

Strategy Statements for the Dept of Mathematics and Systems Analysis

Research

The Department

- is truly renowned for its research excellence
- is comprised of well-established research groups with diversified and balanced interests
- provides doctoral education on a broad range of topics that promise far-reaching results
- actively participates in international research networks
- has a wide array of externally funded research projects
- fosters academic careers characterised by long-term excellence and scientific impact
- appreciates sustained and persistent research efforts that involve significant risks
- provides first-rate administrative and research support

Internationalisation

The Department

- benefits from strong strategic alliances with leading departments and research groups
- has a continuous stream of visible international research projects
- offers a strong platform for doctoral students to build international careers
- recruits all of its research and teaching faculty internationally

Education and learning

The Department

- excels in teaching undergraduate, graduate, and doctoral students
- embraces a learning-centred culture with a strong focus on student progress
- pioneers the development and practice of innovative teaching methods
- becomes a leader in computer aided teaching and learning
- evaluates all its courses systematically and uses these evaluations to continuously improve its teaching
- draws upon its research to enrich all its teaching with inspiring and timely real-life examples
- collaborates closely with other SCI Departments and Aalto Schools
- is an active and sought-after partner in international exchange programmes
- has an excellent student-teacher ratio

Societal impact

The Department

- ensures that all engineers who graduate from Aalto University have sufficient skills in mathematics
- trains experts who have the ambition and skills to address the needs of the society
- employs many faculty with influential positions in learned societies and other scientific communities
- produces scientific knowledge relevant to society
- promotes fruitful interactions between students, faculty, alumni and industry
- fosters the visibility and recognition of mathematics in Finland

Human resources

The Department

- grows to a size which is comparable to that of its international benchmarks
- proactively fosters the careers of its personnel
- embraces diversity and equal opportunities
- seeks to ensure that its decision processes are transparent
- makes every effort to ensure the well-being of all its employees