

**Patents: Granted/Filed**

1. S. Narayanan, A. Potamianos, and I. Zeljkovic, "Unsupervised HMM adaptation based on speech-silence discrimination." U.S. Patent 6,076,057, June 13, 2000 (filed 1997).
2. D. Dutton, S. Narayanan, and I. Zeljkovic, "Interface for a voice-activated connection system." U.S. Patent 6,138,100, Oct 24, 2000 (filed 1998).
3. E. Levin, S. Narayanan, R. Pieraccini, and I. Zeljkovic, "Method of using a natural language interface to retrieve information from one or more data resources." U.S. Patent 6,173,279, Jan 9, 2001, (filed 1998).
4. B. Gajic, S. Narayanan, S. Parthasarathy, R. Rose, and A. Rosenberg, "Systems and methods for dynamic reconfigurable speech recognition." U.S. Patent 7,209,880, April 24, 2007 (filed March 2001).
5. S. Narayanan, S. Parthasarathy, R. Rose, and A. Rosenberg, "System and method for processing speech recognition results." U.S. Patent 7,219,058, May 15, 2007 (filed October 2000).
6. B. Gajic, S. Narayanan, S. Parthasarathy, R. Rose, and A. Rosenberg, "System and method of performing speech recognition based on a user identifier", U.S. Patent 7,451,081, November 11, 2008 (filed March 13, 2007)
7. S. Narayanan, S. Parthasarathy, R. Rose, and A. Rosenberg, "System and method for providing a compensated speech recognition model for speech recognition", U.S. Patent 7,451,085, November 11, 2008 (filed October 1, 2001)
8. S. Narayanan, P. G. Georgiou, A. Sethy, `` Topic Specific Language Models built from a large number of documents." U.S. Patent 7,739,286, June 15, 2010 (Filed 2005).
9. R. Rose, S. Parthasarathy, A. Rosenberg and S. Narayanan, "System and method for processing speech recognition." U.S. Patent 7,904,294, March 8, 2011 (filed April 2007).
10. R. Rose, S. Parthasarathy, A. Rosenberg and S. Narayanan, ``System and method for providing a compensated speech recognition model for speech recognition." U.S. Patent 7,996,220, August 9, 2011 (filed November 4, 2008).
11. S. Narayanan, P. Georgiou, "Socially Cognizant Translation By Detecting And Transforming Elements Of Politeness And Respect." U.S. Patent 8,032,355, October 4, 2011, (Filed May 22, 2007).
12. S. Narayanan, P. Georgiou, M. Bulut, D. Wang, "Spoken translation system using meta information strings." U.S. Patent 8,032,356, October 4, 2011, (Filed May 25, 2007).
13. S. Narayanan, "Emotion Recognition System." U.S. Patent No. 8,209,182, June 26, 2012 (Filed November 2006).
14. R. Rose, S. Parthasarathy, A. Rosenberg and S. Narayanan, ``System and method for processing speech recognition." U.S. Patent 8,346,550, January 1, 2013 (filed February 14, 2011).
15. R. Rose, S. Parthasarathy, A. Rosenberg and S. Narayanan, ``System and method for processing speech recognition." U.S. Patent 8,571,861, October 13, 2013 (filed November 30, 2012).
16. S. Narayanan, P. Georgiou, "Communication system using mixed translating while in multilingual communication." U.S. Patent 8,706,471, April 22, 2014 (Filed May 18, 2007).
17. B. Gajic, S. Narayanan, S. Parthasarathy, R. Rose, and A. Rosenberg, "System and method of performing user-specific automatic speech recognition", U.S. Patent 9,058,810, June 16, 2015 (filed March 26, 2012)

18. Shrikanth Narayanan, Victor Martinez, Anil Ramakrishna, Krishna Somandepalli, Nikos Malandrakis, Karan Singla. LINGUISTIC ANALYSIS OF DIFFERENCES IN PORTRAYAL OF MOVIE CHARACTERS. U.S. Patent 10,956,679, March 23, 2021 (SEPTEMBER 20, 2018)
19. Efthymis Georgiou, Georgios Paraskevopoulos, James Gibson, Alexandros Potamianos, Shrikanth Narayanan. DEEP HIERARCHICAL FUSION FOR MACHINE INTELLIGENCE APPLICATIONS. U.S. Patent 11,862,145, January 2, 2024 (April 20, 2020).
20. Timmons, A. C., Chaspari, T., Narayanan, S. S., & Margolin, G. A Technology-Facilitated Support System for Monitoring and Understanding Interpersonal Relationships. 2017
21. Timmons, A. C., Chaspari, T., Ahle, M., Narayanan, S. S., & Margolin, G. An Expert-Driven, Technology-Facilitated Intervention System for Improving Interpersonal Relationships. 2017
22. Amar Dhand, Min Shin, Mattias Mehl, Shrikanth Narayanan. Mobile Wearable Audio-Based System for Estimating Social Interaction Levels. 2021