


Requests for Collaboration

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<p>Research Interests</p>	
<ul style="list-style-type: none"> ● Urban Thermal Environment ● Countermeasures against urban heat island ● Energy Conservation of Buildings ● Campus Sustainability 	
<p>Creative achievements in the application of new and existing science and technology</p>	
<p>Recently I have joined energy conservation technology development projects commissioned by the New Energy and Industrial Technology Development Organization (NEDO); One is the sewage water heat recovery and the other is the hot spring water heat recovery. Both projects would contribute to energy saving for hot water supply using heat pump water heaters. I have been working on the estimation of energy saving effects using Modelica in the Dymola environment with interest. I am going to make a presentation about it at the international conference for district heating and cooling, DHC 2018, in September. [1],[2]</p>	
<p>Research theme that I want to collaborate</p>	
<p>#Interchanging low temperature heat energy for sustainable city e.g. [1],[2],[4] #Spatial thinking of urban environment e.g. [5] and designing comfortable outdoor spaces in the urbanized area e.g. [3]</p>	
<p>A list of 5 key publications</p>	
<p>[1] <u>Minako Nabeshima</u>, Naoyoshi Koh, Masaki Nakao, Masahito Mike: Estimation of the energy-saving effect of introducing a heat source water network system with single-loop piping utilizing hot spring heat, <i>Energy Procedia</i>, 149, 519-528, 2018 (https://doi.org/10.1016/j.egypro.2018.08.216) [2] Masaki Nakao, <u>Minako Nabeshima</u>, Yoichi Kobayashi, Masashi Ishinada: Thermal Grid System and its field test in multiple buildings with individual heating and cooling facility, <i>Energy Procedia</i>, 149, 112-121, 2018 (https://doi.org/10.1016/j.egypro.2018.08.175) [3] Yusuke Uchida, <u>Minako Nabeshima</u>, Masatoshi Nishioka: Development of a measurement instrument and its features for estimating the degree of wetness caused by outdoor misting, <i>Journal of Heat Island Institute International</i>, Vol.12-2, P-28, 2017 [4] Masahito Mike, <u>Minako Nabeshima</u>, et al.: The Evaluation of Sewage Temperature and Flow Rate for Estimating Sewage Temperature and Flow Rate in Sewer Line, <i>Transactions of the Society of Heating, Air-conditioning and Sanitary Engineers of Japan</i>, 39(202), 11-21, 2014 (Japanese) [5] <u>Minako Nabeshima</u>, Masatoshi Nishioka, et al.: Urban Vegetation Effects on the Spatial Variability of Temperature in the City Center, <i>Journal of Heat Island Institute International</i>, Vol. 7-2, 126-133, 2012</p>	