



## Technical Sessions (Tuesday Afternoon, September 18)

### Tuesday Afternoon (September 18) 13:30 - 15:30

#### Hydraulic Turbines 7 (RY202)

Chairs: Dr. Keita Yamamoto (Central Research Institute of Electric Power Industry, Japan), Dr. Rolf Karl Gustavsson (Vattenfall AB, Sweden)

[IAHR2018-106](#) “Vibration fault diagnosis based on Multi-scale EMD time-series similarity mining for hydroturbine”, Yangang Xue (Lanzhou Institute of Technology, China)

[IAHR2018-134](#) “Solution of a kind of negative flow in Pelton turbine”, Ruzhi Gong (Harbin Institute of Technology, China), Chao Ying Shang (Harbin Institute of Technology, China), Hongjie Wang (Harbin Institute of Technology, China), Deyou Li (Harbin Institute of Technology, China), Yikui Zhou (Harbin Institute of Technology, China), Xianzhu Wei (State Key Laboratory of Hydro-Power Equipment, Harbin Institute of Large Electrical Machinery, China)

[IAHR2018-114](#) “Formation of Rotating Vortex Rope in the Francis-99 Draft Tube”, Nahaleh Sotoudeh (Tarbiat Modares University, Iran), Reza Maddahian (Tarbiat Modares University, Iran), Michel J. Cervantes (Lulea University of Technology, Sweden)

[IAHR2018-118](#) “Physic of Bad-behaved Flow in Pelton Turbine through Dynamic Simulation”, Lei Han (Harbin Institute of Technology, China), Gaofu Zhang (Harbin Institute of Technology, China), Ruzhi Gong (Harbin Institute of Technology, China), Hongda Wei (Harbin Institute of Technology, China), Wei Li (Harbin Institute of Large Electrical Machinery, China)

[IAHR2018-130](#) “Numerical methodology to predict and analyze cavitating flows in a Kaplan turbine”, Flavia Turi (Univ. Grenoble Alpes, Grenoble INP, France), Regiane Fortes-Patella (Univ. Grenoble Alpes, Grenoble INP, France)

[IAHR2018-108](#) “On the runner cone perforation in Francis hydro-turbine”, Youning Xu (Shenyang Institute of Engineering, China), Wentao Su (Harbin Institute of Technology, China)