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Honorary Senior Lecturer  
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## Qualifications

### Employment

**Honorary Senior Lecturer**  
Science and Engineering Office  
School of Science and Engineering  
16 Oct 2019 → present

### Research output

#### **Analysis of thermal mixing in T-junctions using fluid-structure interaction**

Gow, A. R. & Salim, S. M., 14 Mar 2018, *Proceedings of the International MultiConference of Engineers and Computer Scientists 2018, IMECS 2018*. Castillo, O., Feng, D. D., Korsunsky, A. M., Douglas, C. & Ao, S. I. (eds.). Newswood Limited, (Lecture Notes in Engineering and Computer Science; vol. 2).

#### **Wall $y^+$ strategy for modelling rotating annular flow using CFD**

Davidson, A. A. & Salim, S. M., 1 Jan 2018, *Proceedings of the International MultiConference of Engineers and Computer Scientists 2018, IMECS 2018*. Castillo, O., Feng, D. D., Korsunsky, A. M., Douglas, C. & Ao, S. I. (eds.). Newswood Limited, (Lecture Notes in Engineering and Computer Science; vol. 2).

#### **Numerical simulation of dispersion in an urban street canyon: Comparison between steady and fluctuating boundary conditions**

Kwa, S. M. & Salim, S. M., 2015, In: *Engineering Letters*. 23, 1, p. 55-64 10 p.

#### **A review on the flow structure and pollutant dispersion in urban street canyons for urban planning strategies**

Yazid, A. W. M., Sidik, N. A. C., Salim, S. M. & Saqr, K. M., 25 Apr 2014, In: *Simulation and Gaming*. 90, 8, p. 892-916 25 p.

#### **Fluctuating inlet flow conditions for use in urban air quality CFD studies**

Kwa, S. M. & Salim, S. M., 2014, *Lecture Notes in Engineering and Computer Science*. Newswood Limited, Vol. 2. p. 1519-1524 6 p.

#### **Numerical analysis of fluid-structure interaction between wind flow and trees**

Gan, C. J. & Salim, S. M., 2014, *Lecture Notes in Engineering and Computer Science*. Newswood Limited, Vol. 2. p. 1218-1223 6 p.

#### **Numerical simulation of wind flow structures and pollutant dispersion within street canyon under thermally unstable atmospheric conditions**

Yazid, A. W. M., Che Sidik, N. A. & Mohamed Salim, S., 2014, *Applied Mechanics and Materials*. Trans Tech Publications LTD, Vol. 554. p. 655-659 5 p. (Applied Mechanics and Materials; vol. 554).

#### **Numerical prediction of air flow within street canyons based on different two-equation k- $\epsilon$ models**

Yazid, A. W. M., Sidik, N. A. C., Salim, S. M. & Yusoff, N. H. M., 2013, *IOP Conference Series: Materials Science and Engineering*. 1 ed. Vol. 50. 012012

#### **Performance of RANS, URANS and LES in the prediction of airflow and pollutant dispersion**

Salim, S. M. & Ong, K. C., 2013, *Lecture Notes in Electrical Engineering*. Vol. 170 LNEE. p. 263-274 12 p. (Lecture Notes in Electrical Engineering; vol. 170 LNEE).

**Numerical simulation of dispersion in urban street canyons with avenue-like tree plantings: Comparison between RANS and LES**

Salim, S. M., Cheah, S. C. & Chan, A., Sep 2011, In: *Building and Environment*. 46, 9, p. 1735-1746 12 p.

**Analysis of local scale tree-atmosphere interaction on pollutant concentration in idealized street canyons and application to a real urban junction**

Buccolieri, R., Salim, S. M., Leo, L. S., Di Sabatino, S., Chan, A., Ielpo, P., de Gennaro, G. & Gromke, C., Mar 2011, In: *Atmospheric Environment*. 45, 9, p. 1702-1713 12 p.

**Numerical simulation of atmospheric pollutant dispersion in an urban street canyon: Comparison between RANS and LES**

Salim, S. M., Buccolieri, R., Chan, A. & Di Sabatino, S., Feb 2011, In: *Journal of Wind Engineering and Industrial Aerodynamics*. 99, 2-3, p. 103-113 11 p.

**Large Eddy Simulation of the aerodynamic effects of trees on pollutant concentrations in street canyons**

Salim, S. M., Buccolieri, R., Chan, A., Di Sabatino, S. & Cheah, S. C., 2011, *Procedia Environmental Sciences*. Vol. 4. p. 17-24 8 p.

**Wall  $y^+$  approach for dealing with turbulent flows over a wall mounted cube**

Salim, S. M., Ariff, M. & Cheah, S. C., Sep 2010, In: *Progress in Computational Fluid Dynamics*. 10, 5-6, p. 341-351 11 p.

**CFD study of flow over parallel ridges with varying height and spacing**

Yik, L. C., Salim, M. S., Chan, A. & Cheong, C. S., 2010, *WCE 2010 - World Congress on Engineering 2010*. Vol. 2. p. 1206-1211 6 p.

**Study of tree-atmosphere interaction and assessment of air quality in real city neighbourhoods**

Buccolieri, R., Salim, S. M., Di Sabatino, S., Chan, A., Ielpo, P., De Gennaro, G., Placentino, C. M., Caselli, M. & Gromke, C., 2010, *HARMO 2010 - Proceedings of the 13th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes*. HARMO, p. 673-677 5 p.

**Large-eddy simulations of particle sedimentation in a longitudinal sedimentation basin of a water treatment plant. Part I: Particle settling performance**

Al-Sammarraee, M., Chan, A., Salim, S. M. & Mahabaleswar, U. S., 15 Oct 2009, In: *Chemical Engineering Journal*. 152, 2-3, p. 307-314 8 p.