中俄合作研究情况

我们与俄罗斯工程院副院长/院士、俄罗斯科学院院士 Vladimir Fedorovich Filaretov 教授，自 2009 年就开始会议项目和论文的不间断合作，2021、2024 分别获得国家科技部高端外国专家引进计划和国家自然科学基金中俄国际合作项目(NSFC-RSF)的支持：

● “基于图神经网络的场景建模及其应用研究，”国家科技部高端外国专家引进计划，40.00 万人民币，2021 年 1 月 1 日—2022 年 12 月 31 日（G2021033002L，黄德双）。

● “面向复杂数据场景的高效图神经网络模型的研究”，国家自然科学基金中俄国际合作项目，150 万，2025 年 1 月 1 日-2027 年 12 月 31 日（W2412087，黄德双）.

并经俄罗斯工程院 (RAE) 全体院士的投票，分别于 2022 年和 2023 年获得俄罗斯工程院 Adviser Expert【俄工院顾问专家】和 Corresponding Member【俄工院通讯院士】的二轮选举推荐，并于 2024 年 4 月 19 号经过俄罗斯工程院 (RAE) 全体院士的投票，获得了俄罗斯工程院外籍院士【Full Member，也即 Academician]称号。

■ 中俄团队之间的学术交流

1） 2009年Vladimir Fedorovich Filaretov教授和及其团队Valeriya Gribova教授共同参加了中方负责人发起与组织的国际智能计算学术会议(ICIC：http://ic-icc.cn/2009/Organization.htm)，并担任宣传委员会联合主席，该会议由黄德双教授创立并担任主席。

2） 此后，Valeriya Gribova教授于2010、2013、2019年作为宣传委员会联合主席参加ICIC；于2011、2012、2019-2022年作为程序委员会委员参加ICIC；于2014年作为组织委员会主席参加ICIC；于2015、2016、2020年作为出版委员会联合主席参加ICIC；于2017年作为指导委员会联合主席参加ICIC；于2018年作为Workshop专题委员会联合主席参加ICIC；于2021年作为程序委员会联合主席参加ICIC；于2022年作为奖励委员会联合主席参加ICIC。

3） 2021年Valeriya Gribova教授和Huang De-Shuang教授共同编辑了三篇ICIC2021会议论文集。

（1）Edited Books: De-Shuang Huang, Kang-Hyun Jo, Jianqiang Li, Valeriya Gribova, Vitoantonio Bevilacqua, Intelligent Computing Theories and Application, Lecture Notes in Computer Science (LNCS 12836), Springer, August 2021, ISBN 978-3-030-84521-6.

（2）Edited Books: De-Shuang Huang, Kang-Hyun Jo, Jianqiang Li, Valeriya Gribova, Abir Hussain, Intelligent Computing Theories and Application, Lecture Notes in Computer Science (LNCS 12837), Springer, August 2021, ISBN 978-3-030-84529-2.

（3）Edited Books: De-Shuang Huang, Kang-Hyun Jo, Jianqiang Li, Valeriya Gribova, Prashan Premaratne, Intelligent Computing Theories and Application, Lecture Notes in Computer Science (LNCS 12836), Springer, August 2021, ISBN 978-3-030-84531-5.

4） 2017年9月25日至29日，黄德双教授受Vladimir Fedorovich Filaretov教授和Valeriya Gribova教授邀请参加在俄罗斯符拉迪沃斯托克举办的2017第二届俄罗斯-太平洋计算机技术与应用会议(RPC 2017)，做大会学术报告：“Modeling and analysis of high-throughput transcription factors binding data,” The 2017 2nd Russian-Pacific Conference on Computer Technology and Applications (RPC 2017), Vladivostok, Russia, September 25-29, 2017 (Invited Plenary Speech) (http://www.rpc2017.dvo.ru/).

