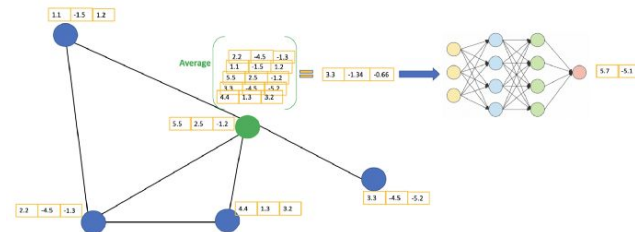
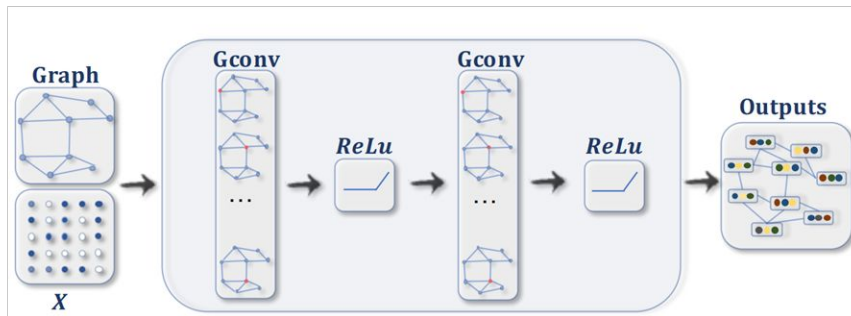


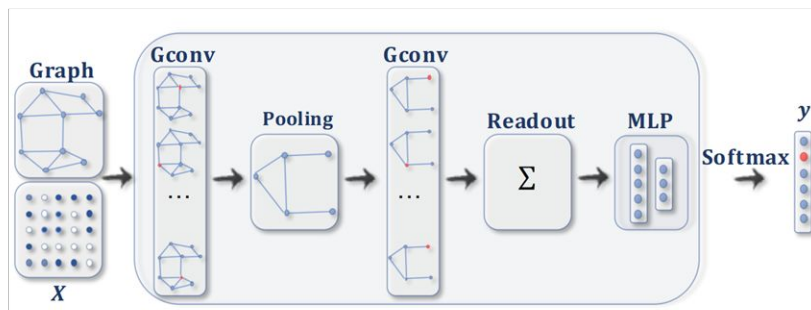
# **Learning Ice Accretion With Graph Neural Networks**

Shumilin Sergei

## Convolutional graph neural networks



## Обучение представлений узлов

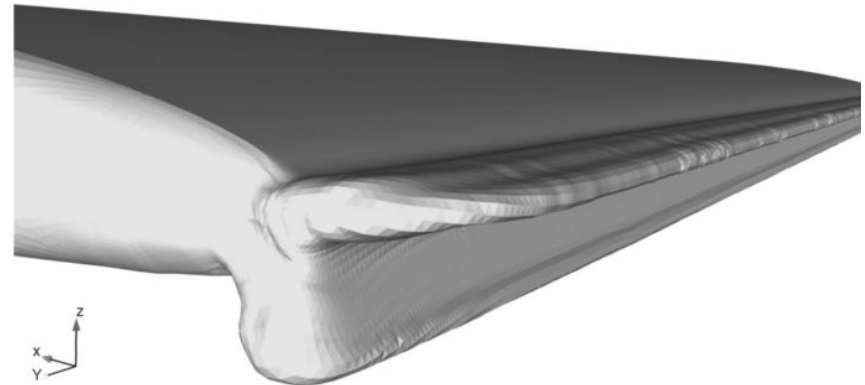
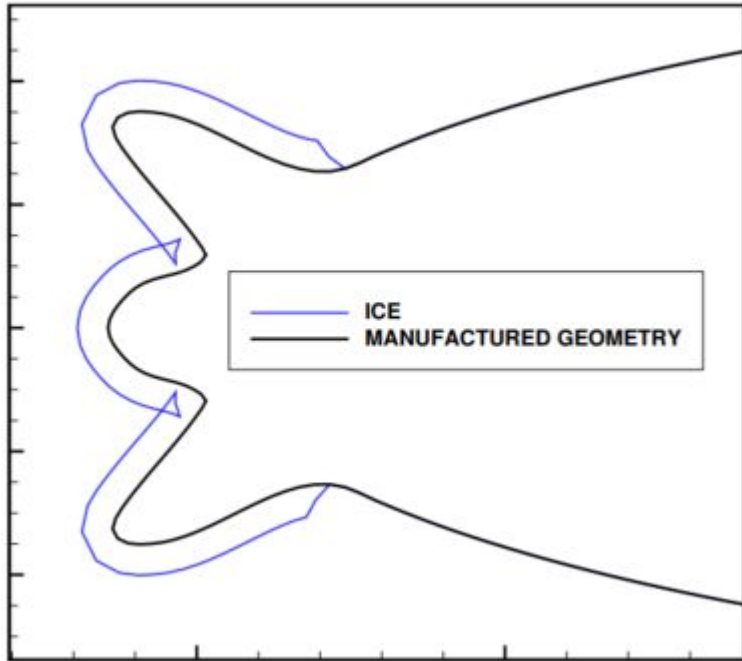


## Классификация графов

$$\mathbf{x}_v^{(\ell+1)} = \mathbf{W}^{(\ell+1)} \sum_{w \in \mathcal{N}(v) \cup \{v\}} \frac{1}{c_{w,v}} \cdot \mathbf{x}_w^{(\ell)}$$

$$\mathbf{x}_v^{(\ell+1)} = \mathbf{W}^{(\ell+1)} \mathbf{x}_v^{(\ell)}$$

A Comprehensive Survey on Graph Neural Networks / Zonghan Wu, Shirui Pan, Fengwen Chen, Guodong Long, Chengqi Zhang, Philip S. Yu

