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EDUCATION

Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA ▪ 2003

Ph.D. in Civil and Environmental Engineering (Transportation and Infrastructure Systems)

Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA ▪ 1999

M.Sc. in Civil and Environmental Engineering (Materials)

Cairo University, Cairo, Egypt ▪ 1996

B.Sc. in Civil and Environmental Engineering – with project honors

PROFESSIONAL AND ACADEMIC EXPERIENCE

Louisiana State University – Department of Civil and Environmental Engineering

2025 to present	Graduate School Fellow, Graduate School, LSU
2023 to present	Artificial Intelligence (AI) Fellow, Office of Data and Strategic Analytics, LSU
2020 to present	Occidental Chemical Corporation Distinguished Professor, Baton Rouge, LA
2017 to 2019	Professor, Baton Rouge, LA
2015 to 2016	Associate Professor, Baton Rouge, LA
2012 to 2014	Lloyd Guillory Distinguished Associate Professor, Baton Rouge, LA
2011 to 2012	Lloyd Guillory Distinguished Assistant Professor, Baton Rouge, LA
2007 to 2011	Assistant Professor, Baton Rouge, LA

Bradley University – Department of Civil Engineering and Construction

2005 – 2007 Assistant Professor, Peoria, IL

University of Illinois at Urbana-Champaign

2004 – 2005 Research Scientist

Virginia Tech Transportation Institute

2003 Senior Research Associate, Virginia Tech Transportation Institute, VA

Virginia Polytechnic and State University

1998 Graduate Research Assistant, Virginia Tech, Blacksburg, VA

National Contractor Company

1997 Field Engineer, National Contractor Company, Cairo, Egypt

- Field engineer in the construction of an Olympic swimming pool in Cairo
- Helped prepare construction strategy for reinforced-concrete casting

Association Française pour La Formation Professionnel

1996 Assistant Manager, French Association for Professional Formation, Cairo, Egypt

- Responsible for bid preparation and assist in decision-making

TEACHING EXPERIENCE

Louisiana State University

2015 – 2024	CE 4780/4660	Infrastructure Condition Assessment
2013 – 2024	CE 4670	Fundamentals of Pavement Design
2010 – 2024	CE 7700/7660	Advanced Pavement Design
2008 – 2025	CE 7672	Pavement Management Systems
2012 – 2014	CE 7750	Graduate Seminar
2012 – 2016	CE 3300	Geotechnical Engineering
2007 – 2011	CE 2720	Numerical Methods for Engineers
2008	CE 3600	Traffic Engineering

Bradley University

2006 – 2007 Pavement Design with Laboratory
2005 – 2006 Geotechnical Engineering with Laboratory

Virginia Polytechnic and State University

2004 Asphalt Technology
2003 Assistant Lecturer – Pavement Design
2001 Lab Instructor – Civil Engineering Materials
2001 Assistant Lecturer – Finite Element Analysis of Structures

Misr International University

1998 Teaching Assistant and Lab Instructor – Mechanical and Chemical Behavior of Materials

HONORS AND AWARDS

- William A. Brookshire Award for Teaching Excellence – 2025
    - College of Engineering
    - Louisiana State University
- Top Scholar by Scholar GPS – 2025
    - Named a Top Scholar by Scholar GPS - Ranked # 17 in Road Surface among 9,009 scholars and # 65 in Transportation Engineering among 14,858 scholars worldwide
- ASCE Fellow – 2019
    - American Society for Civil Engineers
- Editor's Choice Award – 2019
    - ASCE Journal of Transportation Engineering
- Educational Achievement Award – 2018
    - Department of Civil and Environmental Engineering
    - Louisiana State University
- Guest Editor – 2018
    - Cracking in Flexible Pavements and Asphalt Mixtures: Theories, Modeling and Testing for Mitigation. International Journal of Pavement Engineering, 19(3), p. 191 – Edited by M.A. Elseifi and Hasan Ozer.
- Editor's Choice Award – 2017
    - Canadian Journal of Civil Engineering
- Michael R. Mangham Tiger Athletic Foundation Undergraduate Teaching Award – 2013
    - Louisiana State University
- ASCE Outstanding Reviewer Award – 2013
    - Journal of Engineering Mechanics
- ASCE Outstanding Reviewer Award – 2013
    - Journal of Nanomechanics and Micromechanics
- Research Achievement Award – 2013
    - Department of Civil and Environmental Engineering
    - Louisiana State University
- Runner-up of the W.J. Emmons Annual Award – 2010

