A3 Workshop in Applied Inverse Problems

January 28-30, 2019

Okinawaken Seinenkaikan
2-15-23 Kume, Naha, Okinawa, Japan

January 28, Monday (at Deigo(梯梧) Room on the 2nd floor)

9:20   Opening

9:30-10:10 Masato Kimura (Kanazawa Univerity)
  Conformal mapping method and shape optimization approach
  for an inverse free boundary problem

10:20-11:00 Jin Cheng (Fudan University)
  Unique continuation for Helmholtz equations on the analytic surface

11:10-11:50 Soomin Jeon (KAIST)
  Kernel deconvolution based scattering correction method for x-ray CT

12:00-12:40 Goro Nishimura (Hokkaido University)
  Sensitivity of fluorescence signal in strong scattering medium
  with background fluorescence

12:40-13:30 Lunch Break

13:30-14:10 Yuko Hatano (Tsukuba University)
  Short-term estimation of the radiation dose rate by the particle filter

14:20-15:00 Ting Wei (Lanzhou University)
  Identification of time-dependent convection coefficient
  in a time-fractional diffusion equation

15:10-15:50 Takashi Ohe (Okayama University of Science)
  Real-time reconstruction of moving directional wave sources
  from boundary measurements

16:00-16:40 Igor Trushin (Tohoku University)
  On inverse scattering on quantum graphs

January 29, Tuesday (at Sango (珊瑚) Room on the 1st floor)

9:30-10:10 Chang-Ock Lee (KAIST)
　　　　Shape prior beam hardening correction for industrial 3D conebeam CT

10:20-11:00 Manabu Machida (Hamamatsu University School of Medicine)
　　　　Stability analysis of inverse problems for 1+1/2 fractional parabolic equations

11:10-11:50 Jijun Liu (Southeast University)
　　　　On the source identifications for time-fractional order diffusion process

12:00-12:40 Chunlong Sun (Hokkaido University, Southeast University)
　　　　Fluorescence diffuse optical tomography using a cuboid approximation

12:40-13:30 Lunch Break

13:30-14:10 Yu Jiang (Shanghai University of Finance and Economics)
　　　　A hybrid Inversion schemes for diffusion optical tomography

14:20-15:00 Guanghui Hu (Beijing Computational Science Research Center)
　　　　Reflection principle with applications to unique determination
　　　　of an obstacle with a single incoming wave

15:10-15:50 Xiang Xu (Zhejiang University)
　　　　Carleman estimate on a network for telegrapher's equations and applications

16:00-16:40 June-Yub Lee (Ewha Womens University)
　　　　Image analysis technique using FSI-model based AI

17:30-20:00 Banquet

January 30, Wednesday (at Sango (珊瑚) Room on the 1st floor)

9:30-10:10 Cheng Hua (Fudan University)
      Group velocity and wave packet amplitude of flexural wave propagation
      in one dimensional acoustic black hole structure

10:20-11:00 Dinghua Xu (Zhejiang Sci-Tech University)
      Data modeling in functional clothing design:
      forward and inverse problems approaches

11:10-11:50 Shuai Lu (Fudan University)
      Balancing principle in supervised learning for a general regularization scheme

11:50   Closing