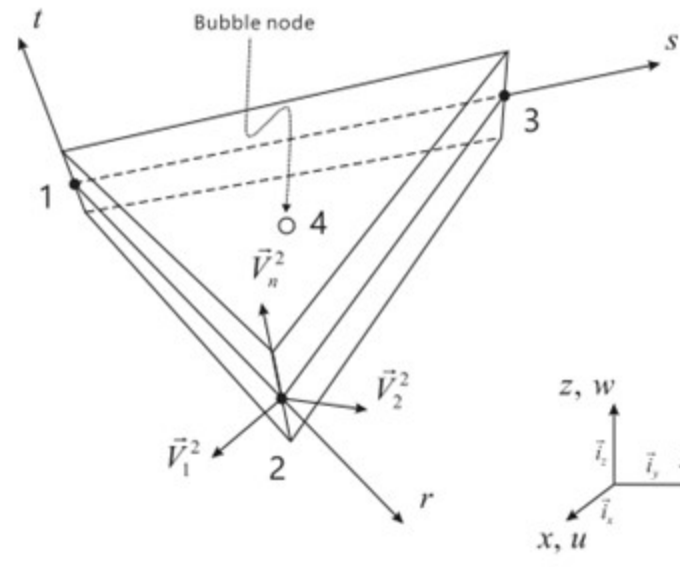


Finite Element Method

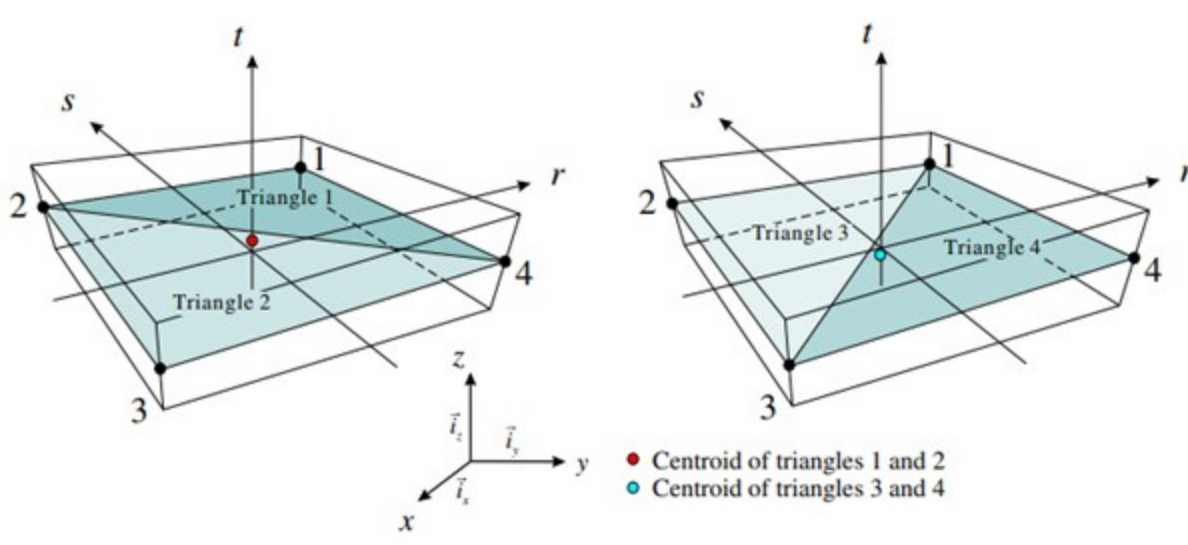
CMSS Computational Mechanics and Structural Systems Lab
 Professor Phill-Seung Lee

Continuum mechanics based shell elements

MITC3+ shell finite element Youngyu Lee (2014)

