COMPUMAG 2005

First Call For Papers

The 15th COMPUMAG Conference on the Computation of Electromagnetic Fields will be held in Shenyang, CHINA, from Sunday 26 June to Thursday 30 June, 2005. Previous COMPUMAG Conferences were held at Oxford, UK (1976); Grenoble, France (1978); Chicago, USA (1981); Genoa, Italy (1983); Fort Collins, USA (1985); Graz, Austria (1987); Tokyo, Japan (1989); Sorrento, Italy (1991); Miami, USA (1993); Berlin, Germany (1995); Rio de Janeiro, Brazil (1997); Sapporo, Japan (1999); Evian, France (2001) and Saratoga Springs, USA (2003).

The aim of the Conference is to discuss recent developments and practical applications in the numerical computation of electromagnetic fields for engineers and physicists engaged in the design and analysis of electromagnetic devices. Reflecting the new trends and rapid progress in the field, authors worldwide are invited to submit original and previously unpublished contributions. The Conference will feature oral and poster presentations. Panel discussions and invited speakers will focus attention on future trends in areas of interest to the Conference. Companies and research organizations will have technical and commercial exhibitions. The Testing Electromagnetic Analysis Methods (TEAM) Workshop is incorporated into the Conference by inviting contributions on benchmarking and code validation.

Topics of interest include:
- Magnetostatic and electrostatic field calculations for both linear and nonlinear problems;
- Time-dependent fields, including the transient and steady state behavior of electromagnetic devices, eddy currents and skin effect;
- Computational techniques in electromagnetic compatibility;
- Wave propagation and scattering problems, including microwave devices and antennas;