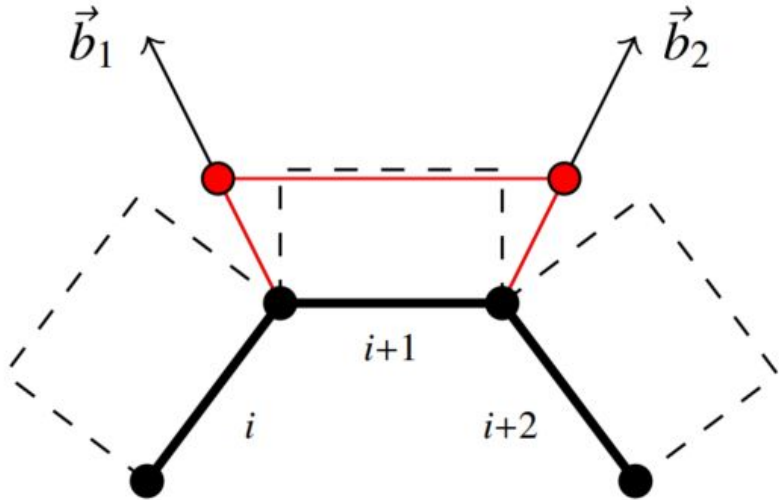


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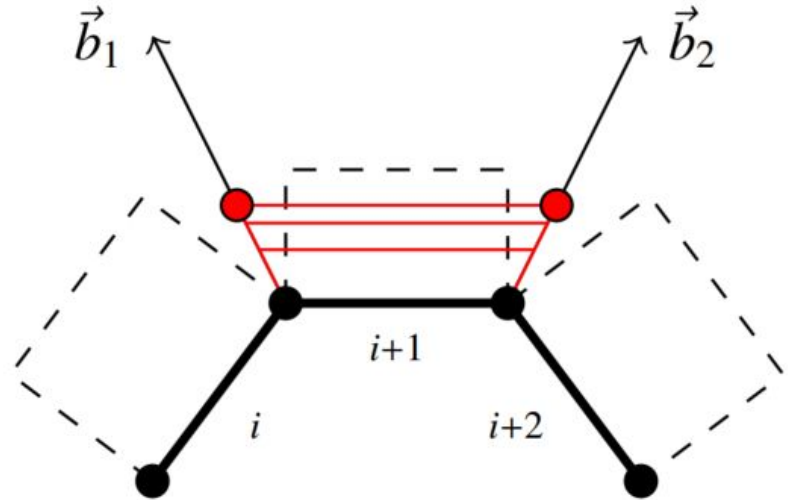
Tong et al. **Three-Dimensional Surface Evolution and Mesh Deformation for Aircraft Icing Applications**

S. Bourgault-Côté ***Multi-Layer Icing Methodologies for Conservative Ice Growth***

# Методы перестроения поверхности



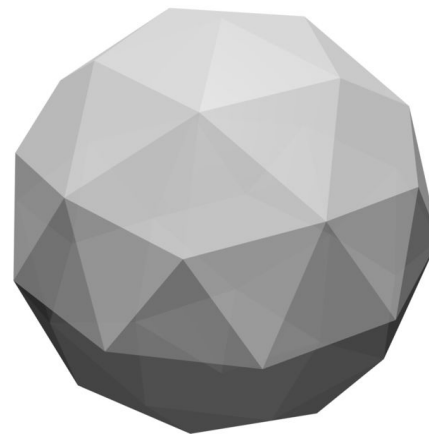
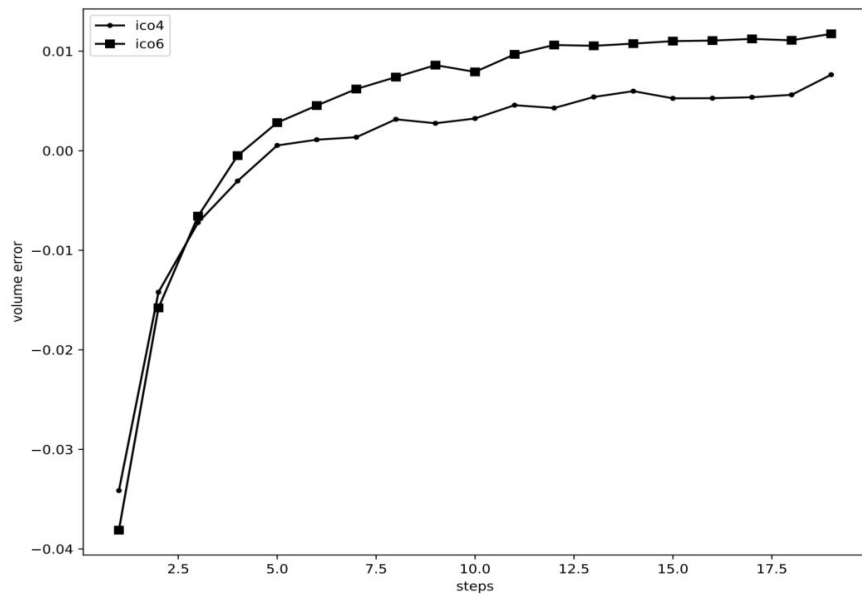
(a) Direct geometry evolution.



(b) Sub-iteration geometry evolution.

S. Bourgault-Côté *Multi-Layer Icing Methodologies for Conservative Ice Growth*

# Ошибка в объеме



# Результаты