- Association of Asphalt Paving Technologist (AAPT)
- Runner-up for the best paper at the AAPT 2010 Annual Meeting

- Grant D. Mickle Award – 2006
  - Transportation Research Board (TRB)
  - Best paper published in the field of operation, safety, and maintenance of transportation facilities
- Individual Heuser Research Award – 2006
  - Bradley University
- Interdisciplinary Heuser Research Award – 2006
  - Bradley University
- Caterpillar Fellowship – 2005
  - Bradley University
- The Paul E. Torgersen Research Excellence Award – 2004
  - College of Engineering – Virginia Tech
  - Top research performed by graduating Masters and Doctoral students
- Runner-up of the NAGS student awards – 2001
  - North American Geosynthetics Society
  - Best student paper
- 15th Annual Research Symposium at Virginia Tech – 1999
  - Virginia Tech

AWARDED RESEARCH GRANTS (TOTAL: $8,955,000)

1. 2024: Effective Implementation of Electric Scooters as a Shared Micro-Mobility Systems on University Campuses – Agency: Spin, Inc. – Amount: $75,000 – Function: PI
2. 2023-2027: Southern Plains Transportation Center (SPTC) - University Transportation Center – Agency: USDOT – Amount: $1,250,000 – Function: PI
3. 2023: Economic, Environmental, and Social Characteristics of E-Scooters on LSU Campus – Agency: Tran-SET and SPIN, Inc. – Amount: $100,000 – Function: PI
4. 2022: A New Generation of Multi-Functional Asphalt Mixtures with Superhydrophobic and Luminescent Properties – Agency: Tran-SET – Amount: $40,000 – Function: PI
5. 2022: Effect of Mineral Fillers on the Moisture Resistance and Performance of HMA – Agency: LTRC – Amount: $170,491 – Function: PI
6. 2021: A New Generation of Dense-Graded Asphalt Mixtures with Superior Performance against Stripping and Moisture Damage – Agency: Tran-SET – Amount: $20,001 – Function: PI
7. 2021: A Deep Learning Tool for the Assessment of Pavement Smoothness and Aggregate Segregation during Construction – Agency: Tran-SET – Amount: $20,001 – Function: PI
8. 2020: A New Generation of Porous Asphalt Pavement – Agency: LTRC – Amount: $119,610 – Function: PI
9. 2018: Cost-Effective Detection and Repair of Moisture Damage in Pavements – Agency: LTRC – Amount: $177,371 – Function: PI

10. 2018: Evaluation of Asphalt Rubber and Reclaimed Tire Rubber in Chip Seal Applications – Agency: LTRC – Amount: $132,995 – Function: PI
11. 2016: Transportation Consortium of South-Central States (TRAN-SET) – University Transportation Center – Agency: USDOT – Amount: $4,373,697 – Function: Co-PI
12. 2016: Improving the Use of Crack Sealing to Asphalt Pavement in Louisiana – Agency: LTRC/LADOTD – Amount: $250,000 – Function: PI
13. 2015: Use of Steel Fibers for Induction Heating and Self-Healing in Asphalt concrete – Agency: LTRC – Amount: $30,000 – Function: PI
14. 2015: Lime Utilization in the Laboratory, Field, and Design of Pavement Layers – Agency: LTRC/LADOTD – Amount: $48,493 – Function: PI
15. 2014: Assessment of Structural Capacity Indicators from Rolling Wheel Deflectometer Data Collection in Louisiana – Agency: LTRC/LADOTD – Amount: $ 170,213 – Function: PI.
16. 2014: NCHRP Project 20-07 on Hamburg Wheel-Track Test Equipment Requirements and Improvements to AASHTO T 324 – Agency: NCHRP – Amount: $100,000 – Function: Co-PI.
17. 2013: Mitigation Strategies for Reflective Cracking in Pavement – Agency: Southeast Transportation Consortium – Amount: $30,000 – Function: PI
18. 2013: Use of Infrared Thermography to Control the Quality of Joints Construction and to Detect Reflective Cracking in Asphalt Pavements – Agency: Gulf Coast Center for Evacuation and Transportation Resiliency – Amount: $25,000 – Function: PI
19. 2013: NCHRP Project 9-40A on Field Implementation of the Louisiana Interface Shear Strength Test – Agency: NCHRP – Amount: $186,407 – Function: Co-PI
20. 2011: Evaluation of the Thixotropy of Asphalt Binder Modified with Recycled Asphalt Shingles – Agency: NSF – EPSCOR Research Infrastructure Improvement Program – Amount: $10,000 – Function: PI
21. 2010: A New Approach to Recycle Asphalt Shingles in Hot Mix Asphalt – Agency: NSF – Amount: $163,952 – Function: PI.
22. 2009: NCHRP Project 9-48 on Field versus Laboratory Volumetrics and Mechanical Properties – Agency: NCHRP – Amount: $600,000 – Function: Co-PI.
23. 2009: Implementation of Rolling Wheel Deflectometer (RWD) in PMS and Pavement Preservation – Agency: LADOTD/LTRC – Amount: $134,600 – Function: PI.
24. 2009: A Heterogeneous-Based Modeling Approach to Describe the Constitutive Behavior of Asphalt Concrete – Agency: BOR-RCS – Amount: $119,243 – Function: PI.
25. 2008: Cost-Effective Prevention of Reflective Cracking of Composite Pavement – Agency: LADOTD/LTRC – Amount: $165,000 – Function: PI.
26. 2008: Analysis of Seasonal Strain Measurements in Asphalt Materials under Accelerated Pavement Testing and Comparing Field Performance and Laboratory Measured Binder Tension Properties – Agency: LADOTD/LTRC – Amount: $115,000 – Function: PI.
27. 2008: Effectiveness of Geogrid to Prevent Soil Damage during Highway Construction – Longwell Family Foundation – Amount: $19,745 – Function: PI.
28. 2006: Determination of Usable Residual Asphalt Binder in RAP – Agency: IDOT – Amount: $190,000 – Function: Co-PI.
29. 2006: Evaluation of HMA Sampling Techniques – Agency: IDOT – Amount: $22,100 – Function: PI.

