# CONFERENCE TECHNICAL COMPUTING PRAGUE 2007

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The programming and visualization environment MATLAB created by the MathWorks company established in 1984 is one of the most important mathematical computing systems all over the world. At present it belongs together with its toolboxes among standard software tools used both for educational and research purposes and it creates the integration environment for different research disciplines. Founders of the company Jack Little and Cleve Moler combined their expertise in mathematics, engineering, and computer science to develop MATLAB. During the following years the environment has been extended by many toolboxes including block oriented system SIMULINK and modern possibilities of distributed computing. Detail information are available on address

> **HTTP://WWW.MATHWORKS.COM**
> **HTTP://WWW.HUMUSOFT.CZ**

The communication between users of this system is able through the CSMUG discussion group (Czech and Slovak Matlab User Group) with detail information available on address

> **HTTP://DSP.VSCHT.CZ/CSMUG_CZ.HTML**

At present there is 174 registered members of this group belonging to 32 universities and research institutes. The most active of them include the Czech Technical University, Czech Academy of Sciences, Institute of Chemical Technology in Prague and the Charles University. Discussion is allowed for members only but it is possible to sign for anybody using web address

> **HTTP://LISTSERV.VSCHT.CZ/MAILMAN/LISTINFO/CSMUG**

The communication between group members is possible sending questions and answers to address

*csmug@vscht.cz*

MATLAB users meet regularly on the international scientific conference with its present name *Technical Computing* to present results of research work and pedagogical activities using this environment. All contributions collected during last 8 years are available for anybody from
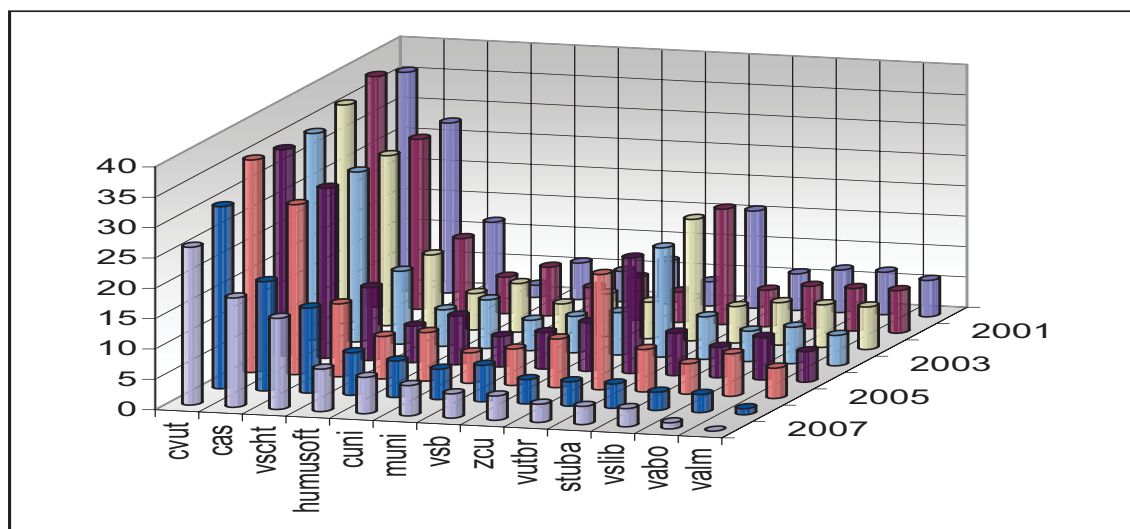


Figure 1: The development of the number of CSMUG members during years 2000 - 2007

Table 1: STATISTICS OF THE SUCCESSFULLY DOWNLOADED PAPERS FROM THE WWW SERVER OF THE TECHNICAL COMPUTING (MATLAB) CONFERENCE DURING THE PERIOD 1/10/2006 - 30/9/2007

| Year of the Conference | Number of Contributions in Conference Proceedings | Number of Papers Downloaded |
|---|---|---|
| 1999 | 42 | 4745 |
| 2000 | 67 | 8568 |
| 2001 | 70 | 10387 |
| 2002 | 105 | 11234 |
| 2003 | 105 | 13719 |
| 2004 | 100 | 14079 |
| 2005 | 128 | 29895 |
| 2006 | 108 | 13609 |
| Total | 725 | 106236 |

Table 2: SUMMARY OF THE MOST FREQUENTLY DOWNLOADED PAPERS FROM THE WWW SERVER OF THE TECHNICAL COMPUTING (MATLAB) CONFERENCE DURING THE PERIOD 1/10/2006 - 30/9/2007

| Number of Downloads | Contribution | Number of Downloads | Contribution |
|---|---|---|---|
| 2173 | matlab04/kratochvil.pdf | 459 | matlab06/cidl_hyncica.pdf |
| 1955 | matlab00/ondracka.pdf | 446 | matlab05/masar2.pdf |
| 1214 | matlab05/brandt.pdf | 422 | matlab01/msal.pdf |
| 820 | matlab05/ondera.pdf | 421 | matlab05/thursky.pdf |
| 683 | matlab05/achtenova.pdf | 420 | matlab05/grobelny.pdf |
| 663 | matlab05/potuckova.pdf | 410 | matlab01/komarek.pdf |
| 612 | matlab01/eisenst.pdf | 406 | matlab04/pavelka.pdf |
| 600 | matlab05/vojtesek.pdf | 405 | matlab05/gavlasova.pdf |
| 588 | matlab05/mudrova.pdf | 403 | matlab05/foltin2.pdf |
| 520 | matlab05/pelant.pdf | 399 | matlab05/kahanek.pdf |
| 513 | matlab05/steinbauer.pdf | 382 | matlab04/dusek_jaroslav.pdf |
| 503 | matlab05/grepl.pdf | 377 | matlab04/kubicek.pdf |
| 487 | matlab00/zapl.pdf | 373 | matlab01/bobal.pdf |

the address of the discussion group. During the last year 106 236 papers have been successfully downloaded from this address with the time distribution of papers summarized in Tab. 1 and identification of the most frequently downloaded papers given in Tab. 2.

At the end it is necessary to express thanks to all active participants of the International Conference on Technical Computing Prague 2007 for contributions presenting their research and educational work. Special thanks belongs also to the HUMUSOFT company representing the MathWorks Company in the Middle Europe for regular organization of conferences devoted to the interdisciplinary MATLAB computing environment.