5）共同发表论文（14篇）

1. Zhi-Peng Li, Si-Guo Wang, Qin-Hu Zhang, Wen-Jian Liu, **Valeriya Gribova, Vladimir Fedorovich Filaretov**, Anthony G. Cohn, De-Shuang Huang Zhi-Peng Li, “Pyramid Graph Pooling Transformer for Graph-level Representation Learning”, IEEE Transactions on Big Data ,, vol. 12, no. 5, pp. 1519-1534, Oct. 2026, doi: 10.1109/TBDATA.2026.3689004.
2. Hailong Su, Zhipeng Li, Chang-An Yuan, **Vladimir F. Filaretov**, De-Shuang Huang. Variational Graph Neural Network Based on Normalizing Flows. IEEE Transactions on Signal and Information Processing over Network. Vol. 11, 2025, pp.177-186. DOI: 10.1109/TSIPN.2025.3530350.
3. Meng Xing, Zhiyong Feng, Yong Su, Changjae Oh, **Valeriya Gribova, Vladimir Fedorovich Filaretoy**, De-Shuang Huang. Spatio-temporal Graph-based Self-labeling for Video Anomaly Detection. Neurocomputing. Vol. 627, 2025, 129576. PP. 1-10(https://doi.org 10.1016/j.neucom.2025.129576).
4. Meng Xing, Zhiyong Feng, Shuang Zhu, Yong Su, V **Valeriya Gribova, Vladimir Fedorovich Filaretoy** D.S.Huang, "Unbiased Spatial–Temporal Atomic Fusion-based Zero-Shot Action Recognition," Information Fusion, Volume 126, 2025, 103633, ISSN 1566-2535.
5. Hai-Long Su, Zhi-Peng Li, Xiao-Bo Zhu, Li-Na Yang, **Valeria Gribova, Vladimir Fedorovich Filaretov**, Anthony Cohn, D.S.Huang, "Variational graph neural network with diffusion prior for link prediction," Applied Intelligence, vol. 55, no. 90, (2025), doi: 10.1007/s10489-024-06063-z.
6. Zhi-Peng Li, Wen-Jian Liu, Xin Sun, Yi-Jie Pan, Valeriya Gribova, Vladimir Filaretov, Anthony G. Cohn, De-Shuang Huang. GPPT: Graph Pyramid Pooling Transformer for Visual Scene. Neurocomputing. Vol. 647 (2025) 130729. PP. 1-12

(https://doi.org/10.1016/j.neucom.2025.130729).

7. Zhi-Peng Li, Hai-Long Su, Xiao-Bo Zhu, **Valeriya Gribova**, **Vladimir Fedorovich Filaretov** and **De-Shuang Huang**, "SSPool: A Simple Siamese Framework for Graph Infomax Pooling," IEEE Transactions on Network Science and Engineering, vol. 11, no. 1, pp. 463-470, Jan.-Feb., 2024, doi: 10.1109/TNSE.2023.3300878.
8. Zhi-Peng Li, Hai-Long Su, Yong-Wu, Qin-Hu Zhang, Chan-Gan Yuan, **Valeriya Gribova**, **Vladimir Fedorovich Filaretov** and **De-Shuang Huang,** "Hierarchical Multi-view Top-k Pooling with Deep Q-networks," IEEE Transactions on Artificial Intelligence, doi: 10.1109/TAI.2023.3334261.
9. Qinhu Zhang, Youhong Xu, Siguo Wang, Yong Wu, Chang-An Yuan, **Valeriya Gribova, Vladimir Fedorovich Filaretov**, and **D.S. Huang**, "Using Fully Convolutional Network to Locate Transcription Factor Binding Sites Based on DNA Sequence and Conservation Information," IEEE/ACM Transactions on Computational Biology and Bioinformatics, vol. 20, no. 5, pp. 2690-2699, 1 Sept.-Oct. 2023, doi: 10.1109/TCBB.2022.3219831.
10. Hai-Long Su, Zhi-Peng Li, Xiao-Bo Zhu, Li-Na Yang, **Valeria Gribova, Vladimir Fedorovich Filaretov**, Anthony Cohn, **D.S.Huang**, "Hierarchical graph neural network based-on semi-implicit variational inference," IEEE Transactions on Cognitive and Developmental Systems , vol. 15, no. 2, pp. 887-895, June 2023, doi: 10.1109/TCDS.2022.3193398.
11. Yong Wu, Xiao Qin, Chang-An Yuan, **Valeriya Gribova, Vladimir Fedorovich Filaretov**, and **D.S.Huang**, "Discriminative local representation learning for cross-modality visible-thermal person re-identification," IEEE Transactions on Biometrics, Behavior, and Identity Science, vol. 5, no. 1, pp. 1-14, Jan. 2023, doi: 10.1109/TBIOM.2022.3184525.
12. Zhen Cui, Zhan-Heng Chen, Qin-Hu Zhang, **Valeriya Gribova, Vladimir Fedorovich Filaretov**, **D.S.Huang**, "RMSCNN: A random multi-scale convolutional neural network for marine microbial bacteriocins identification," IEEE/ACM Transactions on Computational Biology and Bioinformatics, vol. 19, no. 6, pp. 3663-3672, 1 Nov.-Dec. 2022, doi: 10.1109/TCBB.2021.3122183.
13. Qinhu Zhang, Yindong Zhang, Siguo Wang, Zhan-Heng Chen, **Valeriya Gribova, Vladimir Fedorovich Filaretov**, and **D.S.Huang**, "Predicting in-vitro DNA-protein binding with a spatially aligned fusion of sequence and shape," IEEE/ACM Transactions on Computational Biology and Bioinformatics, vol. 19, no. 6, pp. 3144-3153, 1 Nov.-Dec. 2022, doi: 10.1109/TCBB.2021.3133869.
14. ZhiPeng Li, HaiLong Su, XiaoBo Zhu, XiuMei Wei, XueSong Jiang, **Valeriya Gribova, Vladimir Fedorovich Filaretov**, **D.S.Huang**, in IEEE Transactions on Cognitive and Developmental Systems, vol. 14, no. 3, pp. 1198-1207, Sept. 2022, doi: 10.1109/TCDS.2021.3100883.