



Universidad
de Alcalá



SYMBOLIC AND NUMERIC ALGORITHMS AND APPLICATIONS TO CURVES AND SURFACES

Código
683

ASYNACS

RESEARCH AREA

Experimental Sciences
Technological Sciences

COORDINATOR

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KEYWORDS

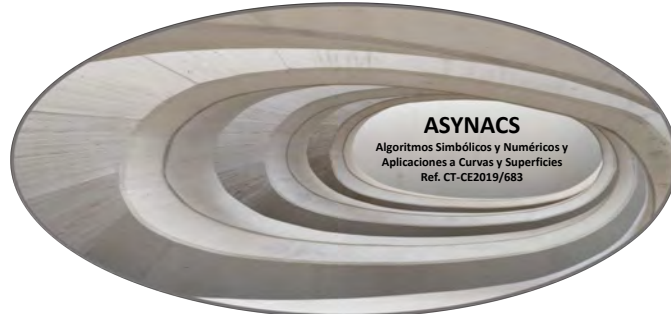
Algorithms,
Symbolic,
Numerical,
Geometry,
Algebra,
Interpolation,
Geometric design

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OBJETCT/AIM

The fundamental objective of the group is the study of mathematical problems from a symbolic or a numerical-symbolic algorithmic approach, with special emphasis on geometric issues as well as their applications. It is also an objective of the group to create a link between teachers in the Mathematics department that allows knowing what research is being done and fosters mutual collaboration as well as giving visibility to that research in as many forums as possible (departmental, university, academic, scientific).

LINES OF RESEARCH

- Numerical linear algebra
- Algorithms for curves and surfaces and applications
- Applications in Computer Aided Geometric Design (CAGD)
- Development of approximate algorithms
- Development of numerical algorithms
- Development of symbolic algorithms
- Effective algebraic geometry
- Interpolation
- Curve and surface theory

SERVICES OFFERED

- Development of mathematical and algorithmic foundations as well as implementations in mathematical software

MARKETABLE RESULTS

