**REFERENCES**

[1] A. Popescul, L. H. Ungar, D. M. Pennock, and S. Lawrence, ``Probabilistic

models for uni\_ed collaborative and content-based recommendation in

sparse-data environments,'' 2013, *arXiv:1301.2303*. [Online]. Available:

http://arxiv.org/abs/1301.2303

[2] G. Arora, A. Kumar, G. S. Devre, and A. Ghumare, ``Movie recommendation

system based on users similarity,'' *Int. J. Comput. Sci. Mobile Comput.*,

vol. 3, no. 4, pp. 765\_770, 2014.

[3] J. Bobadilla, F. Ortega, and A. Hernando, ``A collaborative \_ltering similarity

measure based on singularities,'' *Inf. Process. Manage.*, vol. 48, no. 2,

pp. 204\_217, Mar. 2012.

[4] C. Jiang, R. Duan, H. K. Jain, S. Liu, and K. Liang, ``Hybrid collaborative

\_ltering for high-involvement products: A solution to opinion sparsity and

dynamics,'' *Decis. Support Syst.*, vol. 79, pp. 195\_208, Nov. 2015.

[5] H. G. Rong, S. X. Huo, C. H. Hu, and J. X. Mo, ``User similarity-based

collaborative \_ltering recommendation algorithm,'' *J. Commun.*, vol. 35,

no. 2, pp. 16\_24, 2014.

[6] K.-Y. Chung, D. Lee, and K. J. Kim, ``Categorization for grouping associative

items using data mining in item-based collaborative \_ltering,''

*Multimedia Tools Appl.*, vol. 71, no. 2, pp. 889\_904, Jul. 2014.

[7] C.-K. Hsieh, L. Yang, Y. Cui, T.-Y. Lin, S. Belongie, and D. Estrin,

``Collaborative metric learning,'' in *Proc. 26th Int. Conf. World Wide Web*,

2017, pp. 193\_201.

[8] A. Mnih and R. R. Salakhutdinov, ``Probabilistic matrix factorization,'' in

*Proc. Adv. Neural Inf. Process. Syst.*, 2008, pp. 1257\_1264.

[9] C. Yu and L. Huang, ``A Web service QoS prediction approach based

on time- and location-aware collaborative \_ltering,'' *Service Oriented*

*Comput. Appl.*, vol. 10, no. 2, pp. 135\_149, Jun. 2016.

[10] X. Zhang, Z.Wang,W. Zhang, and F. Yang, ``A time-aware QoS prediction

approach toWeb service recommendation,'' in *Proc. 4th Int. Conf. Comput.*

*Eng. Netw.* Cham, Switzerland: Springer, 2015, pp. 739\_748.

[11] H. Li, ``Learning to rank for information retrieval and natural language

processing,'' *Synth. Lect. Hum. Lang. Technol.*, vol. 4, no. 1, pp. 1\_113,

Apr. 2011.

[12] S. Badsha, X. Yi, I. Khalil, D. Liu, S. Nepal, E. Bertino, and K.-Y. Lam,

``Privacy preserving location-aware personalized Web service recommendations,''

*IEEE Trans. Services Comput.*, early access, May 22, 2018, doi:

10.1109/TSC.2018.2839587.

[13] J. Zhu, P. He, Z. Zheng, and M. R. Lyu, ``A privacy-preserving QoS

prediction framework for Web service recommendation,'' in *Proc. IEEE*

*Int. Conf. Web Services*, Jun. 2015, pp. 241\_248.

[14] T. R. Hoens, M. Blanton, A. Steele, and N. V. Chawla, ``Reliable medical

recommendation systems with patient privacy,'' *ACM Trans. Intell. Syst.*

*Technol.*, vol. 4, no. 4, pp. 1\_31, Sep. 2013.

[15] H. Polat and W. Du, ``Privacy-preserving collaborative \_ltering using

randomized perturbation techniques,'' in *Proc. 3rd IEEE Int. Conf. Data*

*Mining*, Nov. 2003, pp. 625\_628.

[16] V. Nikolaenko, S. Ioannidis, U.Weinsberg, M. Joye, N. Taft, and D. Boneh,

``Privacy-preserving matrix factorization,'' in *Proc. ACM SIGSAC Conf.*

*Comput. Commun. Secur. (CCS)*, 2013, pp. 801\_812.

[17] A. Bilge, C. Kaleli, I. Yakut, I. Güne³, and H. Polat, ``A survey of privacypreserving

collaborative \_ltering schemes,'' *Int. J. Softw. Eng. Knowl.*

*Eng.*, vol. 23, no. 8, pp. 1085\_1108, 2013.

[18] X. Zheng and Z. Cai, ``Privacy-preserved data sharing towards multiple

parties in industrial IoTs,'' *IEEE J. Sel. Areas Commun.*, vol. 38, no. 5,

pp. 968\_979, May 2020.

[19] Y. Wang, J. Yu, B. Yan, G. Wang, and Z. Shan, ``BSV-PAGS: Blockchainbased

special vehicles priority access guarantee scheme,'' *Comput. Com-*

*mun.*, vol. 161, pp. 28\_40, Sep. 2020.

[20] S. Liu, J. Yu, Y. Xiao, Z. Wan, S. Wang, and B. Yan, ``BC-SABE:

Blockchain-aided searchable attribute-based encryption for cloud-IoT,''

*IEEE Internet Things J.*, vol. 7, no. 9, pp. 7851\_7867, Sep. 2020.

[21] Z. Cai and X. Zheng, ``A private and ef\_cient mechanism for data uploading

in smart cyber-physical systems,'' *IEEE Trans. Netw. Sci. Eng.*, vol. 7,

no. 2, pp. 766\_775, Apr. 2020.

[22] J. Bethencourt, A. Sahai, and B. Waters, ``Ciphertext-policy attributebased

encryption,'' in *Proc. IEEE Symp. Secur. Privacy (SP)*, May 2007,

pp. 321\_334.

[23] S. Nakamoto and A. Bitcoin. (2008). *A Peer-to-Peer Electronic Cash*

*System*. [Online]. Available: https://bitcoin.org/bitcoin.pdf

[24] A. Gionis, P. Indyk, and R. Motwani, ``Similarity search in high dimensions

via hashing,'' *VLDB*, vol. 99, no. 6, pp. 518\_529, 1999.

[25] B. Yan, J. Yu, Y. Wang, Q. Guo, B. Chai, and S. Liu, ``Blockchainbased

service recommendation supporting data sharing,'' in *Proc. Int.*

*Conf.Wireless Algorithms, Syst., Appl.* Cham, Switzerland: Springer, 2020,

pp. 580\_589.