xcmodel: an aCADemic system

G. Casciola[*] S. Morigi[†]

Unità operativa di Bologna

xcmodel is a CAD system realized and usable in an academic environment. It integrates four packages: a 2D and a 3D modeller, an object composer and a realistic scene renderer; these subsystems can be regarded as being in constant evolution i.e. a continuous work in progress.
The system summarises our knowledge and experience in geometric modelling and NURBS curves and surfaces acquired over ten years of research.
xcmodel and its subsystems were designed to represent a research and a teaching laboratory to experiment and learn; it is an ideal environment to develop, perfect and compare methods and algorithms in geometric modelling and graphic visualization.

[*]Dipartimento di Matematica, Università di Bologna, `casciola@dm.unibo.it`.
[†]Dipartimento di Matematica, Università di Bologna, `morigi@dm.unibo.it`.