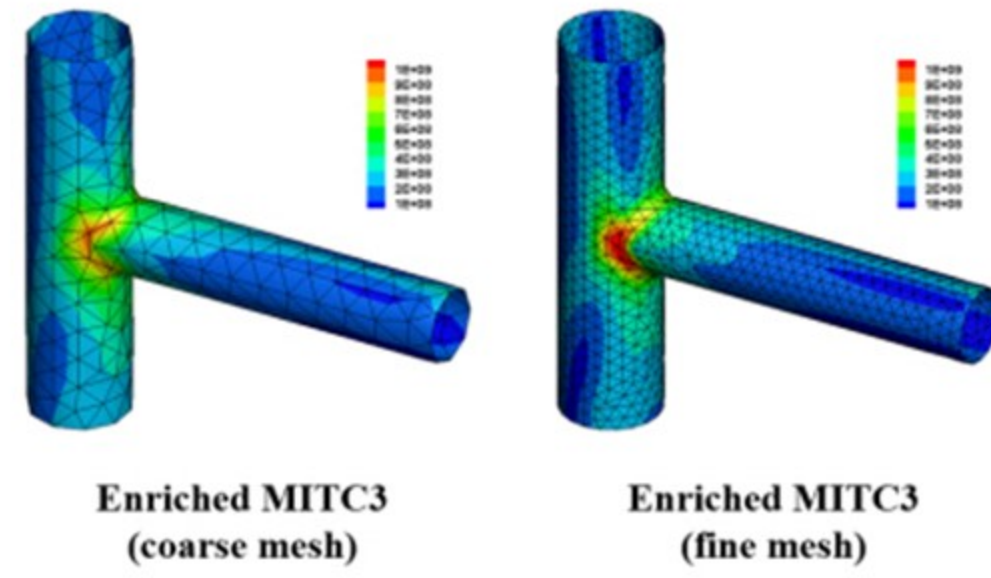


MITC4+ shell finite element Yeongbin Ko (2016)



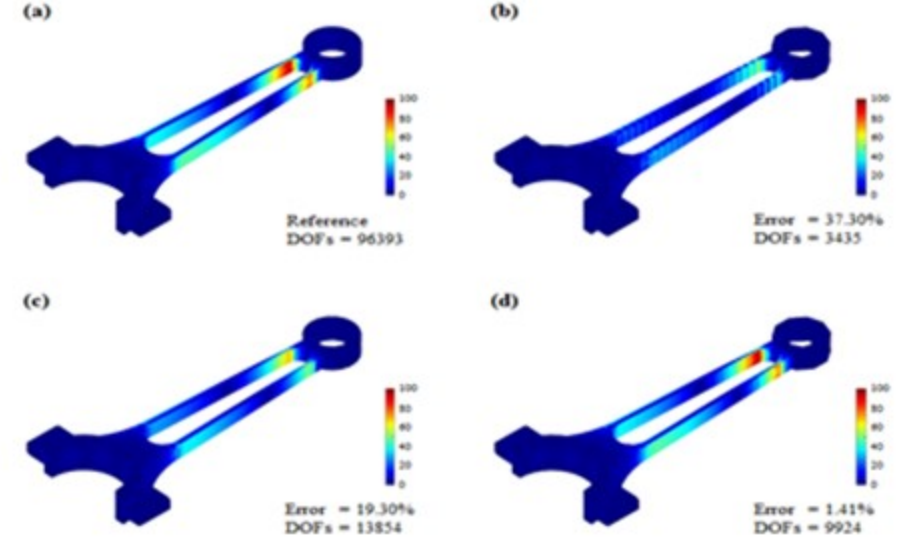
Enriched finite element

Enriched shell finite elements Hyungmin Jun (2015)



