

REFERENCES

- [1] J. A. Pape and T. C. N. Graham, "Coordination policies for tabletop gaming," in *CEUR Workshop Proceedings*, 2010, vol. 588, pp. 24–25.
- [2] A. A. Qaffas, "An operational study of video games' genres," *Int. J. Interact. Mob. Technol.*, vol. 14, no. 15, pp. 175–194, 2020, doi: 10.3991/IJIM.V14I15.16691.
- [3] P. Perick, D. L. St-Pierre, F. Maes, and D. Ernst, "Comparison of different selection strategies in Monte-Carlo Tree Search for the game of Tron," in *2012 IEEE Conference on Computational Intelligence and Games, CIG 2012*, 2012, pp. 242–249, doi: 10.1109/CIG.2012.6374162.
- [4] S. R. James and B. D. Gillam, "Full-Time Turn Based Network Multiplayer Game," 2001.
- [5] S. Sbirna and L. S. Sbirna, "Programming design and object-oriented development paradigms of an Android-based distributed social game system," in *2018 22nd International Conference on System Theory, Control and Computing, ICSTCC 2018 - Proceedings*, 2018, pp. 407–412, doi: 10.1109/ICSTCC.2018.8540716.
- [6] D. Vaquero-Melchor, A. M. Bernardos, and L. Bergesio, "SARA: A microservice-based architecture for cross-platform collaborative augmen," *Appl. Sci.*, vol. 10, no. 6, 2020, doi: 10.3390/app10062074.
- [7] M. Kwiatkowska, G. Norman, D. Parker, and G. Santos, "PRISM-games 3.0: Stochastic Game Verification with Concurrency, Equilibria and Time," *Lect. Notes Comput. Sci. (including Subser. Lect. Notes Artif. Intell. Lect. Notes Bioinformatics)*, vol. 12225 LNCS, pp. 475–487, 2020, doi: 10.1007/978-3-030-53291-8_25.
- [8] C. Si, Y. Pisan, and C. T. Tan, "A scouting strategy for real-time strategy games," in *ACM International Conference Proceeding Series*, 2014, vol. 02-03-Dece, doi: 10.1145/2677758.2677772.
- [9] S. Link *et al.*, "An intelligent multimodal mixed reality real-time strategy game," in *Proceedings - IEEE Virtual Reality*, 2016, vol. 2016-July, pp. 223–224, doi: 10.1109/VR.2016.7504734.
- [10] D. Keaveney and C. O'Riordan, "Evolving robust strategies for an abstract real-time strategy game," in *CIG2009 - 2009 IEEE Symposium on Computational Intelligence and Games*, 2009, pp. 371–378, doi: 10.1109/CIG.2009.5286453.
- [11] T. M. Corsi, S. Boyson, A. Verbraeck, S.-P. Van Houten, C. Han, and J. R. MacDonald, "The real-time global supply chain game: New educational tool for developing supply chain management professionals," *Transp. J.*, vol. 45, no. 3, pp. 61–73, 2006.
- [12] C. Gutwin, M. Barjawi, and D. Pinelle, "The emergence of high-speed interaction and coordination in a (formerly) turn-based groupware game," in *Proceedings of the International ACM SIGGROUP Conference on Supporting Group Work*, 2016, vol. 13-16-Nove, pp. 277–286, doi: 10.1145/2957276.2957315.
- [13] M. Buro and T. Furtak, "On the Development of a Free RTS Game Engine," in *GameOn'NA Conference*, 2005, pp. 23–27.
- [14] M. Chung, M. Buro, and J. Schaeffer, "Monte carlo planning in RTS games," in *IEEE 2005 Symposium on Computational Intelligence and Games, CIG'05*, 2005, pp. 117–124.
- [15] G. Synnaeve, P. Bessiere, A. B. Model, U. Control, G. Synnaeve, and P. Bessi, "A Bayesian Model for RTS Units Control applied to StarCraft," 2011.
- [16] G. Synnaeve *et al.*, "Multi-scale Bayesian modeling for RTS games: an application to StarCraft AI," *IEEE Trans. Comput. Intell. AI games*, vol. 8, no. 4, pp. 338–350, 2016, doi: 10.1109/TCIAIG.2015.2487743.
- [17] P. Avery and S. Louis, "Coevolving team tactics for a real-time strategy game," in *IEEE Congress on Evolutionary Computation*, 2010, pp. 1–8, doi: 10.1109/CEC.2010.5586211.
- [18] G. Bosc, "Strategic Pattern Discovery in RTS-games for E-Sport with Sequential Pattern Mining," in *Machine Learning and Data Mining for Sports Analytics*, 2013, pp. 1–11.
- [19] K. Karthik *et al.*, "Analysis and Prediction of Fantasy Cricket Contest Winners Using Machine Learning Techniques," *Adv. Intell. Syst. Comput.*, vol. 1176, pp. 443–453, 2021, doi: 10.1007/978-981-15-5788-0_43.
- [20] A. Sharma and U. Meena, "Undefeatable System Using Machine Learning," *Adv. Intell. Syst. Comput.*, vol. 1172, pp. 759–767, 2021, doi: 10.1007/978-981-15-5566-4_68.
- [21] V. Mnih and D. Silver, "Playing Atari with Deep Reinforcement Learning," *arXiv*, pp. 1–9, 2013.
