ledas press-release

LEDAS license Academic version of geometric solvers LGS 2D/3D to Northwestern Politechnical University, China.

Novosibirsk, Russia
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LEDAS Ltd. (www.ledas.com), an independent software provider of computational components for PLM and ERP, announces of licensing policy of its 2D and 3D geometric solvers to College of Astronautics of Northwestern Politechnical University(NWPU), China. Academic Licensing approach gives unique opportunity for researches and students to access parameterization technology.

'We have heard that your company had launched an academic licensing program for LGS2D/3D. It is attractive and we want to join this program As a part of ongoing research, we need to develop a CAD application based on solid modeling engine and incorporating a geometric constraint solver. We recently came across of Ledas products, the LGS 2D/3D solver" says Jingshi, Liu, a teacher of College of Astronautics.

About the LGS family solvers

LGS 2D/3D is a cross-platform software. It is set of libraries that runs under all Windows, Linux, *BSD, AIX and other OS. Being written itself in C++, LGS has a C-based API that allows one to integrate it into a broad range of software applications (even written not in C/C++).

A sample test application for LGS called Lege'n'd is also available as part of the Evaluation version of LGS 2D/3D. They were created with the Open CASCADE open-source framework. The Lege'n'd 2D and 3D applications can be used to test the entire functionality of the LGS 3D without the need to integrate the solver into other software packages. A set of representative examples for Lege'n'd 2D/3D is also supplied.

LEDAS Geometric Solvers 2D/3D support creation and modification of the geometric models by means of (explicit or implicit) constraints. Typical geometric objects are points, lines, circles, planes, cylinders, spheres, arbitrary curves, surfaces and swept surfaces. Objects can be fixed in an absolute coordinate system or relative to each other (the latter feature is provided by the so-called rigid sets of objects). Set of geometric constraints includes logical constraints between geometric entities (like coincidence, parallelism, tangency, etc.) and dimensional constraints (that specify the required values for given distances, angles or radii). LGS moves and rotates objects to the positions where all constraints are satisfied by performing minimal transformations of initial configuration. It also renders standard CAD functions - 'move under constraints' and diagnostics of over- and under-defined parts of a model.

LGS 2D/3D are based on the Ledas' state-of-the-art engine provide affordable solution for those who need a strong variational and constraint-based functionality in CAD, modeling, or engineering software. Through the scalable architecture of LGS, variational and parametric techniques become available in a wide range of the products including desktop CAD/CAM/CAE, and object modeling tools, assembly design and analysis and others.

About NWPU

Northwestern Polytechnical University is China's only research-oriented, multi-disciplinary, and international university of science and technology, which simultaneously excels at Aeronautics, Astronautics, and Marine Engineering. The School of Astronautics is a very important part of the "Aeronautics, Astronautics and Marine Engineering" characteristic of the Northwestern Polytechnical University. It was originally founded in 1958 as Department of Astronautic Engineering, which is one of the earliest and premier schools in astronautics among Chinese universities. In order to adapt to the development of astronautic science and technology, the School of Astronautic Engineering was founded in December 1988, based on the former Department of Astronautic Engineering. In July 2003, the School of Astronautic Engineering was renamed to School of Astronautics

NWPU web site is http://www.nwpu.edu.cn

About LEDAS

LEDAS Ltd. is an independent software company founded in 1999; it is based in Novosibirsk Scientific Centre (*Akademgorodok*), Siberian Branch of the Russian Academy of Science. A leader in constraint-based technologies, LEDAS is a well-known provider of PLM components: geometric constraint solvers for CAD/CAM/CAE, optimization engines for Project Management, Work Scheduling and Meeting Planning as well as interval technologies for Knowledge-Based Engineering and Collaborative Design. The company also provides services for PLM and ERP markets: software development, consulting, reselling as well as education and training. Detailed information about LEDAS is available on the Internet at: www.ledas.com.

Contact

Sales and Marketing Department
LEDAS

Phone: +7 383 3356 504
fax: +7 383 3356 256

email: info@ledas.com