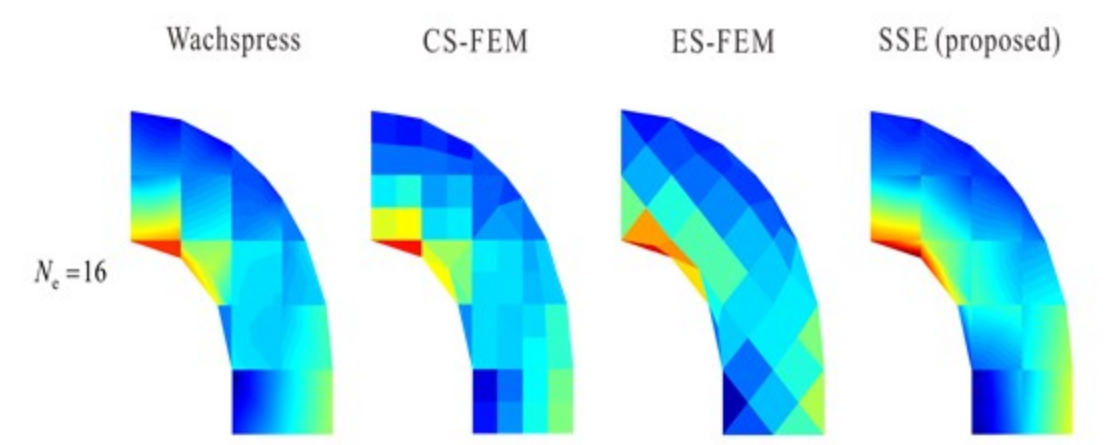
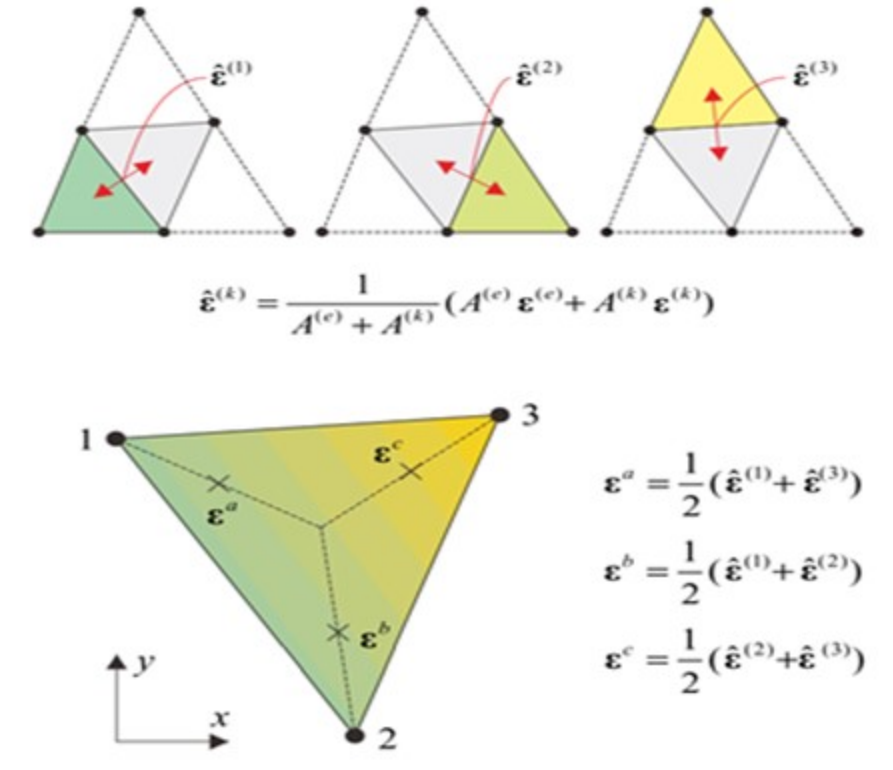
Enriched solid finite elements

San Kim (2019)



