе к вопросу фонетической идентификации группы щелевых согласных и аффрикат русского языка	Se 40.5	Ч. Балупури Артикуляционная база (АБ) русского языка в сопоставлении с АБ хинди и ее типологические особенности		
Se 35.2	G. Feng, C. Abry <i>Nasalization of French Vowels. Contribution of the Nasopharyngeal Tract and the Sinuses</i>		Se 38	HISTORICAL PHONETICS AND PHONOLOGY 3	397	Se 41	SPEECH DISORDERS 2	448
Se 35.3	R. Majid, C. Abry , L.-J. Boe , P. Perrier <i>Contribution a la classification articulatori-acoustique des voyelles: etude des macro-sensibilites a l'aide d'un modele articulatoire</i>		Se 38.1	R. S. Mahadin <i>Doublets in Arabic: Notes Towards a Diachronic Phonological Study</i>		Se 41.1	F. Mitleb <i>Generative Accounts of Misarticulations of Two Jordanian Children</i>	
Se 35.4	P. Badin, L.-J. Boe <i>Vocal Tract Nomograms: Acoustic Considerations. A Crucial Problem: Formant Convergence</i>		Se 38.2	K. V. Gorshkova <i>On Reconstructing Phonological Systems and Patterns of Their Development</i>		Se 41.2	Z. Simada , M. Koike, A. Okamoto, S. Niimi <i>Lateral Release in the Articulatory Closure of the Velar Stop Sounds [k, g]: An Acoustic Study</i>	
Se 36	METHODS OF SPEECH SIGNAL ANALYSIS 2	356	Se 38.3	V. A. Dybo <i>On the Origin of Morphonemicized Accent Systems</i>		Se 41.3	Z. Tarkowski, A. Lewandowski <i>The Articulation Disorders in Mentally Retarded Children</i>	
Se 36.1	F. J. Koopmans-van Beinum , R. P. de Saint Aulaire <i>Dynamic Determination of Acoustic Vowel Contrast</i>		Se 38.4	A. Б. Пеньковский <i>Фонетические долготы гласных в русском языке: фонологическая сущность и интерпретация связанных с ними явлений (диахронический и синхронический аспекты)</i>		Se 41.4	K. Карлеп <i>Зависимость методики обучения письму и чтению от особенностей языка</i>	
Se 36.2	M. A. Randolph, V. W. Zue <i>The Role of Syllable Structure in the Acoustic Realizations of Stops</i>		Se 39	PHONOLOGY AND MORPHOLOGY 411	411	Sy 1	INTONATION	463
Se 36.3	D. A. Seggie <i>The Use of Temporal Frequency in Speech Signal Analysis</i>		Se 39.1	T. Szende <i>Phonetic Change, Phonemic Status and Morphophonological Alternations</i>		Sy 1.1	C. Bonnot, I. Fougeron <i>Intonation et thematisation en russe moderne</i>	
Se 36.4	G. Zhao <i>A Primary Experience: The Vector Quantization Technique Is an Effective Tool for Phonetic Research</i>		Se 39.2	V. Y. Plotkin <i>The Ultimate Phonological Unit as the Smallest Morpheme Shape</i>		Sy 1.2	I. Fonagy <i>Semantic Diversity in Intonation</i>	
Se 36.5	P. F. Marteau , J. Caelen, M. T. Janot-Giorgetti <i>A Spectral Warping Model. A Study of French Nasal Vowels</i>		Se 39.3	M. V. Rusakova <i>On the Morpheme Boundary as a Criterion of Phonemic Divisibility</i>		Sy 1.3	P. Ivić <i>Properties and Functions of the Prosodic Phenomena in Languages</i>	
