

Events of Interest to the Sampling Group

SampTA03 Sampling Theory and Applications 2003 May 26 – 30, 2003, in Strobl, Austria

This is the first announcement and call for papers for the **Fifth International Conference on Sampling Theory and Applications**.

Sampling theory is at the interface of analog/digital conversion and is therefore ubiquitous in modern technology. Sampling theory has established itself as an important field of analysis with strong interdisciplinary links and a wide range of applications.

This interdisciplinary conference will gather mathematicians, engineers, and applied scientists involved in modern data processing problems. Its main purpose is to exchange informations at all levels on the state-of-the-art of sampling theory. Emphasis will be given to:

- The mathematical foundations of modern sampling theory,
- The numerical aspects and the development of efficient algorithms for sampling and reconstruction, and
- The practical applications of sampling techniques in a variety of applications.

Topics include, but are not limited to:

1. Nonuniform Sampling
2. Numerical Methods and fast numerical Algorithms
3. Sampling and Interpolation in Spline-Type-Spaces
4. Effective Bandwidth and Noise Reduction
5. Frames, Non-orthogonal Expansions, and Applications
6. Greedy Algorithms and Thresholding methods
7. Radial Basis Functions
8. Wavelet and Gabor methods in sampling theory
9. Sampling Topics related to Wavelet and Gabor Theory
10. The Gibbs Phenomenon in Sampling

Scientific Committee: Akram Aldroubi, John Benedetto, Carlos Berenstein, Paul L. Butzer, Pete Casazza, Ole Christensen, Hans G. Föichtinger, Paulo Ferreira, Simon Godsill, Karlheinz Gröchenig, Chris Heil, John R. Higgins, Armin Iske, A.J.E.M. Janssen, Abdul J. Jerri, Yura

Lyubarskii, Wally Madych, Farokh Marvasti, Frank Natterer, Trygve Randen, Micheal Unser, Kristian Seip, R. L. Stens, Bruno Torresani, Thomas Strohmer, Martin Vetterli, Dave Walnut, Ahmed I. Zayed, Yehoshua Zeevi.

Local Organizers: Hans G. Feichtinger and NuHAG (Numerical Harmonic Analysis Group), Department of Mathematics, University of Vienna, Strudlhofgasse 4, A-1090 Wien

Format: There will be two invited one-hour lectures per day, 30 minute talks, poster session for the more technical and specific presentations, and the opportunity for software presentations.

Location: Strobl is a scenic village in the lake region near Salzburg with a beautiful and stimulating environment. Local transportation to and from Vienna and Salzburg at the beginning and the end of the conference will be organized.

Accompanying Event: Assuming sufficient interest we plan a one or two-day workshop on “Nonuniform Sampling Algorithms and their MATLAB implementation” at the University of Vienna immediately preceding the conference on May (23th and) 24th.

Registration Information:

The place allows for about 100 participants, which can book single or double rooms. Participants will take lunch and dinner together at the conference site if not arranged otherwise. Expected costs per person/day in a single resp. double room are approx. EURO 60/50 (full board? Vollpension?). REGISTRATION FEE: 120 EURO (= approx. 110 US Dollar)

Important Dates:

Preregistration: anytime, starting June 2002

(once the registration page is “up”).

Submission of (extended) abstracts: November 1st, 2002

Decision about acceptance of submission: January 15th, 2003.

Final version of accepted papers (6-8 pages max): March 15th, 2003

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