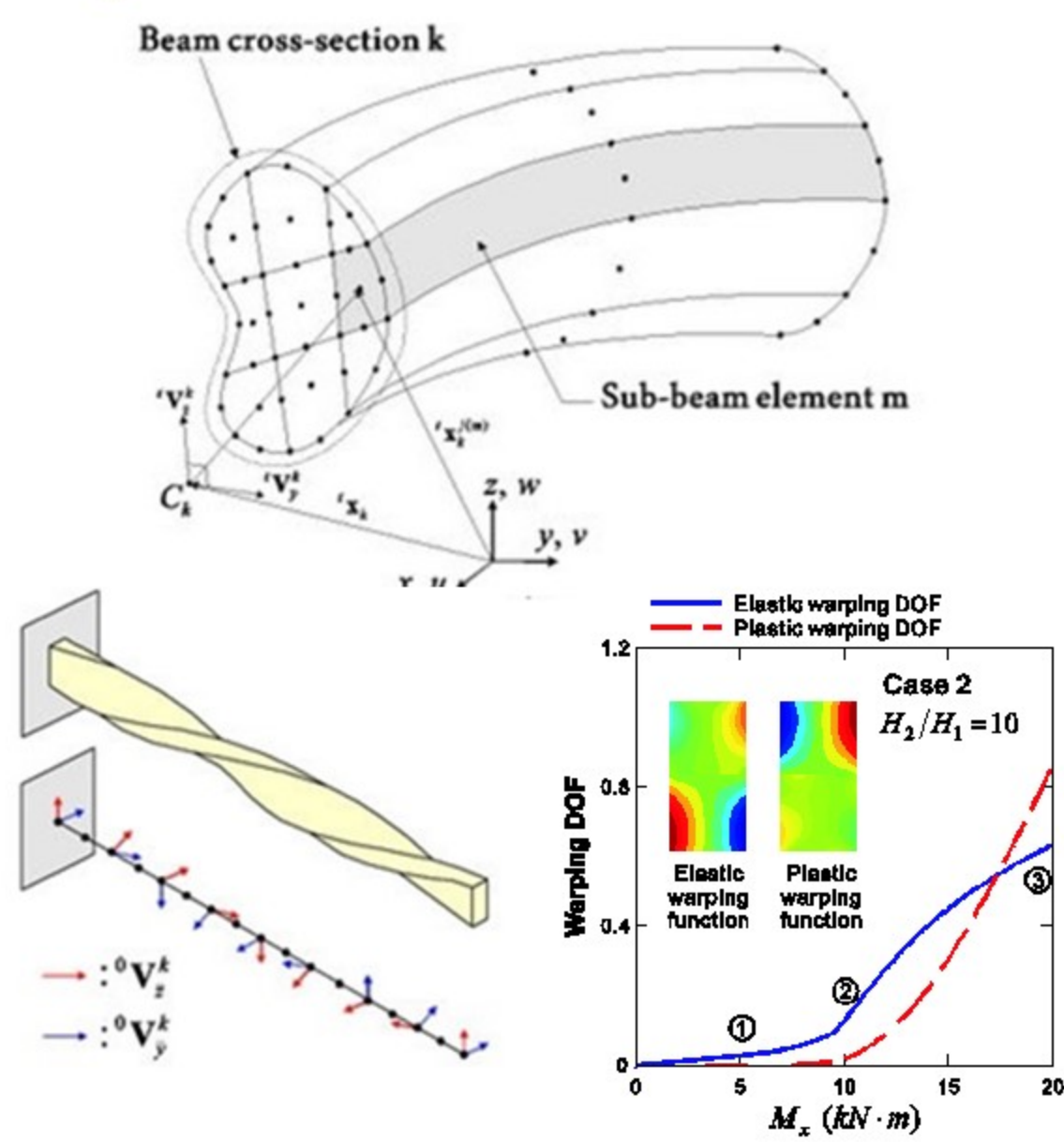
Strain-smoothed element method for solid and shell finite elements

Chaemin Lee (2020), Hoontae Jung (2021)



