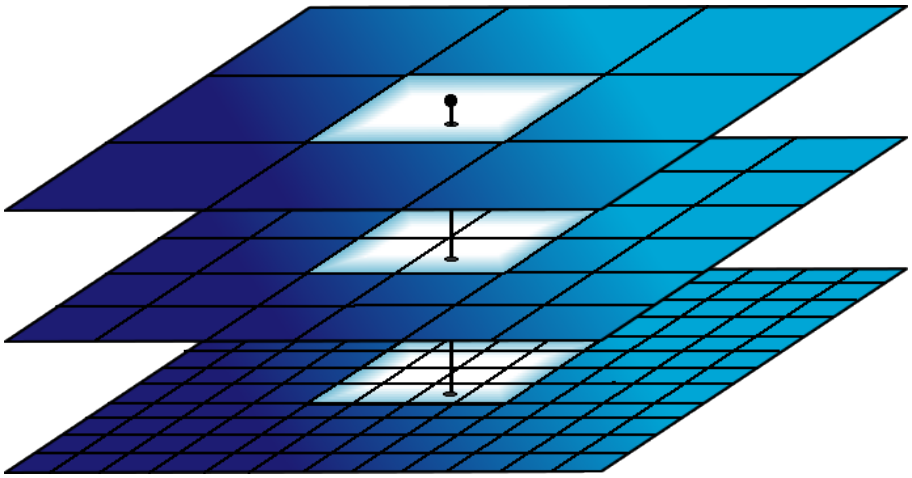
SIAM Student Chapter Delft

Workshop Day 2018

May 30, 2018

Multilevel and Multigrid Methods



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Program

The Workshop day 2018 on **Multilevel and Multigrid Methods** takes place on May 30th at the Faculty of Electrical Engineering, Mathematics and Computer Science (EEMCS) of TU Delft.

The day program takes place at **Van der Poelzaal** (**LB.01.220**).

09:45-10:00		Arrival Coffee/Tea
10:00-10:10		Welcome President SIAM SC Delft
10:10-10:50	H. Hajibeygi	**Multilevel Keynote lecture:** *Multiscale Method for Deformable Porous Media*
10:50-11:15	M. HosseiniMehr	*Algebraic dynamic multilevel method for multiphase fluid flow in porous media with embedded discrete fracture model*
		Coffee Break
11:30-12:10	C.W. Oosterlee	**Multigrid Keynote lecture:** *Aspects of multigrid*
12:10-12:35	R. Tielen	*Efficient Multigrid based methods for Isogeometric Analysis*
		Lunch Break and Group Picture
14:00-14:25	P. Kumar	*A multigrid multilevel Monte Carlo method for transport in the Darcy-Stokes system*
14:25-14:50	P. Robbe	*An Overview of Multilevel Monte Carlo Techniques for Solving PDEs with Random Coefficients*
		Coffee Break
15:05-15:30	M. Gerritsma	*The discrete Steklov-Poincare operator using dual polynomials*
15:30-15:55	F. de Prenter	*Robust and Scalable Iterative Solvers for Immersed Finite Element Methods*
		Closing Remarks
16:00-17:00		Drinks/Snacks

In the evening we will organize a BBQ (starting at 17:00), which will take place at **Freezone B**.