



# Escuela Técnica Superior de Ingeniería y Sistemas de Telecomunicación



Universidad Politécnica de Madrid

## SEMINARIOS AVANZADOS DE INVESTIGACIÓN

### Some recent problems on symbolic computation. Applications.

#### Lecturers:

**Prof. Dr. Juana Sendra (UPM) and Prof. Dr. Alberto Lastra (U. Alcalá)**

#### Contents

The course aims to provide introductory concepts, results, and algorithms on symbolic computation and its applications to some specific problems related to cryptography, systems of equations, differential equations, partial differential equations, etc.

The basic idea of the course is to learn the new and powerful algorithms in symbolic computation and illustrate them by applications.

Theoretical results will be applied to specific problems with Maple software.

#### Language

English

#### Workload

Master students attending the event will get 1 ECTS. They should perform an additional home work.

Bachelor students will get 0.5 ECTS.

#### Timetable

Friday 2<sup>nd</sup> December: 15:30h - 19:30h

#### Room

Sala de Grados (A3004) – Mathematics Lab

#### Registration

This seminar is mainly aimed at Master students and at the last two years of undergraduate.

Inscriptions should be done at the Master program secretary (room A6104), Julia Barahona ([actividades@etsist.upm.es](mailto:actividades@etsist.upm.es)) or at the event room.