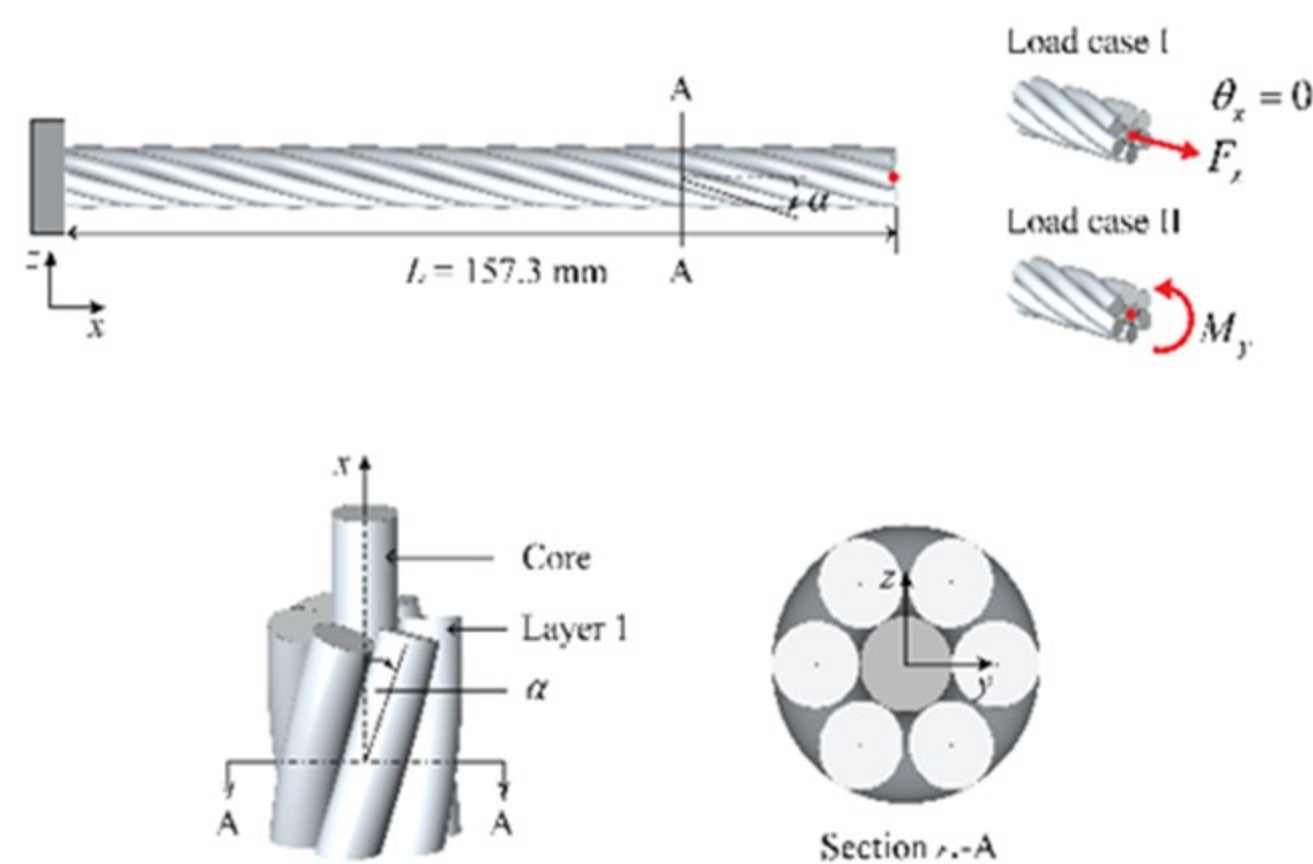
Continuum mechanics based beam elements for linear and nonlinear analysis

Kyungho Yoon (2015)



