



# Transfer Accent Identification Learning for Enhancing Speech Emotion Recognition

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## Abstract

Emotional speech has some dependency on language or within a language itself, there are certain variations due to accents. The presence of accents degrades the performance of the speech emotion recognition (SER) system. A pre-trained accent identification system (AID) could effectively capture the characteristics of accent variations in emotional speech which is an important factor to develop a more reliable SER system. In this work, we investigate the dependencies between accent identification and emotion recognition to enhance the performance of SER. This paper proposes a novel transfer learning-based approach utilizing accent identification knowledge for SER. In the proposed method, the deep neural network (DNN) is used to model the accent identification system, which uses statistical aggregation functions (mean, std, median, etc.) of spectral subband centroid (SSC) features and Mel-frequency discrete wavelet coefficients (MFDWC). To build the SER, the deep convolutional recurrent autoencoder produces the attention-based latent representation, and the acoustic features are extracted by the openSMILE toolkit. A separate DNN model is used to learn the mapping between attention features and acoustic features for SER. In addition, the a priori knowledge of accent can lead the SER to effect the improvement which is possible through transfer learning (TL). The performance of the proposed method is assessed using the accented emotional speech utterances of the Crema-D dataset and also compared with state-of-the-art techniques. The experimental results show that transferring AID learning improves the recognition rate of the SER and results in around 8% relative improvement in accuracy as compared to the existing SER techniques.

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# Enhancing Articulation And Transfer

**Paul Berman**



## **Enhancing Articulation And Transfer:**

**Enhancing the Community College Pathway to Engineering Careers** National Research Council, National Academy of Engineering, Policy and Global Affairs, Board on Higher Education and Workforce, Committee on Engineering Education, Committee on Enhancing the Community College Pathway to Engineering Careers, 2006-01-01 Community colleges play an important role in starting students on the road to engineering careers but students often face obstacles in transferring to four year educational institutions to continue their education Enhancing the Community College Pathway to Engineering Careers a new book from the National Academy of Engineering and the National Research Council discusses ways to improve the transfer experience for students at community colleges and offers strategies to enhance partnerships between those colleges and four year engineering schools to help students transfer more smoothly In particular the book focuses on challenges and opportunities for improving transfer between community colleges and four year educational institutions recruitment and retention of students interested in engineering the curricular content and quality of engineering programs opportunities for community colleges to increase diversity in the engineering workforce and a review of sources of information on community college and transfer students It includes a number of current policies practices and programs involving community college four year institution partnerships

**Enhancing Articulation and Transfer** Carolyn Prager, 1988-01-01 This collection of essays offers a variety of perspectives on academic and procedural aspects of transfer and articulation activities The volume includes articles on state regional and foundation sponsored efforts to improve transfer processes as well as essays concerned with programs to create vehicles and channels for interinstitutional faculty contact The following articles are presented 1 Articulation and Dual Admissions by Kenneth B Woodbury Jr 2 Articulation Florida Style by Robert S Palinchak 3 Transferability in the Liberal Arts and Sciences by Dympna Bowles 4 The Crucial Role of Faculty in Transfer Articulation by Renee Berger and Aida M Ortiz Ruiz 5 Transfer Relationships between Two Year and Four Year Technological Programs by Gary Thomas 6 Accreditation and Articulation of Business Programs by Mary Robertson Smith 7 Winning Together Negotiating Transfer Agreements in Allied Health by Elizabeth C King 8 An Information Driven Articulation Model by Richard D McCrary 9 The Other Transfer Degree by Carolyn Prager and 10 Sources and Information Policy and Practice in Articulation and Transfer by Anita Y Colby and Mary P Hardy EJV

**Enhancing Transfer Effectiveness, a Model for the 1990's** Paul Berman, 1990 In an effort to identify effective transfer practices appropriate to different community college circumstances and to establish a quantitative database that would enable valid comparisons of transfer between their 28 member institutions the National Effective Transfer Consortium NETC sponsored a survey of more than 30 000 students attending NETC colleges A database was created containing responses from 14 000 students representing a 44% response rate Additional data were added on ethnicity gender age and enrollment status on all credit enrollees from each member college for spring and fall 1988 amounting to information on almost 300 000 students in 13

states This report presents the results of the first year s research efforts of the NETC Chapter 1 reviews the inadequacies of the most common current approach to measuring transfer rates proposes a new definition of transfer rate and presents findings from the study in support of the new measurement Chapter 2 uses data obtained from the NETC colleges to illustrate the possibility of calculating an expected transfer rate range for any college or group of colleges Chapter 3 considers the different propensities to transfer of different types of students and discusses a new way to measure transfer effectiveness based on this insight Chapters 4 and 5 review organizational issues and transfer practices and strategies that colleges must consider in order to achieve high transfer effectiveness Chapter 6 sketches a specific approach colleges can use to enhance their transfer function Appendixes contain an overview of the study methods the questionnaire and a brief portrait of each of the member colleges of NETC GFW

