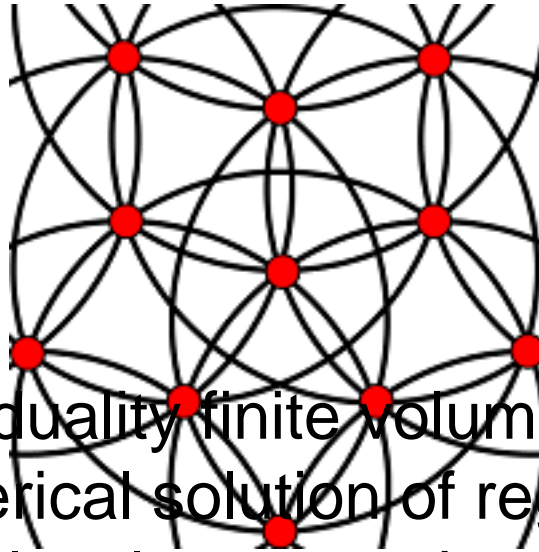


# CSASC 2013



Contribution ID : 61

## Discrete duality finite volume scheme for numerical solution of regularized level set equation.

### Content :

Discrete duality finite volume (DDFV) scheme established in recent years for elliptic problems is used for solving regularized level set equation.

Semi-implicit DDFV numerical scheme for the solution of the regularized curvature driven level set equation is derived in 2D and 3D.

Stability and convergence of the numerical solution to the weak solution is proved in 2D.

Numerical experiments in 2D and 3D concerning accuracy and experimental order of convergence for presented schemes are included.

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**Session classification** : --not yet classified--

**Track classification** : Numerical Methods for Partial Differential Equations

**Type** : Oral presentation