**REFERENCES**

[1] F. Abel, Q. Gao, G.-J. Houben, and K. Tao, “Analyzing user modeling

on Twitter for personalized news recommendations,” in Proc. 19th Int.

Conf. Modeling, Adaption, Pers. (UMAP). Berlin, Germany: Springer-

Verlag, 2011, pp. 1–12.

[2] F. Abel, Q. Gao, G.-J. Houben, and K. Tao, “Twitter-based user modeling

for news recommendations,” in Proc. Int. Joint Conf. Artif. Intell.,

vol. 13, 2013, pp. 2962–2966.

[3] G. Adomavicius and A. Tuzhilin, “Toward the next generation of

recommender systems: A survey of the state-of-the-art and possible

extensions,” IEEE Trans. Knowl. Data Eng., vol. 17, no. 6, pp. 734–749,

Jun. 2005.

[4] O. Araque, I. Corcuera-Platas, J. F. Sánchez-Rada, and C. A. Iglesias,

“Enhancing deep learning sentiment analysis with ensemble techniques

in social applications,” Expert Syst. Appl., vol. 77, pp. 236–246,

Jul. 2017.

[5] E. Aslanian, M. Radmanesh, and M. Jalili, “Hybrid recommender systems

based on content feature relationship,” IEEE Trans. Ind. Informat.,

early access, Nov. 21, 2016, doi: 10.1109/TII.2016.2631138.

[6] J. Bobadilla, F. Ortega, A. Hernando, and J. Alcalá, “Improving collaborative

filtering recommender system results and performance using

genetic algorithms,” Knowl.-Based Syst., vol. 24, no. 8, pp. 1310–1316,

Dec. 2011.

[7] R. Burke, “Hybrid recommender systems: Survey and experiments,”

User Model. User-Adapted Interact., vol. 12, no. 4, pp. 331–370, 2002.

[8] E. Cambria, “Affective computing and sentiment analysis,” IEEE Intell.

Syst., vol. 31, no. 2, pp. 102–107, Mar./Apr. 2016.

[9] I. Cantador, A. Bellogín, and D. Vallet, “Content-based recommendation

in social tagging systems,” in Proc. 4th ACM Conf. Rec. Syst. (RecSys),

2010, pp. 237–240.

[10] P. Cremonesi, Y. Koren, and R. Turrin, “Performance of recommender

algorithms on top-N recommendation tasks,” in Proc. 4th ACM Conf.

Rec. Syst. (RecSys), 2010, pp. 39–46. [11] J. Dong, X. Li, C. Xu, G. Yang, and X. Wang, “Feature re-learning with

data augmentation for content-based video recommendation,” in Proc.

ACM Multimedia Conf. (MM), 2018, pp. 2058–2062.

[12] S. Dooms, T. D. Pessemier, and L. Martens, “MovieTweetings: A movie

rating dataset collected from Twitter,” in Proc. Workshop Crowdsourcing

Hum. Comput. Rec. Syst., 2013, pp. 1–2.

[13] C. Du and L. Huang, “Text classification research with attention-based

recurrent neural networks,” Int. J. Comput. Commun. Control, vol. 13,

no. 1, pp. 50–61, 2018.

[14] X. Du, H. Yin, L. Chen, Y. Wang, Y. Yang, and X. Zhou, “Personalized

video recommendation using rich contents from videos,” IEEE Trans.

Knowl. Data Eng., vol. 32, no. 3, pp. 492–505, Mar. 2020.

[15] A. Flexer and J. Stevens, “Mutual proximity graphs for improved

reachability in music recommendation,” J. New Music Res., vol. 47,

no. 1, pp. 17–28, Jan. 2018.

[16] X. Fu and Y. Shen, “Study of collective user behaviour in Twitter:

A fuzzy approach,” Neural Comput. Appl., vol. 25, nos. 7–8,

pp. 1603–1614, Dec. 2014.

[17] M. Giatsoglou, M. G. Vozalis, K. Diamantaras, A. Vakali,

G. Sarigiannidis, and K. C. Chatzisavvas, “Sentiment analysis

leveraging emotions and word embeddings,” Expert Syst. Appl.,

vol. 69, pp. 214–224, Mar. 2017.

[18] D. Goldberg, D. Nichols, B. M. Oki, and D. Terry, “Using collaborative

filtering to weave an information tapestry,” Commun. ACM, vol. 35,

no. 12, pp. 61–70, Dec. 1992.

[19] F. Goossen, W. IJntema, F. Frasincar, F. Hogenboom, and U. Kaymak,

“News personalization using the CF-IDF semantic recommender,”

in Proc. Int. Conf. Web Intell., Mining Semantics (WIMS), 2011,

pp. 10:1–10:12.

[20] R. Harakawa, D. Takehara, T. Ogawa, and M. Haseyama, “Sentimentaware

personalized tweet recommendation through multimodal FFM,”

Multimedia Tools Appl., vol. 77, no. 14, pp. 18741–18759, Jul. 2018.

[21] C.-C. Hsu, H.-C. Chen, K.-K. Huang, and Y.-M. Huang, “A personalized

auxiliary material recommendation system based on learning style on

Facebook applying an artificial bee colony algorithm,” Comput. Math.

Appl., vol. 64, no. 5, pp. 1506–1513, Sep. 2012.

[22] C. J. Hutto and E. Gilbert, “Vader: A parsimonious rule-based model for

sentiment analysis of social media text,” in Proc. 8th Int. Conf. Weblogs

Social Media, 2014, pp. 216–225.

[23] L. Jin, D. Yuan, and H. Zhang, “Music recommendation based on

embedding model with user preference and context,” in Proc. IEEE 2nd

Int. Conf. Big Data Anal. (ICBDA), Mar. 2017, pp. 688–692.

[24] R. Katarya, “Movie recommender system with Metaheuristic artificial

bee,” Neural Comput. Appl., vol. 30, no. 6, pp. 1983–1990, Sep. 2018.

[25] R. Katarya and O. P. Verma, “An effective collaborativemovie recommender

system with cuckoo search,” Egyptian Informat. J., vol. 18,

no. 2, pp. 105–112, Jul. 2017.