Looking to the New Millenium Robert Albright, Stanley Bey, Oswald Cano, 1998-08 Contents effective and efficient use of public resources tuition aid grant distribution accelerated student learning education and workforce training research and scholarship academic support for diverse needs economic growth research funding urban revitalization community civility diversity enhancing the state s social health environment environmental preservation developing environmental talent health health care preventative health care substance abuse prevention Also essential conditions for achieving the vision facilities accountability technology advocacy

**Resources in Education**, 2000 *Building the Ohio Innovation Economy* National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Competing in the 21st Century: Best Practice in State and Regional Innovation Initiatives, 2013-01-30 Since 1991 the National Research Council under the auspices of the Board on Science Technology and Economic Policy has undertaken a program of activities to improve policymakers understandings of the interconnections of science technology and economic policy and their importance for the American economy and its international competitive position The Board s activities have corresponded with increased policy recognition of the importance of knowledge and technology to economic growth One important element of STEP s analysis concerns the growth and impact of foreign technology programs U S competitors have launched substantial programs to support new technologies small firm development and consortia among large and small firms to strengthen national and regional positions in strategic sectors Some governments overseas have chosen to provide public support to innovation to overcome the market imperfections apparent in their national innovation systems They believe that the rising costs and risks associated with new potentially high payoff technologies and the growing global dispersal of technical expertise underscore the need for national R analyses of specific industries and technologies from the perspective of crafting supportive public policy at all three levels and outreach to multiple stakeholders Building the Ohio Innovation Economy Summary of a Symposium explains the of the study which is to improve the operation of state and regional programs and collectively enhance their impact

**Serving Vulnerable and Marginalized Populations in Social and Educational Contexts** Anies Al-Hroub, Sally Reis, Joseph

Madaus,Itab Shuayb,2024-04-26 There is evidence that the global COVID 19 crisis is exacerbating existing inequalities and marginalization of vulnerable groups including exceptional learners stateless street migrant and refugee children and youths and the limited use of frameworks of emergency planning with and for marginalized and at risk individuals These challenges are multi sectoral and intersecting and they require multi and interdisciplinary interventions to inform inclusive responses These issues include being at a greater risk of excluding vulnerable learners from gaining access to equitable education online remote and blended education Intersecting forms of discrimination such as gender socioeconomic and legal status further exacerbate the problem This has alerted us to examine the living conditions of marginalized and vulnerable populations around the globe and to reveal their experiences problems and needs from an educational perspective thus bringing insights into their vulnerabilities during the pandemic *The State of College Access and Completion* Laura W. Perna,Anthony Jones,2013-07-18 Despite decades of substantial investments by the federal government state governments colleges and universities and private foundations students from low income families as well as racial and ethnic minority groups continue to have substantially lower levels of postsecondary educational attainment than individuals from other groups The State of College Access and Completion draws together leading researchers nationwide to summarize the state of college access and success and to provide recommendations for how institutional leaders and policymakers can effectively improve the entire spectrum of college access and completion Springboarding from a seminar series organized by the Advisory Committee on Student Financial Assistance chapter authors explore what is known and not known from existing research about how to improve student success This much needed book calls explicit attention to the state of college access and success not only for traditional college age students but also for the substantial and growing number of nontraditional students Describing trends in various outcomes along the pathway from college access to completion this volume documents persisting gaps in outcomes based on students demographic characteristics and offers recommendations for strategies to raise student attainment Graduate students scholars and researchers in higher education will find The State of College Access and Completion to be an important and timely resource *Supporting Transfer Student Success* Peggy L. Nuhn,Karen F. Kaufmann,2020-11-06 This research based book with practical applications teaches academic librarians to support their transfer students effectively at both universities and community colleges even when transfer students information literacy needs differ from those of other students Colleges and universities across the United States serve a large and growing population of transfer students Current estimates suggest that more than one third of college students transfer from one institution of higher education to another at least once At some institutions transfer students compose up to fifty to sixty percent of the new incoming class Academic librarians understanding of the demographics and potential needs of transfer students is essential to supporting their success and mitigating transfer shock Just as public libraries often bridge gaps between individuals and services academic libraries can proactively support the often unique needs of transfer students

