

Special Education Technology Research You Can Use

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Topic: AAC			
<i>Number</i>	<i>Citation</i>	<i>Evidence</i>	<i>Notes</i>
1	Moorcroft, A., Scarinci, N., & Meyer, C. (2021). "I've had a love-hate, I mean mostly hate relationship with these PODD books": Parent perceptions of how they and their child contributed to AAC rejection and abandonment. <i>Disability and Rehabilitation: Assistive Technology</i> , 16(1), 72-82.	6 - Single research study	
Topic: Accessibility			
2	Kumar, S., Shree DV, J., & Biswas, P. (2021). Comparing ten WCAG tools for accessibility evaluation of websites. <i>Technology and Disability</i> , 33(3), 163-185.	6 - Single research study	
Topic: AT Devices and Services			
3	Joyce, K. E., & Cartwright, N. (2020). Bridging the gap between research and practice: Predicting what will work locally. <i>American Educational Research Journal</i> , 57(3), 1045-1082.	7 - Expert opinion	
4	Lenker, J. A., Koester, H. H., & Smith, R. O. (2021). Toward a national system of assistive technology outcomes measurement. <i>Assistive Technology</i> , 33(1), 1-8.	7 - Expert opinion	
5	Lo, L., Hebert, D., & Colquhoun, C. (2021). Measuring practice gaps in the delivery of evidence-based seating assessments: A retrospective chart review. <i>Disability and Rehabilitation: Assistive Technology</i> , 16(3), 255-261.	6 - Single research study	
6	Ward-Sutton, C., Williams, N. F., Moore, C. L., & Manyibe, E. O. (2020). Assistive technology access and usage barriers among African Americans with disabilities: A review of the literature and policy. <i>Journal of Applied Rehabilitation Counseling</i> , 51(2), 115-133.	5 - Systemic review	
Topic: AT and Behavior			
7	Emerling, C. R., Wilkinson, S., & Maggin, D. M. (2021). Educator knowledge and implementation of assistive technology to support challenging behaviors: An exploratory inquiry. <i>Journal of Special Education Technology</i> , 36(3), 162-174.	6 - Single research study	
8	Kaimara, P., Oikonomou, A. C., Deliyannis, I., Papadopoulou, A., Miliotis, G., Fokides, E., & Floros, A. (2021). Waking up in the morning (WUIM): A transmedia project for daily living skills training. <i>Technology and Disability</i> , 33(2), 137-161.	6 - Single research study	
9	Riden, B. S., Taylor, J. C., Scheeler, M. C., Lee, D. L., & McCloskey, A. V. (2021). The effects of an electronic daily behavior report card on student's challenging behavior. <i>Journal of Special Education Technology</i> , 36(3), 127-140.	6 - Single research study	

Topic: AT and Instruction			
10	Thapliyal, M., & Ahuja, N. J. (2021). Underpinning implications of instructional strategies on assistive technology for learning disability: A meta-synthesis review. <i>Disability and Rehabilitation: Assistive Technology</i> , 1-9. https://www.tandfonline.com/doi/abs/10.1080/17483107.2020.1864669	6 - Single research study	
Topic: AT in Post-Secondary Education			
11	McNicholl, A., Casey, H., Desmond, D., & Gallagher, P. (2021). The impact of assistive technology use for students with disabilities in higher education: A systematic review. <i>Disability and Rehabilitation: Assistive Technology</i> , 16(2), 130-143.	5 - Systemic review	
Topic: Machine Learning / Computer Vision			
12	Bhandari, A., Prasad, P.W., Alsadoon, A., & Maag, A. (2021). Object detection and recognition: Using deep learning to assist the visually impaired. <i>Disability and Rehabilitation: Assistive Technology</i> , 16(3), 280-288.	6 - Single research study	
13	de Oliveira S.A., Silva, L. R., & Pereira, R. (2021). Computer vision applied to improve interaction and communication of people with motor disabilities: A systematic mapping. <i>Technology and Disability</i> , 33(1), 11-28.	5 - Systemic review	
14	Lillywhite, A., & Wolbring, G. (2019). Coverage of ethics within the artificial intelligence and machine learning academic literature: The case of disabled people. <i>Assistive Technology</i> , 3(3), 129-135.	6 - Single research study	
Topic: Mobility			
15	Alqahtani, S., Joseph, J., Dicianno, B., Layton, N.A., Toro, M.L., Ferretti, E. ... Cooper, R. (2021). Stakeholder perspectives on research and development priorities for mobility assistive-technology: A literature review. <i>Disability and Rehabilitation: Assistive Technology</i> , 16(4), 362-376.	5 - Systemic review	
16	Arps, K., Darr, N., & Katz, J. (2021). Effect of adapted motorized ride-on toy use on developmental skills, quality of life, and driving competency in non-ambulatory children age 9-60 months. <i>Assistive technology</i> . https://doi.org/10.1080/10400435.2021.1956643	6 - Single research study	
Topic: AT & Reading			
17	Reed, D. K., Martin, E., Hazeltine, E., & McMurray, B. (2020). Students' perceptions of a gamified reading assessment. <i>Journal of Special Education Technology</i> , 35(4), 191-203.	6 - Single research study	
18	Wood, L., Browder, D. M., & Spooner, F. (2020). Teaching listening comprehension of science e-texts for students with moderate intellectual disability. <i>Journal of Special Education Technology</i> , 35(4), 272-285.	3 - Well designed controlled trial	
Topic: Robots			
19	Lebrasseur, A., & Josiane Lettre, O. T. (2021). Assistive robotic arm: Evaluation of the performance of intelligent algorithms. <i>Assistive Technology</i> , 33(2), 95-104.	4 - Well designed experiment	

20	Mohebbi, A. (2020). Human-robot interaction in rehabilitation and assistance: A review. <i>Current Robotics Reports, 1</i> , 131-144. [Locate using Google Scholar cited by Lebrasseur, 2021)	5 - Systemic review	
Topic: Self-Advocacy			
21	Balint-Langel, K., Woods-Groves, S., Rodgers, D. B., Rila, A., & Riden, B. S. (2020). Using a computer-based strategy to teach self-advocacy skills to middle school students with disabilities. <i>Journal of Special Education Technology, 35</i> (4), 249-261.	6 - Single research study	
Topic: Wearable AT			
22	Koumpouros, Y. (2021). An “all-in-one” wearable application for assisting children with Autism Spectrum Disorder. <i>Technology and Disability, 33</i> (1), 65-75.	6 - Single research study	
Topic: Wheelchairs			
23	Arlati, S., Colombo, V., Ferrigno, G., Sacchetti, R., & Sacco, M. (2021). Virtual reality-based wheelchair simulators: A scoping review. <i>Assistive Technology, 32</i> (6), 294-305.	5 - Systemic review	
24	Múnera, S., & Boninger, M. (2019). Development and efficacy of an online wheelchair maintenance training program for wheelchair personnel. <i>Assistive Technology, 33</i> (1), 49-55.	6 - Single research study	

Evidence Level Rankings

- 1 - Meta analysis with effect size
- 2 - Well designed RCT
- 3 - Well designed controlled trial
- 4 - Well designed experiment
- 5 - Systemic review
- 6 - Single research study
- 7 - Expert opinion