- [22] Z. Wei, D. Wang, M. Zhang, A. Tan, C. Miao, and Y. Zhou, "Autonomous Agents in Snake Game via Deep Reinforcement Learning," in *2018 IEEE International Conference on Agents (ICA)*, 2018, pp. 20–25, doi: 10.1109/AGENTS.2018.8460004.
- [23] F. Chen, Y. Cui, and M.-W. Chu, "Utilizing Game Analytics to Inform and Validate Digital Game-based Assessment with Evidence-centered Game Design: A Case Study," *Int. J. Artif. Intell. Educ.*, vol. 30, no. 3, pp. 481–503, 2020, doi: 10.1007/s40593-020-00202-6.
- [24] S. A. Wallace, R. McCartney, and I. Russell, "Games and machine learning: A powerful combination in an artificial intelligence course," *Comput. Sci. Educ.*, vol. 20, no. 1, pp. 17–36, 2010, doi: 10.1080/08993400903525099.
- [25] J. Patterson and A. Gibson, *Deep Learning*. O'Reilly Media, Inc., 2017.
- [26] Y. Lecun, Y. Bengio, and G. Hinton, "Deep learning," *Review*, 2015, doi: 10.1038/nature14539.
- [27] S. Ji and K. Yu, "3D Convolutional Neural Networks for Human Action Recognition," 2010.
- [28] V. Mnih *et al.*, "Human-level control through deep reinforcement learning," *Nature*, vol. 518, no. 7540, pp. 529–533, 2015, doi: 10.1038/nature14236.
- [29] A. A. Nugraha, A. Arifianto, and Suyanto, "Generating Image Description on Indonesian Language using Convolutional Neural Network and Gated Recurrent Unit," in *2019 7th International Conference on Information and Communication Technology (ICoICT)*, Jul. 2019, pp. 1–6, doi: <https://doi.org/10.1109/ICoICT.2019.8835370>.
- [30] T. Elsken, J. H. Metzen, and F. Hutter, "Neural Architecture Search: A Survey," *J. Mach. Learn. Res.*, vol. 20, pp. 1–21, 2019, doi: 10.1007/978-3-030-05318-5_3.
- [31] M. H. Aliefa and S. Suyanto, "Variable-Length Chromosome for Optimizing the Structure of Recurrent Neural Network," in *2020 International Conference on Data Science and Its Applications (ICoDSA)*, Aug. 2020, pp. 1–5, doi: <https://doi.org/10.1109/ICoDSA50139.2020.9213012>.
- [32] Suyanto, *An informed genetic algorithm for university course and student timetabling problems*, vol. 6114 LNAI, no. PART 2. 2010, doi: https://doi.org/10.1007/978-3-642-13232-2_28.
- [33] A. C. Rizal and S. Suyanto, "Human-Like Constrained-Mating to Make Genetic Algorithm More Explorative," in *2020 8th International Conference on Information and Communication Technology (ICoICT)*, Jun. 2020, pp. 1–5, doi: <https://doi.org/10.1109/ICoICT49345.2020.9166387>.
- [34] F. Ahyar and S. Suyanto, "Firefly Algorithm-based Hyperparameters Setting of DRNN for Weather Prediction," in *2020 International Conference on Data Science and Its Applications (ICoDSA)*, Aug. 2020, pp. 1–5, doi: <https://doi.org/10.1109/ICoDSA50139.2020.9212921>.
- [35] B. Z. Aufa, S. Suyanto, and A. Arifianto, "Hyperparameter Setting of LSTM-based Language Model using Grey Wolf Optimizer," in *2020 International Conference on Data Science and Its Applications (ICoDSA)*, Aug. 2020, pp. 1–5, doi: <https://doi.org/10.1109/ICoDSA50139.2020.9213031>.
- [36] A. P. Pertwi and Suyanto, "Globally Evolved Dynamic Bee Colony Optimization," in *International Conference on Knowledge-Based and Intelligent Information and Engineering Systems, 12-14 September 2011, Published in Part I, LNAI vol. 6881, pp. 52–61, Springer-Verlag Berlin Heidelberg 2011, Print ISBN: 978-3-642-23851-2*, 2011, no. 1, pp. 52–61, doi: https://doi.org/10.1007/978-3-642-23851-2_6.
- [37] S.-J. Yen and Y.-C. Ho, "Pattern retrieval on the game of go," *Smart Innov. Syst. Technol.*, vol. 176, pp. 587–600, 2021, doi: 10.1007/978-981-15-4917-5_42.
- [38] B. Gravell, K. Ganapathy, and T. Summers, "Policy Iteration for Linear Quadratic Games with Stochastic Parameters," *IEEE Control Syst. Lett.*, vol. 5, no. 1, pp. 307–312, 2021, doi: 10.1109/LCSYS.2020.3001883.
- [39] D. Silver *et al.*, "A general reinforcement learning algorithm that masters chess, shogi, and Go through self-play," vol. 1144, no. December, pp. 1140–1144, 2018.
- [40] M.-J. Kim, J. S. Kim, S. J. Kim, M.-J. Kim, and C. W. Ahn, "Genetic state-grouping algorithm for deep reinforcement learning," *Expert Syst. Appl.*, vol. 161, 2020, doi: 10.1016/j.eswa.2020.113695.
- [41] S. Ivanov and D. Alexander, "Modern Deep Reinforcement Learning Algorithms," *arXiv*, 2019.
- [42] S. Wang, "Deep Reinforcement Learning for Autonomous Driving," *arXiv*, 2019.