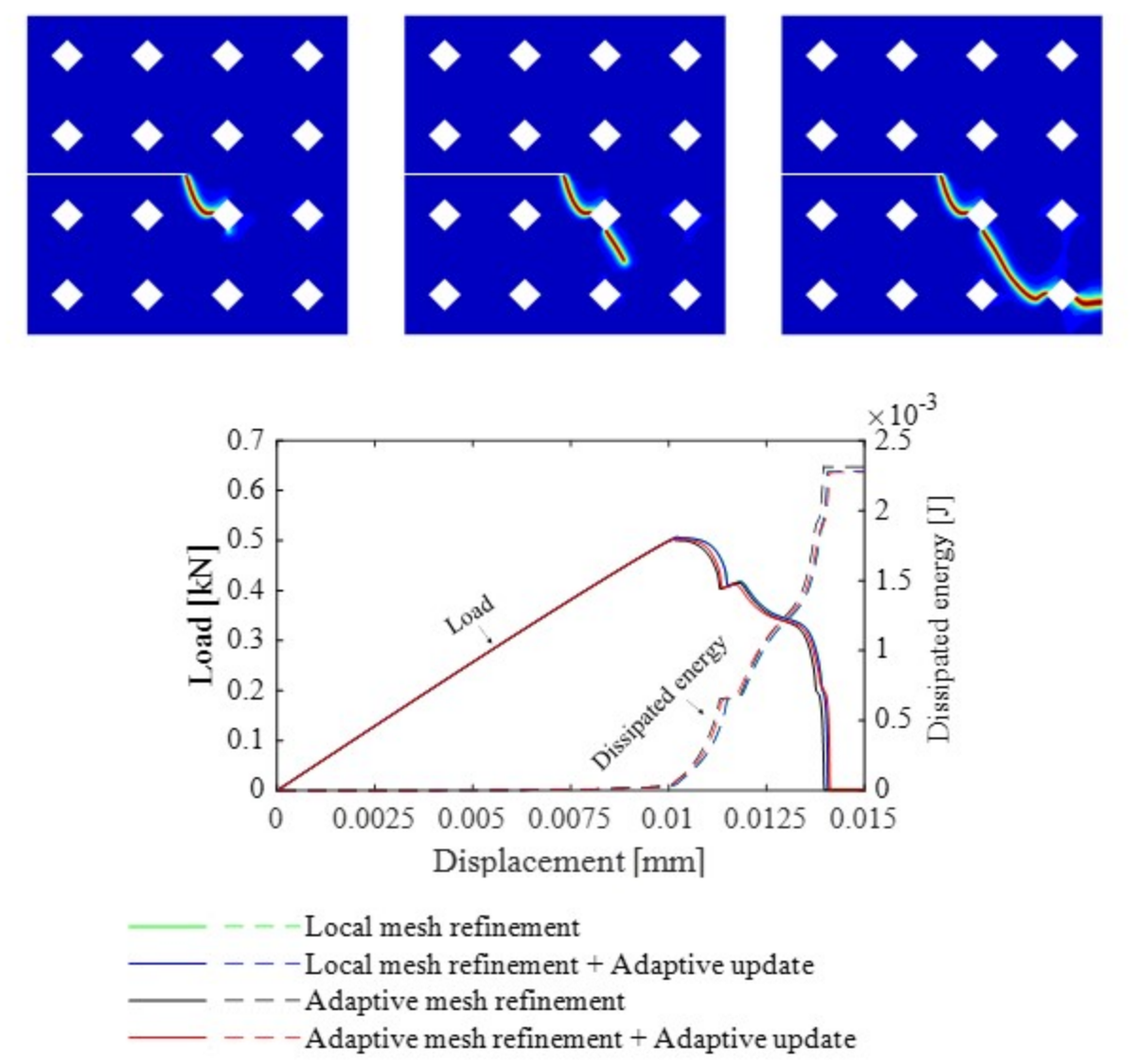
Continuum mechanics based beam elements for linear and nonlinear analyses of multi-layered composite beams and helically stranded cables

Hyo-Jin Kim (2020)



