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Multimodal Visual-Tactile Representation Learning through Self-Supervised Contrastive Pre-Training

Vedant Dave*

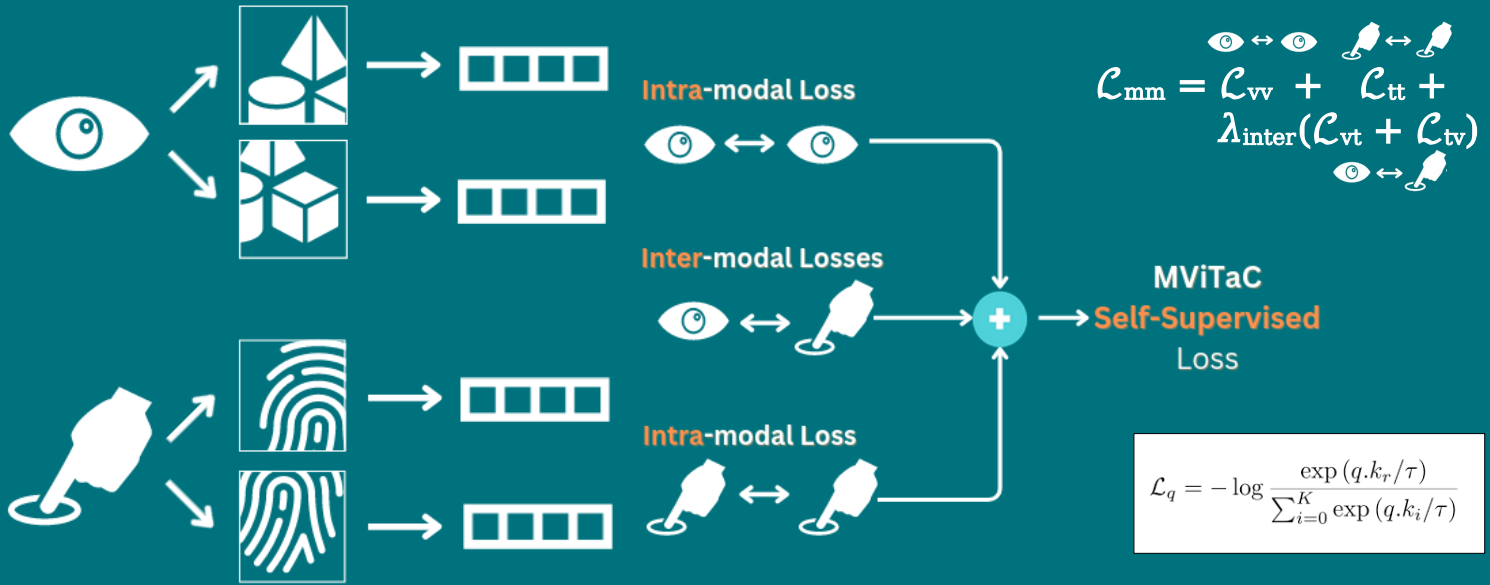
Fotios Lygerakis*

Elmar Rückert

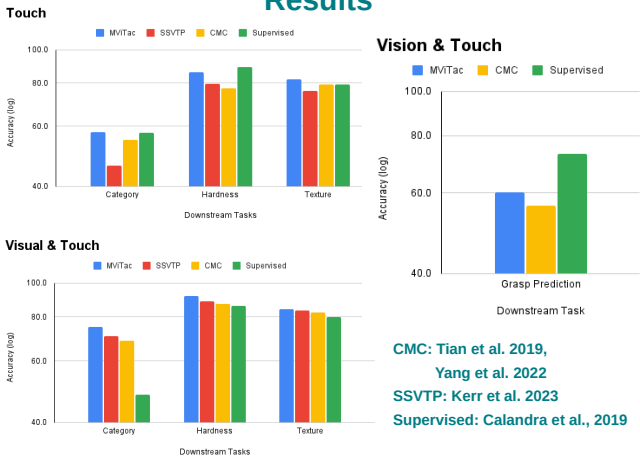
*equal contribution

Chair of Cyber-Physical-System, Montanuniversität Leoben, Austria

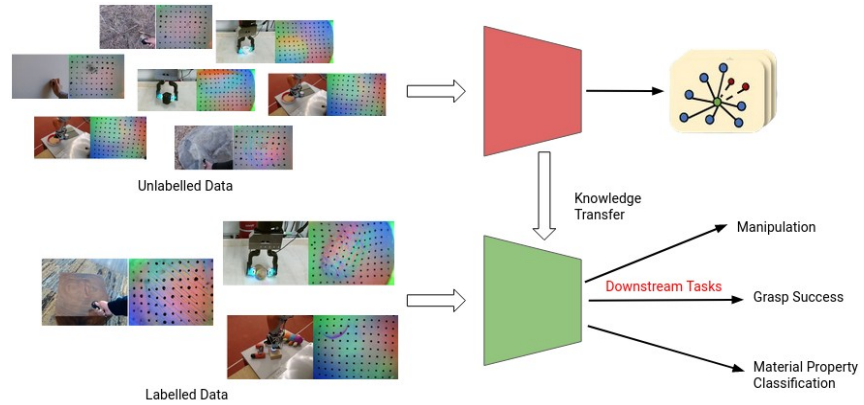
Main Idea: Maximise the agreement of the representations of similar samples from different modalities.



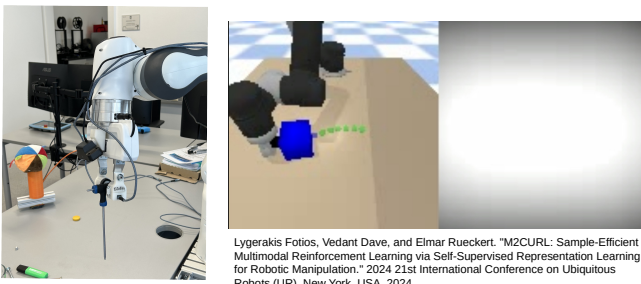
Results



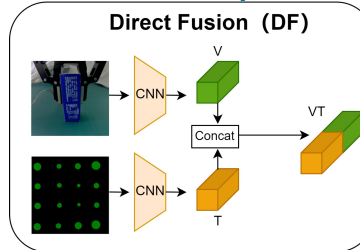
Why is self-supervised learning important?



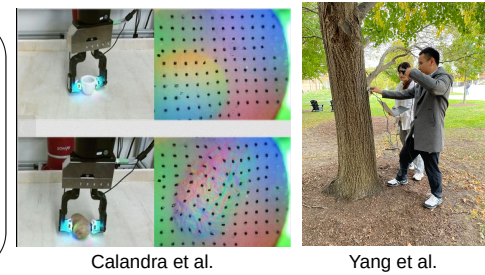
Future Work



Unexplored modality relationships



Data collection is costly!



Vedant Dave*, Fotios Lygerakis*, Elmar Rueckert., "Multimodal Visual-Tactile Representation Learning through Self-Supervised Contrastive Pre-Training." 2024 IEEE International Conference on Robotics and Automation (ICRA), Tokyo, Japan, 2024.



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