

REFERENCES

- [1] D. Kristiantini, "Chair of the Indonesian Dyslexia Association," 2017.
- [2] D. Bavelier, C. S. Green, and M. S. Seidenberg, "Cognitive development: gaming your way out of dyslexia?," *Curr. Biol.*, vol. 23, no. 7, pp. R282--R283, 2013.
- [3] T. Cuschieri, R. Khaled, V. E. Farrugia, H. P. Martinez, and G. N. Yannakakis, "The iLearnRW game: support for students with Dyslexia in class and at home," in *2014 6th International Conference on Games and Virtual Worlds for Serious Applications (VS-GAMES)*, 2014, pp. 1--2.
- [4] S. M. Daud and H. Abas, "'Dyslexia Baca' Mobile App--The Learning Ecosystem for Dyslexic Children," in *2013 International Conference on Advanced Computer Science Applications and Technologies*, 2013, pp. 412--416.
- [5] S. Franceschini, S. Gori, M. Ruffino, S. Viola, M. Molteni, and A. Facchetti, "Action video games make dyslexic children read better," *Curr. Biol.*, vol. 23, no. 6, pp. 462--466, 2013.
- [6] M. H. Raskind and E. L. Higgins, "Speaking to read: The effects of speech recognition technology on the reading and spelling performance of children with learning disabilities," *Ann. Dyslexia*, vol. 49, no. 1, pp. 251--281, 1999.
- [7] L. Rello, C. Bayarri, and A. Gorriz, "What is wrong with this word? Dysegxia: a game for children with dyslexia," in *Proceedings of the 14th international ACM SIGACCESS conference on Computers and accessibility*, 2012, pp. 219--220.
- [8] L. Rello, C. Bayarri, Y. Otal, and M. Pielot, "A computer-based method to improve the spelling of children with dyslexia," in *Proceedings of the 16th international ACM SIGACCESS conference on Computers & accessibility*, 2014, pp. 153--160.
- [9] M. R. U. Saputra and M. Risqi, "LexiPal: Design, implementation and evaluation of gamification on learning application for dyslexia," *Int. J. Comput. Appl.*, vol. 131, no. 7, pp. 37--43, 2015.
- [10] J. P. Hourcade, N. E. Bullock-Rest, and T. E. Hansen, "Multitouch tablet applications and activities to enhance the social skills of children with autism spectrum disorders," *Pers. ubiquitous Comput.*, vol. 16, no. 2, pp. 157--168, 2012.
- [11] A. M. Piper, E. O'Brien, M. R. Morris, and T. Winograd, "SIDES: a cooperative tabletop computer game for social skills development," in *Proceedings of the 2006 20th anniversary conference on Computer supported cooperative work*, 2006, pp. 1--10.
- [12] F. D. D. Reed, S. R. Hyman, and J. M. Hirst, "Applications of technology to teach social skills to children with autism," *Res. Autism Spectr. Disord.*, vol. 5, no. 3, pp. 1003--1010, 2011.
- [13] F. J. Sansosti and K. A. Powell-Smith, "Using computer-presented social stories and video models to increase the social communication skills of children with high-functioning autism spectrum disorders," *J. Posit. Behav. Interv.*, vol. 10, no. 3, pp. 162--178, 2008.
- [14] A. Tartaro, J. Cassell, C. Ratz, J. Lira, and V. Nanclares-Nogués, "Assessing peer social interaction: using authorable virtual peer technology as a component of a group social skills intervention program," *ACM Trans. Access. Comput.*, vol. 6, no.

- 1, p. 2, 2015.
- [15] D. Goleman, "Emotional intelligence. Why it can matter more than IQ.," *Learning*, vol. 24, no. 6, pp. 49–50, 1996.
- [16] "Indigrow Child Development Center," Bandung, Indonesia.
- [17] M. Narimani, A. Sadeghi, N. Homeily, and H. Siahpoosh, "A comparison of emotional intelligence and behavior problems in dyslexic and non-dyslexic boys," *J. Appl. Sci.*, vol. 9, no. 7, pp. 1388–1390, 2009.
- [18] D. Goleman, "Kecerdasan Emosional, terj," *T. Hermaya, Jakarta Gramedia Pustaka Utama*, 1996.
- [19] A. P. Association and others, "DSM: Diagnostic and Statistical Manual of Mental Disorders, VA: Arlington." 1994.
- [20] "International Dyslexia Association," 2013. [Online]. Available: www.dyslexia-international.org.
- [21] "User Experience Professionals Association." [Online]. Available: www.uxpa.org.
- [22] J. L. Tan, D. H.-L. Goh, R. P. Ang, and V. S. Huan, "Child-centered interaction in the design of a game for social skills intervention," *Comput. Entertain.*, vol. 9, no. 1, p. 2, 2011.
- [23] A. All, E. P. N. Castellar, and J. Van Looy, "Assessing the effectiveness of digital game-based learning: Best practices," *Comput. Educ.*, vol. 92, pp. 90–103, 2016.
- [24] P. Backlund and M. Hendrix, "Educational games-are they worth the effort? A literature survey of the effectiveness of serious games," in *2013 5th international conference on games and virtual worlds for serious applications (VS-GAMES)*, 2013, pp. 1–8.
- [25] T. M. Connolly, E. A. Boyle, E. MacArthur, T. Hainey, and J. M. Boyle, "A systematic literature review of empirical evidence on computer games and serious games," *Comput. Educ.*, vol. 59, no. 2, pp. 661–686, 2012.
- [26] A. Knutas, J. Ikonen, U. Nikula, and J. Porras, "Increasing collaborative communications in a programming course with gamification: a case study," in *Proceedings of the 15th International Conference on Computer Systems and Technologies*, 2014, pp. 370–377.
- [27] E. Tsekleves, J. Cosmas, and A. Aggoun, "Benefits, barriers and guideline recommendations for the implementation of serious games in education for stakeholders and policymakers," *Br. J. Educ. Technol.*, vol. 47, no. 1, pp. 164–183, 2016.
- [28] S. Deterding, D. Dixon, R. Khaled, and L. Nacke, "From game design elements to gamefulness: defining gamification," in *Proceedings of the 15th international academic MindTrek conference: Envisioning future media environments*, 2011, pp. 9–15.
- [29] P. Di Bitonto, N. Corriero, E. Pesare, V. Rossano, and T. Roselli, "Training and learning in e-health using the gamification approach: the trainer interaction," in *International Conference on Universal Access in Human-Computer Interaction*, 2014, pp. 228–237.
- [30] J. Hense, M. Klevers, M. Sailer, T. Horenburg, H. Mandl, and W. Günthner, "Using gamification to enhance staff motivation in logistics," in *International Simulation*

and Gaming Association Conference, 2013, pp. 206–213.

- [31] “OpenDyslexic.” [Online]. Available: www.opendyslexic.org.
- [32] “Unity.” [Online]. Available: www.unity.com.