Se 37	SPEECH SOUND RECOGNITION 1	376	Se 39.4	L. G. Zubkova <i>Aspects of the Sound Form of the Word</i>		Sy 1.4	C. В. Кодзасов <i>Тональная эмфаза в русском языке</i>	
Se 37.1	M. Yanagida, Y. Yamashita, O. Kakusho <i>Detection and Identification of Plosive Sounds in Words</i>		Se 40	CONTRASTIVE STUDIES 1	427	Sy 1.5	O. F. Krivnova <i>Intonational Phrasing and its Role in Speech Communication</i>	
Se 37.2	M. O'Kane <i>Location and Recognition of Plosive Consonants in Continuous Speech</i>		Se 40.1	É. Földi <i>La palatalisation et la pharyngalisation en polonais dans une comparaison entre plusieurs langues</i>		Sy 1.6	T. M. Nikolayeva <i>The Intonology of the 80-es</i>	
Se 37.3	H. E. Franco , J. A. Gurlekian <i>Context Dependent Recognition of Spanish Stops</i>		Se 40.2	G. Kozma <i>Experiment in Interlingual Typological Examination of Vowels</i>		Sy 1.7	C. Sappok <i>Phrasierung: Zentrum und Peripherie der prosodischen Kontur</i>	
			Se 40.3	M. A. Георгиева <i>Оппозиция палатальность/непалатальность в русском и болгарском консонантизме</i>		Sy 1.8	N. D. Svetozarova <i>Sentence Intonation in Language and Linguistics</i>	
						Sy 1.9	I. G. Torsuyeva-Leontyeva <i>Intonation and World Concept in a Literary Text</i>	
						Sy 1.10	O. T. Yokoyama <i>Towards a Unified Framework of Russian Intonation</i>	

INDEX OF AUTHORS

Abray, G.	Se 35.2, Se 35.3	Grosser, W.	Se 27.4	McGowan, R. S.	Se 21.2	Wieden, W.	Se 27.4
Aldersön, P. R.	Po 1.3	Grzybowski, S.	Se 30.2	Michaels, D.	Se 32.2	Wierzchowski, J.	Se 30.4
Alfonso, P. J.	Se 21.1	Guerin, B.	Se 35.1	Millar, J. B.	Se 29.5	Williams, B. J.	Po 1.3
Amador-Hernandez, M.	Se 28.1	Gurlekian, J. A.	Se 37.3	Mitleb, F.	Se 41.1	Wood, S. A. J.	Se 21.4, Se 21.5
Aulanko, R.	Po 1.1	Hallé, P.	Se 34.2	Moor, V. R.	Se 22.5	Wright, J. T.	Se 28.1
Bacri, N.	Se 28.3	Harmegnies, B.	Se 29.4	Moore, T. J.	Po 1.8	Wu, H. Y.	Se 35.1
Badin, P.	Se 35.1, Se 35.4	Hertzberg, L. G.	Se 25.4	Nearey, T. M.	Se 30.1	Yamashita, Y.	Se 37.1
Balupuri, C.	Se 40.5	Hoequist, C. Jr.	Se 23.2	Niimi, S.	Se 41.2	Yanagida, M.	Se 37.1
Bannert, R.	Se 22.4	Hombert, J.-M.	Se 31.2	Nikolayeva, T. M.	Sy 1.6	Yevdoshenko, A. P.	Se 30.5
Barry, W.	Se 23.3	Hoole, Ph.	Se 33.2	Nikolova, L.	Se 40.4	Yokoyama, O. T.	Sy 1.10
Bascom, B.	Se 31.3	Horiguchi, S.	Se 21.1	Noske, R.	Se 32.3	Yue, M. J.	Se 28.1
Basztura, C.	Se 28.5, Se 29.3	Hubmayer, K.	Se 27.4	O'Kane, M.	Se 37.2	Zakharov, L. M.	Po 1.12
Berndt, R. S.	Se 33.3	Imiołczyk, J.	Po 1.5	Öfala, J. J.	Se 21.3	Zalewski, J.	Se 29.2
Boe, L.-J.	Se 35.3, Se 35.4	Ingram, J.	Se 26.2	Ohala, M.	Se 21.3	Zhao, G.	Se 36.4
Bolla, K.	Po 1.4	Isenina, Y. I.	Se 34.4	Okamoto, A.	Se 41.2	Zhuravlyev, V. K.	Se 25.1
Bond, Z. S.	Po 1.8	Ivić, P.	Sy 1.3	Ostry, D.	Se 28.2	Ziegler, W.	Se 33.1, Se 33.2
