



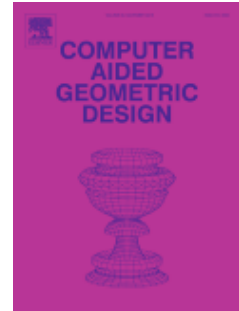
# COMPUTER AIDED GEOMETRIC DESIGN

An International Journal

## AUTHOR INFORMATION PACK

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### DESCRIPTION

The journal *Computer Aided Geometric Design* is for researchers, scholars, and software developers dealing with **mathematical** and **computational** methods for the description of **geometric objects** as they arise in areas ranging from CAD/CAM to robotics and scientific visualization. The journal publishes original research papers, survey papers and with quick editorial decisions short communications of at most 3 pages. The primary objects of interest are **curves**, **surfaces**, and **volumes** such as splines (NURBS), **meshes**, **subdivision surfaces** as well as **algorithms** to generate, analyze, and manipulate them. This journal will report on new developments in CAGD and its applications, including but not restricted to the following:

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The aim is to collect and disseminate information on **computer aided design** in one journal. To provide the user community with methods and algorithms for representing curves and surfaces. To illustrate **computer aided geometric design** by means of interesting applications. To combine curve and surface methods with computer graphics. To explain scientific phenomena by means of computer graphics. To concentrate on the interaction between theory and application. To expose unsolved problems of the practice. To develop new methods in **computer aided geometry**.

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The aim is to collect and disseminate information on computer aided geometric design in one journal. To provide the user community with methods and algorithms for representing geometric objects. To illustrate computer aided geometric design by means of interesting applications. To combine curve and surface methods with computer graphics. To explain scientific phenomena by means of visualization. To concentrate on the interaction between theory and application. To expose unsolved problems of the practice.

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Beeler, T., Bickel, B., Beardsley, P., Sumner, B., Gross, M., 2010. High-quality single-shot capture of facial geometry. SIGGRAPH29 (3), 40:1-40:9.

Beeler, T., Hahn, F., Bradley, D., Bickel, B., Beardsley, P., Gotsman, C., Sumner, R.W., Gross, M., 2011. High-quality passive facial performance capture using anchor frames. SIGGRAPH, 75:1-75:10.

Berry, M.W., Browne, M., Langville, A.N., Pauca, V.P., Plemmons, R.J., 2007. Algorithms and applications for approximate nonnegative matrix factorization. *Comput. Stat. Data Anal.* 52 (1), 155-173.

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