CS/MATH 4414 SPRING 2018

MW 14:30 SURGE 109 CRN 19573/4





ALGORITHMS

B-Splines
Nonlinear equations
Quasi-Newton methods
Homotopy methods
Constrained optimization
Sparse iterative methods
Approximation theory



Parallel architecture
Shared memory
Distributed memory
SIMD (Cray, GPGPUs)
Exascale and beyond

Fortran 2008 MPI-2 Mathematica VTDIRECT95 QNSTOP ÅCM TOMS TEX HOMPACK90

APPLICATIONS

Depending on students' background and interests

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