Improving the computational efficiency of the phase field model

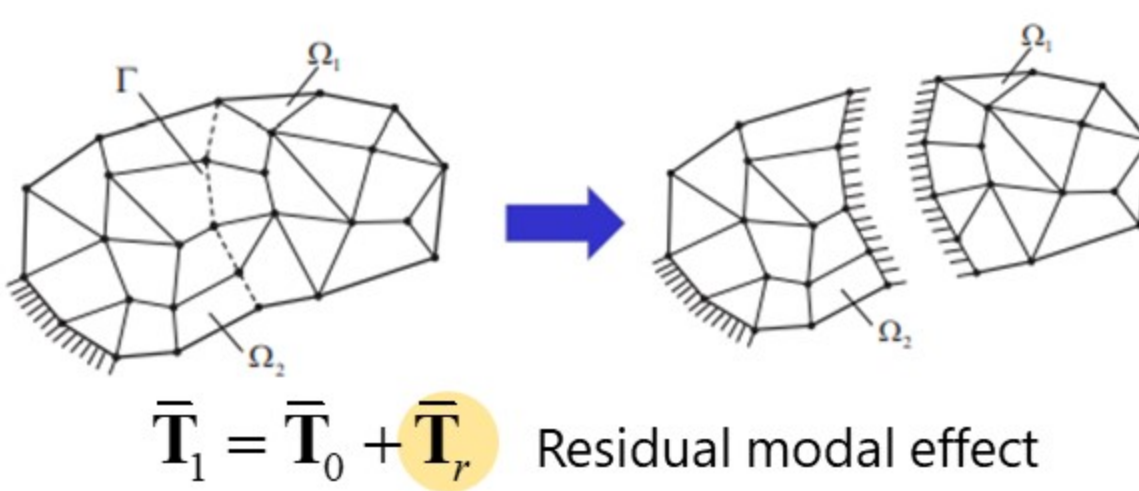
Gihwan Kim (2021)



Model reduction methods

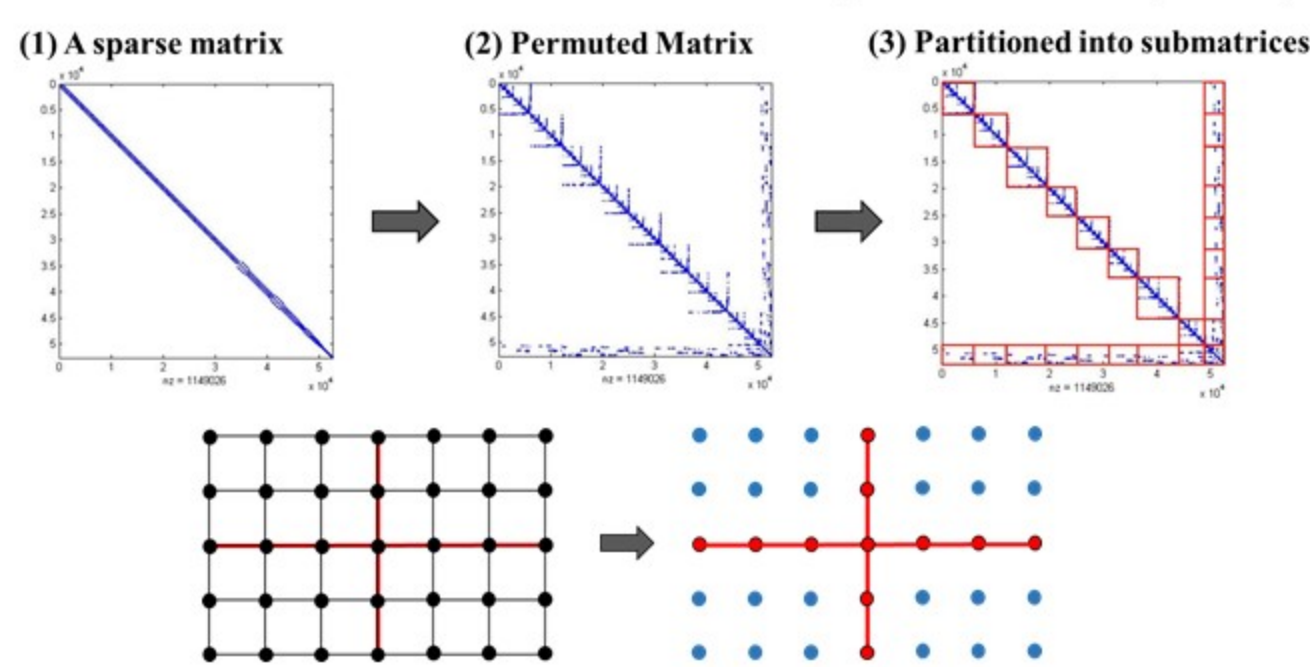
Enhanced Craig-Bampton method

Jin-Gyun Kim (2014)



