Research report 2020
Yuki Ueda

Summary

1. Investigate the traffic flow model.

2. Perform mathematical analysis for the finite element method which applies NURBS.

3. Perform numerical computation for the total variation flow

Publication

1. Y. Ueda*, Y. Otoguro, K. Takizawa and T. E. Tezduyar. Element-Splitting-Invariant Local-Length-Scale Calculation in B-Spline Meshes for Complex Geometries. Mathematical Models and Methods in Applied Sciences (2020)

Presentation

1. Y. Giga and Y. Ueda, Numerical computations of split Bregman method for fourth order total variation flow, The 45th Sapporo Symposium on Partial Differential Equations, online, August 2020.

2. Y. Giga and Y. Ueda, Numerical computations of split Bregman method for fourth order total variation flow, Surface and Interface Dynamics, online, July 2020.