

Dereje Agonafer - Publications
EMNSPC DATA CENTER PUBLICATIONS
Department of Mechanical and Aerospace Engineering
The University of Texas at Arlington

1. Mynampati, V.N.P., Muralidharan, B., Karajgikar, S., Agonafer D., Novotny, S., Schmidt, R., "Alternative Cooling Technologies in telecommunication Data Centers: Air cooling & Rear Door Heat Exchanger", under preparation for ASHRAE Journal.
2. Muralidharan, B., Mynampati, V.N.P., Agonafer, D., Hendrix, M., "Design optimization of telecommunication shelter", under preparation for IEEE TCPT.
3. Mynampati, V.N.P., Karajgikar, S., Sheerah, I., Agonafer, D., Novotny, S., Schmidt, R., "Rear Door Heat Exchanger cooling performance in telecommunication data centers", International Mechanical Engineering Congress and Exposition, November 12-18, 2010, Vancouver, British Columbia.
4. Mynampati, V.N.P., Iqbal Mariam, F.A., Muralidharan, B., Menon, A.R., Agonafer, D., Hendrix, M., "Thermally based Design Optimization of Telecommunication Shelters", International Mechanical Engineering Congress and Exposition, November 12-18, 2010, Vancouver, Canada.
5. Muralidharan, B., Iqbal Mariam, F.A., Mynampati, V.N.P., Menon, A.R., "CFD Modeling of Environmental System Options Used for Cooling of Telecommunication Shelters", 14th International Heat Transfer Conference, 2010, Washington D.C., USA.
6. Luttrell, J., Agonafer, D., "Solar Assisted Household Clothes Dryer", ASME 4th International Conference on Energy Sustainability, May 17-22, 2010, Phoenix, Arizona, USA.
7. Muralidharan, B., Iqbal Mariam, F.A., Karajgikar, S., Agonafer, D., Hendrix, M., "Energy Minimization Based fan Configuration for Double Walled Telecommunication Cabinet with Solar Load", SemiTHERM 2010, Santa Clara, CA.
8. Muralidharan, B., Iqbal Mariam, F.A., Mulay, V., Agonafer, D., Hendrix, M., "Impact of Double Walled Telecommunication Cabinet on Solar Load-Natural and Forced Convection", InterPACK '09, 2009, San Francisco, CA.
9. Mulay, V., Agonafer, D., Irwin, G., "Effective Thermal Management of Data Centers Using Efficient Cabinet Designs", ASME/JSME Thermal Engineering and Summer Heat Transfer Conferences & InterPACK '09, July 19-23, 2009, San Francisco, CA.
10. Karajgikar, S., Mulay, V., Agonafer, D., Schmidt, R., "Cooling of Data Centers Using Airside Economizers", ASME/JSME Thermal Engineering and Summer Heat Transfer Conferences & InterPACK '09, July 19-23, 2009, San Francisco, CA.

11. Karajgikar, S., Mulay, V., Menon, A., Agonafer, D., Zhang, J., "Optimization of Location of Power Cell For Energy Efficient Operation of Air Cool Drives", ASME/JSME Thermal Engineering and Summer Heat Transfer Conferences & InterPACK '09, July 19-23, 2009.
12. Iqbal Mariam, F.A., Raju, U., Mulay, V., Agonafer, D., Sivanandan, D., Hendrix, M., "Thermal Design Considerations of Air-Cooled High Powered Telecommunication Cabinets", SemiTHERM 2009, San Jose, CA.
13. Mynampati, V.N.P., Iqbal Mariam, F.A., Muralidharan, B., Agonafer, D., "Review of Reliability of Cooling Technologies in the Telecommunications Systems", International Mechanical Engineering Congress and Exposition, 2009, Orlando, FL.
14. Iqbal Mariam, F.A., Mulay, V., Agonafer, D., Hendrix, M., "Thermal Management of Telecommunication Cabinets Using Thermoelectric Coolers", International Mechanical Engineering Congress and Exposition, 2009, Orlando, FL.
15. Mulay, V., Agonafer, D., Schmidt, R., "Liquid Cooling for Thermal Management of Data Centers", International Mechanical Engineering Congress and Exposition, October 31-November 6, 2008, Boston, MA.
16. Mulay, V., Karajgikar, S., Agonafer, D., Iyengar, M., Schmidt, R., "Parametric Study of Hybrid Cooling Solution for Thermal Management of Data Centers", International Mechanical Engineering Congress and Exposition, November 11-15, 2007, Seattle, WA.
17. Mulay, V., Karajgikar, S., Iyengar, M., Agonafer, D., Schmidt, R., "Computational study of hybrid cooling solution for thermal management of data centers", 2007 ASME/JSME Thermal Engineering and Summer Heat Transfer Conferences & InterPACK '07, July 8-12, 2007.
18. Bhopte, S., Agonafer, D., Schmidt, R., Sammakia, B., "Optimization of Data Center Room Layout to Minimize Rack Inlet Air Temperature", Journal of Electronic Packaging, Transactions of the ASME, v 128, Issue 4, December 2006, pp. 380-387.
19. Bhopte, S., Iyengar, M.K., Sammakia, B., Schmidt, R., Agonafer, D., "Numerical Modeling of Data Center Clusters – Impact of Model Complexity", International Mechanical Engineering Congress and Exposition 2006, November 5-10, Chicago Hilton.
20. Bhopte, S., Sammakia, B., Iyengar, M.K., Schmidt R., Agonafer, D., "Effect of Under-Floor Blockages on Data Center Performance", IThERM, May 30-June 2, 2006, Sheraton San Diego Hotel and Marina, San Diego, CA.
21. Bedekar, V., Karajgikar, S., Agonafer D., Iyengar, M., Schmidt, R., "Effect of CRAC location on fixed rack layout", Proceedings of IThERM 2006, San Diego, CA

22. Bhopte, S., Agonafer, D., Schmidt, B., Sammakia, B., "Optimization of Data Center Room Layout to Minimize Rack Inlet Air Temperature", InterPACK'05 Conference, San Francisco, CA, July 17-22, 2005.
23. Refai-Ahmed, G., Agonafer, D., "Thermal Road map for Telecom Equipment", ASHRAE Transactions, v 111 n 1, 2005, p 913-920
24. Guggari, S., Agonafer, D., Beady, C., Stahl, L., "A hybrid methodology for the optimization of data center room layout", Advances in Electronic Packaging, v 2, Advances in Electronic Packaging 2003: Volume 2, 2003, pp. 605-612