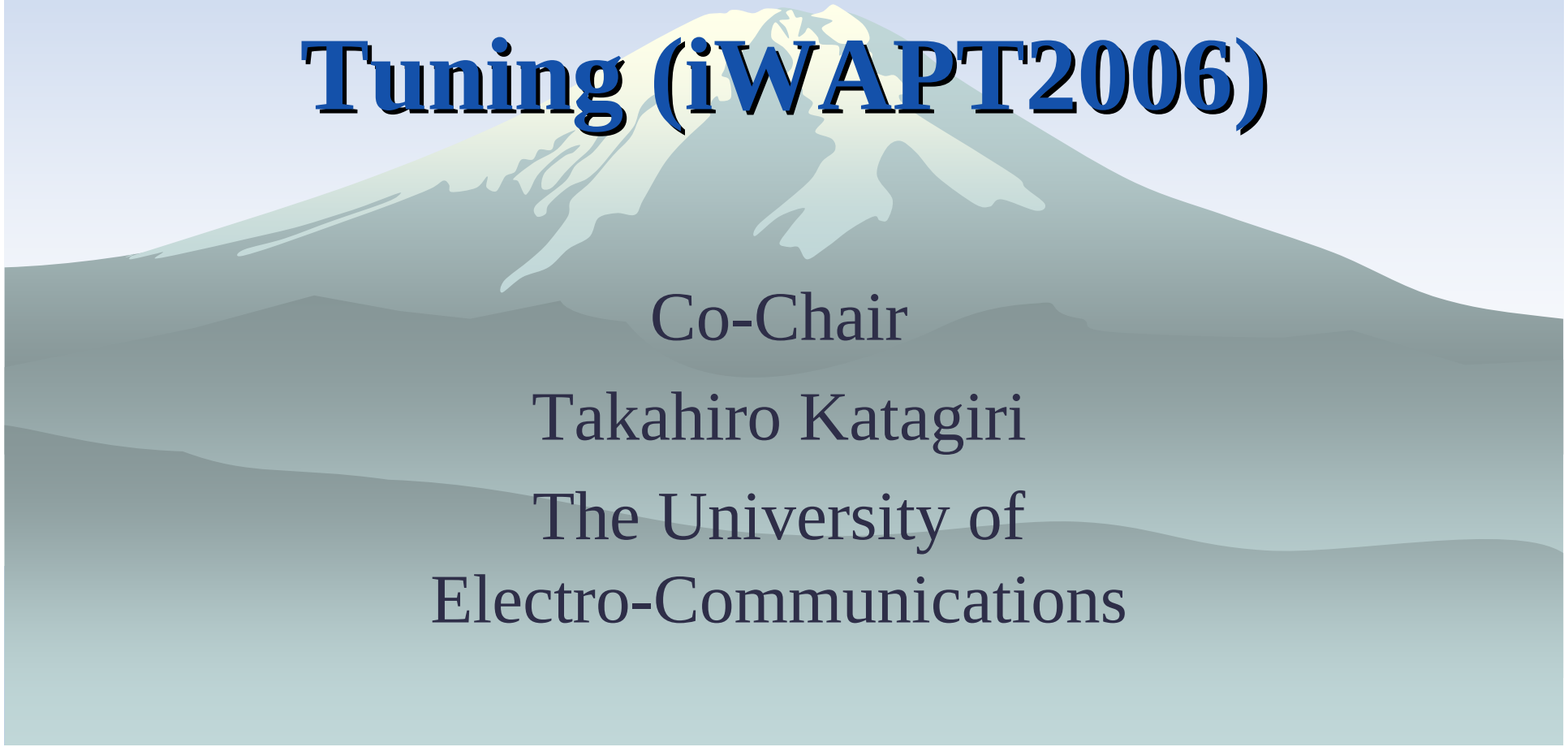
Welcome to First International Workshop on Automatic Performance Tuning (iWAPT2006)



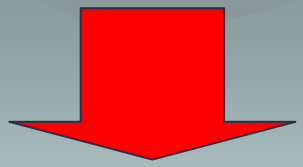
Co-Chair

Takahiro Katagiri

The University of Electro-Communications

Objective of the Workshop

- Computer environments are getting complex.
  - GRID
    - Heterogeneous Computation Environment
  - Embedded System
    - Software Specification
- To solve their complexities, automatic performance tuning is much-wanted technology.



1. **To show the advanced auto-tuning technologies,**
2. **To find its possibilities.**

Invited Speakers

- **Dr. Richard Vuduc**
  Lawrence Livermore National Laboratory, USA
  - "OSKI: A Library of Automatically Tuned Sparse Matrix Kernels"
- **Dr. Victor Eijkhout**
  Texas Advanced Computing Center, The University of Texas at Austin, USA
  - "A Self-adapting System for Linear Solver Selection"

Sessions

- **Session 1: State-of-the-Art of Auto-tuning Research**
  - Prof. Toshiyuki Imamura
    The University of Electro-Communications
    - "Automatic Tuning for Collective Communication Operations“
  - Dr. Ken Naono
    Central Research Laboratory, Hitachi Ltd.
    - "Numerical Policy Interface for Automatic Tuning Library“
- **Session 2: Advanced Research on Auto-tuning**
  - Prof. Takeshi Iwashita
    Academic Center for Computing and Media Studies, Kyoto University
    - "Easy Comparison Way of Orderings for Parallel ILU Preconditioned Iterative Solver"
  - Prof. Shoji Itoh
    Academic Computing and Communications Center, University of Tsukuba
    - "Development of Performance Evaluation System and Knowledge Database on Matrix Computations"

Reception

- 17:30-19:30
  Restaurant “Matumoto-ro”,
  In the front of Koshiba Hall
  - Please ask about “on-the-fly” registration in the front desk.

Sponsors

- Sponsorship
  - **Grant-in-Aid for Scientific Research on Priority Areas (Cyber Infrastructure for the Information Explosion Era)**
    - "Research on Mathematical Core for Robust Auto-Tuning Software in Information Explosion Era“
  - **Grant-in-Aid for Scientific Research (C)**
    - "Auto-tuning Method for Numerical Computations and Embedded Systems"
- Support:
  - **Japan Society for Industrial and Applied Mathematics (JSIAM)**
    - Activity Group,"Algorithms for Matrix/Eigenvalue Problems and their Applications"

Committee and staff

- Co-Chairs:
  - Takahiro Katagiri, The University of Electro-Communications
  - Reiji Suda, The University of Tokyo
- Organizing Committees:
  - Toshiyuki Imamura, The University of Electro-Communications
  - Ken Naono, HITACHI Limited
  - Kentaro Shimizu, The University of Tokyo
  - Yusaku Yamamoto, Nagoya University
  - Toshitugu Yuba, The University of Electro-Communications
- Staff
  - Kaori Sato, The University of Tokyo
  - Kazumasa Kotani, The University of Tokyo
  - Tomohisa Yamakami, The University of Tokyo
  - Tomohiro Tsukamoto, The University of Electro-Communications
  - Yu Nakanishi, The University of Electro-Communications

Let's Enjoy!