

**Progress in demand-oriented non-uniform air
distributions**



ISHVAC 2019
**The 11th International Symposium
on Heating, Ventilation
and Air Conditioning**

Final Program

July 12-15, 2019, Harbin, China



➤ Agenda

Workshop 15	
Progress in Demand-oriented Non-uniform Air Distributions	
Monday, July 15, 13:30-15:30	Room 1 (Hall)
Co-chair: Zhang Lin, City University of Hong Kong, China	
Co-chair: Xianting Li, Tsinghua University, China	

The demand-oriented non-uniform indoor environment has become a focus of current air distribution research. The benefits of providing non-uniform indoor environments will be introduced in this workshop. The recent progress on the topic will be focused on and discussed. This workshop will help researchers further develop advanced air distribution technology, which provides a demand-oriented non-uniform environment in the occupied zone. The workshop will also discuss operation optimization with engineers and consultants for the practical application of advanced air distributions.

Topic	Speaker	Time
Presentation 1 Implementing demand-oriented ventilation with adjustable fan network	Xianting Li, Tsinghua University, China, xtingli@tinghua.edu.cn	12 min
Question and discussion		6 min
Presentation 2 Providing a demand-oriented non-uniform indoor thermal environment using different air distributions	Xiaoliang Shao University of Science and Technology Beijing , China, Shaoxl2020@qq.com	12 min
Question and discussion		6 min
Presentation 3 Airborne transmission in non-uniform indoor environments	Zhengtao Ai, Hunan University, China, zhengtaoai@hnu.edu.cn	12 min
Question and discussion		6 min
Presentation 4 Optimization of subzone control optimization of air distributions under varying cooling load for both thermal comfort and energy efficiency	Sheng Zhang, City University of Hong Kong, China, shezhang-c@my.cityu.edu.hk	12 min
Question and discussion		6 min
Presentation 5 Insights on non-uniform indoor thermal environment	Zhang Lin, City University of Hong Kong, China, bsjzl@cityu.edu.hk	12 min
Question and discussion		6 min

➤ Pictures of the workshop

