

LIST OF PUBLICATIONS

Faculty: Dr Uma Maheswar Arepalli

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JOURNAL & CONFERENCE PUBLICATIONS

Decision Trees for Selecting Asphalt Pavement Crack Sealing Method - Munch, J., **Arepalli, UM.**, and Barman, M. *Transportation Research Record: Journal of the Transportation Research Board*, Washington, D.C., USA (2020)

DOI:<https://doi.org/10.1177/0361198120960135>

Maine's Porous Asphalt Pavement: Lessons Learned from its Design, Construction, and a Decade of Performance - Nener-Plante, D., and **Arepalli, UM** - *Journal of the Association of Asphalt Pavement Technologists* (AAPT), MN, USA. (2020) [Accepted: In-Press]

Moisture Susceptibility Evaluation of Hot Mix Asphalt: Combined Effect of Traffic and Moisture - **Arepalli, UM.**, Kottayi, N.M., and Mallick, R. B. - *International Journal of Pavement Research and Technology* (IJPRT). DOI: <https://doi.org/10.1007/s42947-019-0026-z>

Hot Mix Asphalt (HMA) Moisture Susceptibility Analysis: Material Loss to Mechanical Properties - **Arepalli, UM.**, Kottayi, N.M., Mathisen, P., Veeraragavan, A., and Mallick, R.B. - *SN Applied Sciences*. DOI: <https://doi.org/10.1007/s42452-019-1841-1>

Pavement M-E Design Preliminary Local Calibration Efforts and Implementation Plans for the state of Maine - Arepalli, UM. and Nener-Plante, D. [Working draft - Journal of Road Materials and Pavement Design]

Arepalli, UM., Munch, J., and Barman, M.- Performance Effectiveness of Crack Sealing Methods in the Cold Region. [Working draft – Canadian Journal of Civil Engineering]

Pavement M-E Design Preliminary Local Calibration Efforts using the Calibration Assistance Tool and Implementation Plans: MaineDOT's Experience and Perspective - **Arepalli, UM.**, Nash, C., and Nener-Plante, D. - 100th Annual Meeting of the Transportation Research Board (TRB), Washington, D.C., USA (2021)

Decision Trees for Selecting Asphalt Pavement Crack Sealing Method - Much, J., **Arepalli, UM.**, and Barman, M. - Presented at 99th Annual Meeting of the Transportation Research Board (TRB), Washington, D.C., USA (2020).

A Study of Hot-Mix Asphalt Susceptible to Moisture-Induced Material Loss - **Arepalli, UM.**, Mallick, R. B., Mathisen, P., Poulikakos, L., Griffa, M., Hartmann, S., and Nener-Plante, D. -

Presented at 96th Annual Meeting of the Transportation Research Board (TRB), Washington, D.C., USA (2017).

A Study of Moisture Induced Material Loss of Hot Mix Asphalt (HMA) - **Arepalli, UM.**, Kottayi. N.M., Mathisen, P., Veeraragavan, A., and Mallick, R.B. - Proceedings of 4th Conference of Transportation Research Group of India (CTRG), Mumbai, India. (2017).

TECHNICAL REPORTS (EXTERNALLY FUNDED PROJECTS)

Cost/Benefit Analysis of the Effectiveness of Crack Sealing Techniques - Barman, M., Munch, J., and **Arepalli, UM.** - Local Road Research Board, Minnesota Department of Transportation, St. Paul, Minnesota, USA - Final Report No. MN/RC 2019-26. (2019).

Experimental and Computational Investigations of High-Density Asphalt Mixtures. Marasteanu, M., Le, J., Hill, K.M., Yan, T., Man, T., Turos, M., Barman, M., **Arepalli, UM.**, Jared Munch. - Local Road Research Board, Minnesota Department of Transportation, St. Paul, Minnesota, USA. Final Report No. MN/RC 2019-26. (2019).

A Study of Moisture Induced Material Loss of Hot Mix Asphalt (HMA). - **Arepalli, UM.**, and Mallick, R. B. - Maine Department of Transportation. Augusta, Maine, USA. Final Report No. ME 17-09. (2017).