Assoc. Prof. Dr. Sudaporn Sudprasert

Faculty of Architecture and Planning, Thammasat University

www.tds.tu.ac.th

T. +66 (0) 2986 9434, +66 (0) 2986 9605-6

F. +66 (0) 2986 8067

E. sudaporn@ap.tu.ac.th

Specializations

- Ventilation in buildings using a solar chimney
- Moist air in the building and human thermal comfort
- Computational fluid dynamics (CFD), ANSYS Fluent
- Building energy simulation program, eQUEST

Educations

- B.Sc. in Mechanical Engineering, (SIIT) (1997)
- M.Sc. in Mechanical Engineering, SIIT (2000)
- Ph.D. in Energy Technology, SIIT (2007)

  Royal Golden Jubilee Scholarships

Publications

International Journal (Online in Scopus/ISI databases)

- Krittiya Ongwuttiwat, Sudaporn Sudprasert, and Thananchai Leephakpreeda. 2018. Determination of human thermal comfort due to moisture permeability of clothes. International Journal of Clothing Science and Technology, Vol. 30 No. 4, pp. 462-276.
- Sudaporn Sudprasert and Sukhum Sankaewthong. 2018. Utilization of rice husks in a water-permeable material for passive evaporative cooling. Case Studies in Construction Materials, Vol. 8, pp. 51-60
- Sasicha Sakdawattananon, Sudaporn Sudprasert, Phadungsak Rattanadecho. 2017. Numerical Study of Thermal Behaviors in Roof Ponds under the Hot and Humid Climate. Walailak Journal of Science and Technology (WJST), Vol. 14 No. 5, pp. 401-415.
- Sudaporn Sudprasert, Chatchawin Chinsorranant, Phadungsak Rattanadecho. 2016. Numerical study of vertical solar chimneys with moist air in a hot and humid climate. International Journal of Heat and Mass Transfer, Vol. 102, November 2016, pp. 645-656.
- Sudaporn Sudprasert, Kanlaya Kasorn, Joseph Khedari. 2015. Thermal Sensation of Thai Students in an Air Conditioning Space with a Pond Type Water Source and Velocity Step Change. International Journal of Ventilation Vol. 14 Issue 1. pp. 91-108.
- Sudaporn Chungloo and Bundit Limmeechokchai. 2009. Utilization of cool ceiling with roof solar chimney in Thailand: The experimental and numerical analysis. Renewable Energy Volume 34, Issue 3, March 2009: 623-633.

Publications

International Journal (Scopus, ISI databases)

- Sudaporn Chungloo and Bundit Limmeechokchai. 2009. A field study of free convection in an inclined-roof solar chimney. Science Asia, Vol. 35 No. 2 June 2009, pp. 189-195.
- Sudaporn Chungloo and Bundit Limmeechokchai. 2007. Application of passive cooling systems in the hot and humid climate: The case study of solar chimney and wetted roof in Thailand. Building and Environment Volume 42, Issue 9, September 2007: 3341–3351.

National Journal (Online in Thai journal : https://tci-thaijo.org/)

- Sudaporn Sudprasert. 2017. Application of Evaporative Cooling in the Building Ventilated by a Solar Chimney. BUILT 9. pp. 25-34.
- สุดาภรณ์ สุดประเสริฐ. 2559. การสำรวจสภาวะสบายเชิงความร้อนของนักศึกษาในห้องไม่ปรับอากาศ. วารสารวิชาการคณะสถาปัตยกรรมศาสตร์ มหาวิทยาลัยขอนแก่น. ปีที่ 15 ฉบับที่ 2 กรกฎาคม-ธันวาคม พ.ศ. 2559.
- Krittiya Ongwuttiwat and Sudaporn Sudprasert. 2015. Review Article: Thermal Balance and the Role of Clothing on Thermal Comfort in Hot and Humid Climate. BUILT 6. pp. 5-13
- Sudaporn Sudprasert, Santirak Prasertsuk, Poomchai Punpairoj, Srisak Phattanawasin, Chawee Busayarat and Piriya Sambandaraksa. 2015. The Opportunity of Building Integrated Agriculture in Bangkok. BUILT 6. pp. 25-37.
- Pattarawan Aimkamon, Udomkiat Nontakaew and Sudaporn Sudprasert. 2014. Numerical Study of Reduction of Ceiling Heat Load by Forced Convection. BUILT 4. pp. 25-35.
- Sudaporn Sudprasert and Sivayu Klinsmith. 2014. Assessment of Overall Thermal transfer Value (OTTV) in Buildings with Inclined Glass Wall. Journal of Architectural/Planning Research and Studies Volume 11. Issue 1. 2014. pp. 109-118.
- ปัณณทัต เพ็ชรดี และ สุดาภรณ์ ฉุ้งลู้. 2013. การปรับปรุงบานเกล็ดและช่องเปิดอาคารโรงงานเพื่อลดความร้อนด้วยลมธรรมชาติ. วารสารวิจัยและสาระสถาปัตยกรรม/การผังเมือง 10 (2) หน้า 31-44.
- Sudaporn Chungloo. 2012. Numerical Simulation of Forced Convective Heat Transfer Coefficients on Shaded Roofs with Wind Circulation in Low-Rise Buildings. Journal of Architectural/Planning Research and Studies Volume 9. Issue 2. 2012. pp. 63-80.

Professional Projects

- The water soaked porous material for evaporative cooling in space, 201 6-2018
- Study of Behavioral and Environmental Adaptations to Improve Thermal Comfort of Thai People in Buildings, 2014-2015