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occupancy-based control schedule. And it proves that SSIOE still has a good performance even in six-stage control.

% Meanwhile, ablation studies demonstrate the contribution of modules in SSIOE.

In this paper, we proposed SSIOE, a learning-based occupancy estimation algorithm that can output continuous occupancy ratios without manual labels.

SSIOE is a self-supervised learning algorithm; specifically, it guides the training process of occupancy regression tasks with pseudo labels generated using simple physical understanding. During the training process, a novel constraint loss is applied to guide the physical priors; moreover, SSIOE adopts the MAML mechanism, which makes it possible for the model to adapt to the environment changing easily.

The experimental results show that SSIOE outperforms the baseline method under all the simulation scenarios of the occupancy-based control schedules with 2-6 different control modes. Meanwhile, the ablation studies demonstrate the contribution of modules in SSIOE.

Aside from the above, it is worth mentioning that we have deployed SSIOE algorithm in real-world buildings and achieved 2-5% energy savings in HVAC and lighting systems.

SSIOE: Self-Supervised Indoor Occupancy Estimation For Intelligent Building Management

Sin-Han Huang<sup>1</sup>, Tzu-Yin Chao<sup>2</sup>, and

Abstract—Most of the energy consumption in a building is mainly contributed by the air-conditioning system and lighting system. Thus, to save the energy as possible while considering comfort, setting up a reasonable control schedule is crucial. To this end, our goal is to estimate indoor occupancy given the real-time value observed from the common existing sensors and build a dynamic schedule by referencing the real-time indoor occupancy. Nonetheless, to act in reality, several issues need to be addressed. First, it's impossible to train the model with rich labels due to the expensive labelling cost. Second, it's not easy to manually annotate occupancy ground-truth in continuous values. Third, the mapping relationship between sensor data and occupancy will change in the long run. In this paper, to overcome the challenge, we proposed SSIOE, an algorithm for self-supervised indoor occupancy estimation. Specifically, our training scheme aims to (I) generate a set of pseudo labels in a simple way to mark the periods believed to be either in a high or low occupancy state and (II) utilize these labels for training a network to infer the continuous occupancy ratio. To the best of our knowledge, SSIOE is the first learning-based method that can learn from discrete labels of either "high-occupancy" or "low-occupancy" but estimate the real-time occupancy ratio in continuous values, by reformulating the problem into a Wasserstein-distance-like estimation. Furthermore, to deal with the scarce annotation problem, we design a novel physical constraint loss to guide the physical prior. Last but not least, for strengthening the adaptability, we introduced Model-Agnostic Meta-Learning (MAML) to train the model. Experimental results show that SSIOE can not only provide reliable occupancy estimation, but also capable for flexibly adapting to different schedules with various number of control modes without retraining the model.

Index Terms—Deep Learning Methods, Environment Monitoring and Management, Sensor Fusion, Sensor-based Control.

1. INTRODUCTION

More than 40% of global energy consumption comes from buildings [1]. For an office building, two of the most consuming systems are the heating, ventilation, air conditioning (HVAC) system, and the lighting system [2]. Therefore, many studies have focused on designing a suitable system control strategy to balance the user's comfort, security and the least power consumption.

Typically, the system control strategy is highly related to the

Indoor Occupancy

Visual Comfort

Thermal Comfort

Rules of System Control

Indoor Occupancy

Brightness

Lighting System

HVAC System

Target Temperature

Fig. 1: Application of occupancy for intelligent building management. We combine occupancy and comfort requirements to establish building management rules and provide a more comfortable and energy-efficient environment.

cause energy waste or make the users (employees) uncomfortable since a fixed control schedule can not adapt to the variation of indoor occupancy from day to day [3], especially during work overtime, bridge holiday, or make-up work day, etc. Hence, it is desired to build an adaptive and time-variant controlling schedule according to the dynamic indoor occupancy, as shown in Fig. 1. Toward the goal, an efficient way for indoor occupancy estimation is crucial.

For a large-scale office with hundreds of occupants, due to the large gap in the number of occupants between full load and zero load, a simple on/off control cannot meet occupants' comfort requirements. Therefore, ideally, designing multiple control modes and switching among them dynamically concerning real-time occupancy could be a better solution. However, to execute such a strategy well, a multi-stage occupancy (e.g., high, medium, low, etc.) or occupancy estimation in continuous value is required, which is not possible for office buildings without occupancy sensors.

To this end, to lower the threshold of applying the control strategy, our goal is to estimate the occupancy in continuous value for a large-scale office with common existing sensors which implicitly indicate human activity. However, there are

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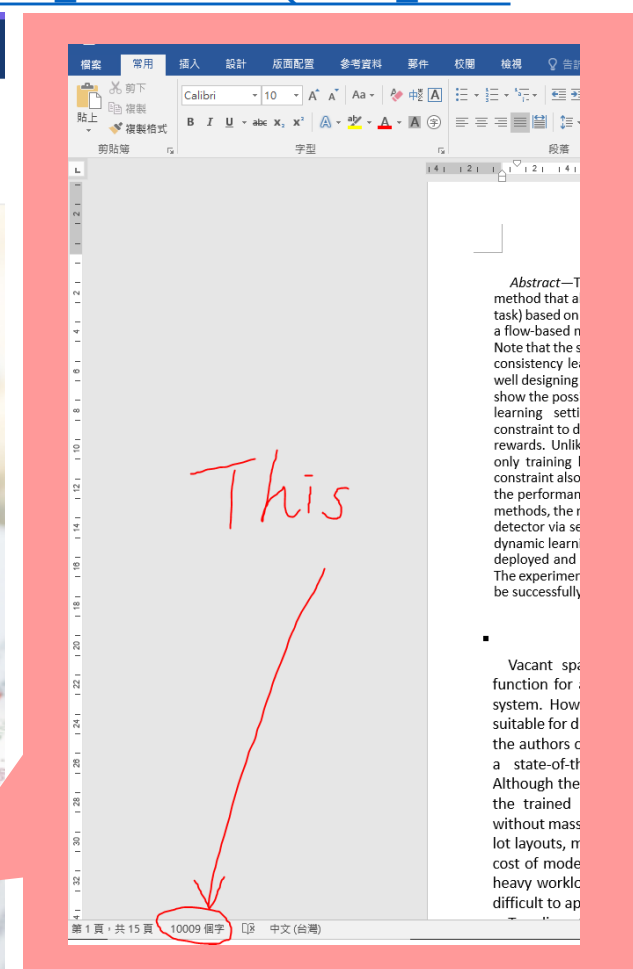
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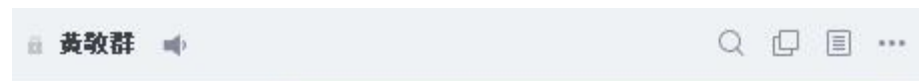
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