

International Workshop on Reliable Computing and Computer-Assisted Proofs  
(ReCAP 2022)

~Student Session in Japanese~

As one of the satellites of this workshop, we will hold a "Student Session" as follows.

The presentation language is Japanese.

Organizers

Kazuaki Tanaka (Waseda University)

Shin'ichi Oishi (Waseda University)

Takeshi Ogita (Tokyo Woman's Christian University)

Xuefeng Liu (Niigata University)

Akitoshi Takayasu (University of Tsukuba)

Date: Monday, March 14, 2022, 13:00-15:00; Wednesday, March 16, 2022, 13:00-15:00

Venue: Online

March 14

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|-------------|---|
| 13:00-13:30 | Kazuki Takahashi (高橋 和暉) 筑波大学 4 年<br>Rigorous numerics for periodic solutions of ODEs using Julia language                  |
| 13:30-14:00 | Shinsuke Kondo (近藤 慎佑) 筑波大学 4 年<br>Implementation of Chebyshev interpolation using the Julia language and its application   |
| 14:00-14:30 | Hiroaki Miyauchi (宮内 洋明) 筑波大学大学院 博士前期課程 2 年<br>Constructing the Bessel functions rigorously via the power series arithmetic |

March 16

- 13:00-13:30 Sora Sawai (沢井 宇宙) 早稲田大学 4 年  
A posteriori verification for two-dimensional Delaunay triangulation  
(二次元領域におけるドロネー三角形分割の事後保証)
- 13:30-14:00 Ryoki Endo (遠藤 凌輝) 新潟大学 4 年  
Computer-assisted proof for the minimization of Dirichlet eigenvalue over triangles
- 14:00-14:30 Taiga Nakano (中野 泰河) 新潟大学大学院 博士後期課程 2 年  
Explicit local error estimation for Poisson's equation over non-uniform meshes
- 14:30-15:00 Yuki Uchino (内野 佑基) 芝浦工業大学理工学研究科 修士 2 年  
Acceleration of Iterative Refinement for Symmetric Eigenvalue Decomposition  
(実対称固有値分解に対する反復改良法の高速化)