Bondarenko, M. F.	Se 37.5	Janot-Giorgetti, M. T.	Se 36.5	Pačesová, J.	Se 34.3	Zubkova, L. G.	Se 39.4
Bondarenko, V. P.	Se 22.5	Janota, P.	Po 1.9	Palková, Z.	Po 1.9	Zue, V. W.	Se 36.2
Bonnot, C.	Sy 1.1	Japaridze, Z. N.	Se 34.5	Panasyuk, A. Y.	Se 33.4		
Bruyninckx, M.	Se 29.4	Jensen, J. T.	Se 27.2	Panasyuk, I. V.	Se 33.4		
Caelen, J.	Se 36.5	Jurkiewicz, J.	Se 29.3	Penkovsky, A. B.	Se 38.4		
Chabanets, A. N.	Se 22.5	Kakusho, O.	Se 37.1	Perriér, P.	Se 35.3		
Cheng, Y. M.	Se 35.1	Karjalainen, M.	Pl 2.1	Pettersson, T.	Se 21.5		
Chikoidze, G. B.	Se 24.5	Karlep, K.	Se 41.4	Plotkin, V. Y.	Se 39.2		
Church, K. W.	Se 24.3	Karnevskaya, Y. B.	Po 1.2	Pluciński, A.	Se 23.1		
Ciarkowski, R.	Po 1.5	Katsch, R.	Se 28.4	Pompino-Marschall, B.	Se 27.4		
Clark, J. E.	Se 28.2	Kiss, G.	Po 1.4	Pukkila, T.	Po 1.7		
de Boysson-Bardies, B.	Se 34.2	Klychkov, G. S.	Se 25.4	Randolph, M. A.	Se 36.2		
de Saint Aulaire, R. P.	Se 36.1	Kodzasov, S. V.	Se 26.4, Sy 1.4	Repp, B. H.	Pl 2.2		
Delmonte, R.	Se 24.1	Koike, M.	Se 41.2	Rigsby, B.	Se 26.2		
Dermody, Ph.	Se 28.4	Kolesnikov, B. M.	Po 1.12	Ringeling, J. C. T.	Se 22.3		
Derwing, B. L.	Se 30.1	Koopmans-van Beinum, F. J.	Se 36.1	Rudelyov, V. G.	Se 32.5		
Deterding, D. H.	Se 23.4	Kozma, G.	Se 40.2	Rusakova, M. V.	Se 39.3		
Dixit, R. P.	Se 26.5	Krivnova, O. F.	Sy 1.5	Sagart, L.	Se 34.2		
Dohalská-Zichová, M.	Po 1.11	Krull, D.	Se 22.2	Salasoo, A.	Se 33.3		
Dow, M. L.	Se 30.1	Künnap, E.	Po 1.6	Sappok, C.	Sy 1.7		
Dybo, V. A.	Se 38.3	Landercy, A.	Se 29.4	Sara, S.	Se 31.5		
Edelman, D. I.	Se 25.3	Lauri, E.-R.	Po 1.7	Schablo, N. G.	Se 31.4		
Eefting, W.	Se 22.3	Lewandowski, A.	Se 41.3	Seggie, D. A.	Se 36.3		
Everett, D. L.	Se 24.2	Loots, M. E.	Se 34.1	Shamma, S. A.	Se 22.1		
Feng, G.	Se 35.2	Mackie, K.	Se 28.4	Simada, Z.	Se 41.2		
Fonagy, I.	Sy 1.2	Mahadin, R. S.	Se 38.1	Slethel, K.	Po 1.10		
Foti, A.	Se 37.4	Majewski, W.	Se 29.3	Sovijärvi, A.	Po 1.1		
Fougeron, I.	Sy 1.1	Majid, R.	Se 35.3	Spa, J. J.	Se 32.1		
Földi, E.	Se 40.1	Malsheen, B. J.	Se 28.1	Steponavičius, A.	Se 25.2		
Franco, H. E.	Se 37.3	Mannell, R. H.	Se 28.2	Stojanović, C.	Se 24.4		
Gavrashenko, A. N.	Se 37.5	Manninen, O.	Po 1.7	Stong-Jensen, M.	Se 27.3		
Georgieva, M. A.	Se 40.3	Marchal, A.	Se 37.4	Strangert, E.	Se 27.1		
Giannini, A.	Se 32.4	Marteau, P. F.	Se 36.5	Strelnikov, I. Y.	Se 34.5		
Gorshkova, K. V.	Se 38.2	Mazur, V. N.	Se 23.5	Strelnikov, Y. A.	Se 34.5		
				Svantesson, J.-O.	Se 31.1		
				Svetozarova, N. D.	Sy 1.8		
				Szende, T.	Se 39.1		
				Tarkowski, Z.	Se 41.3		
				Torsuyeva-Leontyeva, I. G.	Sy 1.9		
				van Dommelen, W. A.	Se 29.1		
				Vilkman, E.	Po 1.7		
				von Cramon, D.	Se 33.1		
				Voronina, S. B.	Se 26.3		
				Weisalow, F. J.	Se 30.3		
				Weiss, H. E.	Se 26.1		
				Werner, H. K.	Se 31.4		