by spearheading textbook affordability initiatives developing innovative programming and making appropriate referrals to non library student services In this practical guide to supporting transfer students authors Peggy L Nuhn and Karen F Kaufmann teach academic librarians how to optimize information literacy instruction support research help reduce stress and connect the library to virtual students They emphasize the importance of establishing partnerships with feeder institutions and other campus departments to best support transfer student success      **International Handbook of Education for the Changing World of Work** Rupert Maclean,David Wilson,2009-06-29 The aim of this Handbook is to review the developments that have occurred in Technical and vocational education and training TVET and that may help improve the field The Handbook provides information on TVET models that occur in different parts of the world reflects best and innovative practice and wherever possible uses case studies as examples The 220 authors are representative of the various regions of the world and major international organisations involved in TVET This volume presents the work of established researchers as well as the work of promising young researchers Intended as the universally accepted resource for the field the Handbook provides a comprehensive coverage of cutting edge developments in research policy and practice in TVET within a single source It will assist those involved in TVET at any level in making informed decisions and further advance and improve the field and to bridge the gap between vocational and academic education in the 21st century

*Recognizing and Serving Low-Income Students in Higher Education* Adrianna Kezar,2010-09-13 This contributed volume uncovers the biases that prevent post secondary institutions from serving low income students and offers guidance for adopting policies and practices to help these students thrive      *Higher education for science and engineering.* ,1989

*Articulating Programs Between Two- and Four-year Institutions by Identifying Course and Program Competencies* Rajwant Kaur Gill,1992      **The Role of the National Science Foundation in K-12 Science and Math Education** United States. Congress. House. Committee on Science,2006      *Improving Postsecondary Choice and Pathways* Katherine C. Aquino,Ryan P. Hudes,2020-04-07 *Improving Postsecondary Choice and Pathways* explores the influences and experiences throughout a student s transition from secondary to postsecondary education with an emphasis on the fit between academic readiness and institutional selectivity Designed to consider the variegated experiences and factors contributing to student college match chapters in this volume explore the challenges associated with the college search choice and application processes and how they affect specific student groups Additionally this text investigates the stakeholders and programs designed to assist students in finding suitable postsecondary institutions This book holistically explores the varied aspects within student college match while also providing a glimpse into innovative approaches for improving outcomes via an expanded consideration of college choice and student college match determinations      **Community Colleges as Incubators of Innovation** Rebecca A. Corbin,Ron Thomas,2023-07-03 While community colleges have traditionally focused on providing students with opportunities to gain credentials for employment the increasingly important question is Are they

preparing students for the looming dynamic disruptive and entrepreneurial environments ahead This book addresses the urgent need for community colleges to prioritize entrepreneurship education both to remain relevant in a changing economy and to give graduate students the flexible and interdisciplinary mindsets needed for the future of society It argues that entrepreneurial education should be offered broadly to a wide range of students and across all disciplines defines the key constructs for achieving this objective and describes how to create entrepreneurial learning environments The expert contributors with the support of the National Association for Community College Entrepreneurship NACCE start from the premise that community colleges are uniquely positioned to lead entrepreneurial initiatives through both internally generated curriculum design and through collaboration with the local entrepreneurial community to build bridges between the classroom to the community which in turn can offer models of implementation and constitute a network or support system for students Community colleges can become incubators of innovation a magnet for talent and provide the impetus for development strategies that their communities have not begun to realize As the chapters make clear developing an entrepreneurial program itself requires an entrepreneurial mindset that transcends any lack of resources requiring a spirit of imagination and resourcefulness This book takes the reader on a journey through the steps needed to build a meaningful relevant and sustainable entrepreneurship program covering program development curriculum design appropriate pedagogical approaches and community engagement Financing American Higher Education in the Era of Globalization William Zumeta, David W. Breneman, Patrick M. Callan, Joni E. Finney, 2021-02-23 This ambitious book grows out of the realization that a convergence of economic demographic and political forces in the early twenty first century requires a fundamental reexamination of the financing of American higher education The authors identify and address basic issues and trends that cut across the sectors of higher education focusing on such questions as how much higher education the country needs for individual opportunity and for economic viability in the future how responsibility for paying for it is currently allocated and how financing higher education should be addressed in the future **ERIC Clearinghouse Publications**, 1983 *Community College Review*, 1998 Researching Transitions in Lifelong Learning John Field, Jim Gallacher, Robert Ingram, 2009-06-03 Researching Transitions in Lifelong Learning presents new research from Britain Australia and North America The authors include leading scholars with established international reputations such as Kathryn Ecclestone Norton Grubb David Boud and Gert Biesta as well as emerging researchers with fresh and sometimes challenging perspectives

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