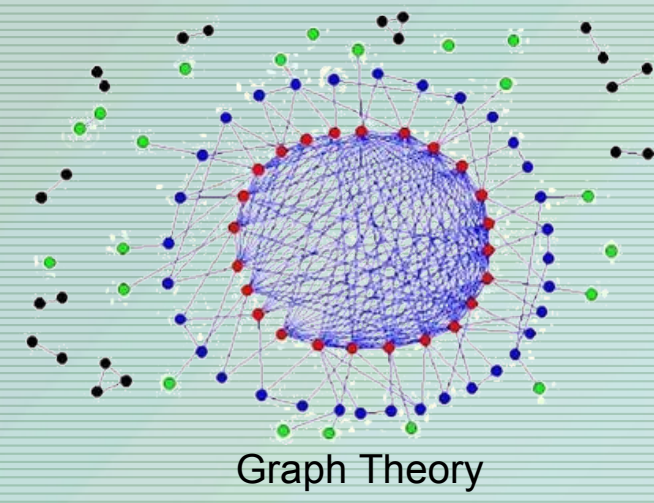


Research Areas

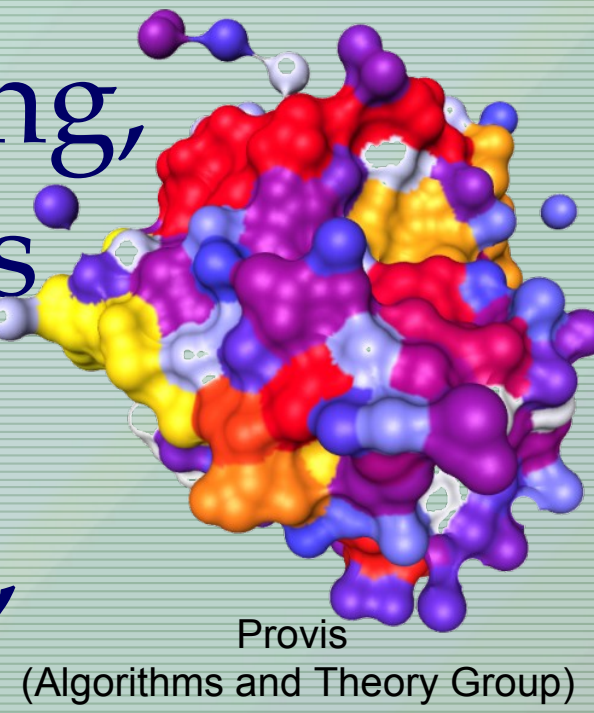


THEORETICAL COMPUTER SCIENCE

Algorithms, Graph Theory, Coding Theory, Cryptography, Security, Computational Geometry, Computational Topology, Combinatorial Geometry, Formal Methods, Automated Verification, Algorithmic Algebra, Algorithmic Geometry

COMPUTER SYSTEMS

Architecture, Power-aware Computing, Operating Systems, Storage Systems, Database Systems, Networks, Distributed Computing, Compilers, Programming Languages, Software Design and Analysis, Software Engineering, Graphics and Visualization



INTELLIGENT SYSTEMS

Pattern Recognition, Data Mining, Machine Learning, Convex optimization, Game Theory, Mechanism Design, e-Commerce, Social Networks, Stochastic Systems and Optimization, Cognitive Systems

Research Labs

- Algorithmic Algebra Lab
- Algorithms and Verification Lab
- Compilers Lab
- Computer Architecture Lab (SERC)
- Computer Architecture and Systems Lab
- Database Systems Lab (SERC)
- Distributed Computing Lab
- Electronic Commerce Lab
- High Performance Computing Lab (SERC)
- Informatics Lab
- Machine Learning Lab
- Microprocessor Applications Lab (CEDT)
- Programming Languages Lab
- Stochastic Systems Lab
- Visualization and Graphics Lab

PhD

CSA's Doctoral Program has 63 students and has produced India's finest computer science researchers over the years.

MSc (Engg)

CSA's MSc (Engineering) program has 30 students and offers an attractive research intensive program for BE/BTech/MSc graduates.

ME (CSE)

CSA's ME program in Computer Science and Engineering is the number #1 ME program in computer science in India and has a strong research focus.

ME (SSA)

CSA and the Department of Electrical Engineering of IISc offer a unique ME program in Systems Science and Automation (SSA) which has all the rigorous ingredients for contemporary trends in Computer Science and Automation.

ERP (Research)

CSA offers an External Registration Program to pursue PhD and MSc (Engg), open to employees of R&D organizations, Global Companies and Engineering College Teachers.

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