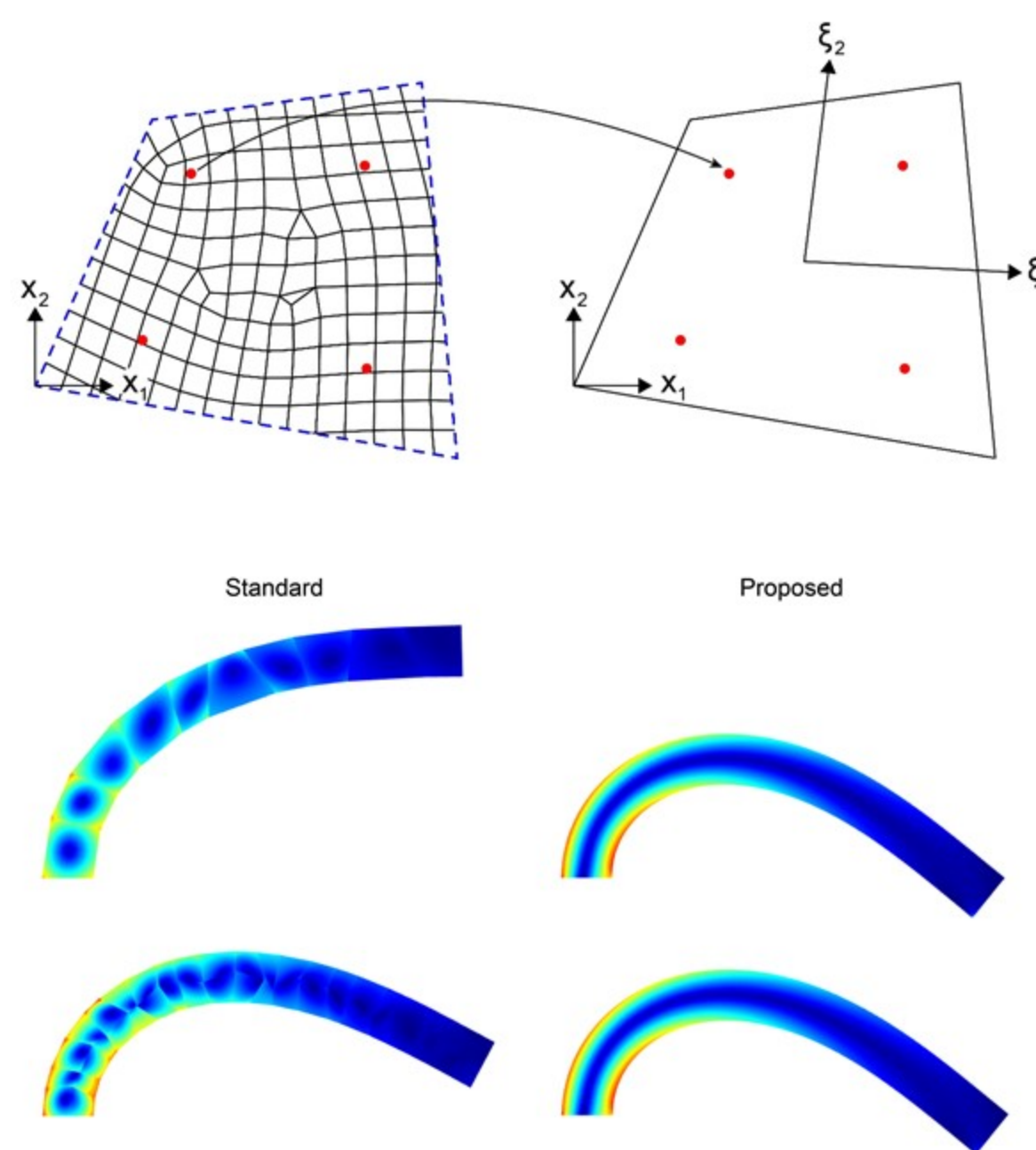
Algebraic dynamic condensation method

Seung-Hwan Boo (2016)



Nonlinear model reduction method

Cheolgyu Hyun (2021)



Self-updated four-node finite element using deep learning

Jaeho Jung (2021)

