



## Technical Sessions (Monday Afternoon, September 17)

### Monday Afternoon (September 17) 13:00 - 15:00

#### Pumps 1 (RY204)

Chairs: Dr. Shusaku Kagawa (Ebara Corporation, Japan), Dr. Young-Seok Choi (Korea Institute of Industrial Technology, Korea)

[IAHR2018-047](#) **“Three-Objective Optimization of a Single-Channel Pump for Wastewater Treatment”**, Jin-Hyuk Kim (Korea Institute of Industrial Technology, Korea), Wang-Gi Song (University of Science and Technology, Korea), Young-Seok Choi (Korea Institute of Industrial Technology, Korea), Kyoung-Yong Lee (Korea Institute of Industrial Technology, Korea), Sang-Bum Ma (Inha University, Korea), Kwang-Yong Kim (Inha University, Korea)

[IAHR2018-054](#) **“Influence of Impeller and Guide Vane Hub Size on Hydraulic Performance of Mixed-flow Pump”**, Wenpeng Zhang (Yangzhou University, China), Fangping Tang (Yangzhou University, China), Shengying Zhou (Tengzhou urban and rural water supply center, China), Ye Xia (Yangzhou University, China), Chenhui Wu (Yangzhou University, China), Haiyu Liu (Yangzhou University, China)

[IAHR2018-115](#) **“Wall Roughness Influence on the NPSH Characteristics of Centrifugal Pumps”**, Andrej Lipej (University of Novo mesto, Slovenia), Simon Muhic (University of Novo mesto, Slovenia), Dusko Mitrusovski (SM Pumps, Slovenia)

[IAHR2018-170](#) **“Artificial neural network for the performance improvement of a centrifugal pump”**, Wenjie Wang (Jiangsu University, China), Ji Pei (Jiangsu University, China), Shouqi Yuan (Jiangsu University, China), Xingcheng Gan (Jiangsu University, China), Tingyun Yin (Jiangsu University, China)

[IAHR2018-367](#) **“Experimental Investigation on Suction Performance and Cavitation Instabilities of Turbopumps with Two Different Inducers”**, Tatsuya Morii (Kyushu University, Japan), Yohei Tanaka (Kyushu University, Japan), Satoshi Watanabe (Kyushu University, Japan), Satoru Ohashi (IHI Corporation, Japan), Yasushi Matsunaga (IHI Corporation, Japan)