

Department of Computer Science and Automation Indian Institute of Science Bangalore, India



Enabling India's excellence in Computer Science and Automation

Research@CSA

Theoretical Computer Science

Algorithms, algorithmic algebra, random projections, graph theory, combinatorial geometry, computational geometry, computational topology, coding theory, cryptology, logic, formal verification.

Computer Systems

Computer architecture, multi-core systems, parallelization, embedded systems, energy aware computing, compilers, operating systems, storage systems, database systems, distributed computing, cloud computing, systems security, mobile and wireless systems, cyber-physical systems, performance modeling, graphics, visualization, program analysis, software engineering.

Intelligent Systems

Pattern recognition, machine learning, convex optimization, graphical models, soft computing, data mining, information retrieval, bioinformatics, social network analysis, network science, reinforcement learning, stochastic control and optimization, stochastic simulation, electronic commerce, game theory, auctions and mechanism design, cognitive systems.

Accomplished Faculty and Talented Students

CSA faculty members include fellows of IEEE and national academies, and winners of JC Bose fellowship, Bhatnagar prize, faculty awards from global companies, young scientist awards, and best paper awards. The department attracts the best of students from all over India.

Fine Track Record in Research

Research papers by CSA authors are published in leading conferences and journals, and are extensively cited. CSA is currently recognized as a UGC Centre for Advanced Study (CAS), and is supported by the DST FIST (Fund for Infrastructure in Science and Technology) program.

Collaborative Projects

CSA aggressively pursues collaborative research projects with CS Research Labs and IT Giants including AOL, GM R & D, IBM, Infosys, Intel, MindTree, MSRI, NetApp, SAP, Xerox, Yahoo!, etc.

Influential Alumni and Entrepreneurship

The CSA alumni include world leaders in academic and research institutions, Industry CEOs, CTOs, and outstanding entrepreneurs. Cellstream, Encore, Integra Micro Systems, Ittiam, MyBantu, Picopeta Simputers, Strand Life Sciences, Suryasoft, and a host of other companies have been created by CSA faculty and alumni.

Opportunities @ CSA

Doctoral Program CSA currently has over 80 Ph.D. students and has produced some of India's finest computer science researchers over the years.

M.Sc. (Engineering) Program This program offers an attractive research intensive program for BE/BTech/M.Sc. graduates

M.E. (CSE) Program Flagship M.E. program of CSA, with a strong research focus

M.E. (SSA) Program A unique blend of CS and Systems Science, offered jointly with the Department of Electrical Engineering

Deadline for applying to the above programs: March 18, 2011

Post-Doctoral/ Research Associate Fellowships The department invites accomplished Ph.D. graduates to apply for post-doctoral fellowships/ research associate positions, including the IISc centenary postdoc positions.

External Research Program (ERP) This program is open to employees of R & D organisations, global companies and engineering college teachers to pursue a Ph.D. degree.

Quality Improvement Program (QIP) This program is open to faculty members of AICTE affiliated engineering college to pursue a Ph.D. degree or an M.E. degree.

UGC Research Internship Summer Internships are available for 2nd and 3rd year BE/BTech graduates. Deadline for applications February 28, 2011

Join CSA and explore the frontiers of computer science and automation



Visit <http://www.csa.iisc.ernet.in> for more details
E-mail: office@csa.iisc.ernet.in