30. 2006: Nighttime Construction: Evaluation of Lighting Glare for Highway Construction in Illinois – Agency: IDOT – Amount: $218,684 – Function: Co-PI.
31. 2005: Evaluation of Heavy-Equipment Induced-Damage on Soft Soil – Agency: Caterpillar Fellowship – Amount: $5,000 – Function: PI.

RESEARCH AND TEACHING INTERESTS

- Sustainable Infrastructure Materials
- Machine Learning Applications in Transportation
- Circular Economy and Carbon Neutrality of Transportation
- Pavement Evaluation and Management
- Tire-Pavement Interaction
- Infrastructure Condition Assessment
- Pavement Modeling and Analysis

MEMBERSHIPS, LEADERSHIP, TRAINING, AND LICENSING

2024	Community Engagement and Participation Training – SPTC
2023	Associate Director – Southern Plains Transportation Center (SPTC)
2023	Associate Editor – Journal of the Transportation Research Record (TRR) - TRB
2022 – 2023	Senator, LSU Faculty Senate
2021	Coordinator of Faculty Mentoring Committees for the CEE Department, LSU
2020	Service-Learning Online Faculty Scholars Program
2019	Fellow, American Society of Civil Engineering (ASCE)
2016	Editorial Board Member, International Journal of Pavement Engineering
2015	Member of ASCE Highway Pavement Committee
2014	Certified Instructor – National Highway Institute
2011	Professional Engineer (VA – License Number: 0402042745)
2011	Associate Editor – ASCE Journal of Transportation Engineering
2010 – 2016	Member of the TRB committee AFD40 on Full-Scale Accelerated Pavement Testing
2017 – 2020	Research Coordinator for TRB committee AFD30 on General and Emerging Pavement Design
2017 – 2020	Member of the TRB committee AFD30 on General and Emerging Pavement Design
2009 – 2021	Member of the TRB committee AFD80 on Pavement Structural Modeling and Evaluation
2009	Member of the Association of Asphalt Paving Technologists (AAPT)
2009	Faculty Development Workshop ENG2 Project, Stem Talent Expansion Program (STEP) sponsored by NSF

2008	Communication across the Curriculum Summer Institute, 4th Annual CxC Summer Institute at LSU
2003	American Society of Testing Materials (ASTM)
2002	NCAT professor training in Auburn, Alabama
1999	Friend of TRB committee on Subsurface Drainage
1999	Friend of TRB committee on Pavement Rehabilitation
1999	Friend of TRB committee on Flexible Pavement Design
1998	Friend of TRB subcommittee on Geosynthetics in Pavement Systems
1998	Member of American Society of Civil Engineering (ASCE)

PUBLICATIONS AND PAPERS

Refereed Journal Publications (121 Journal Publications) – Asterisks indicate Graduate Students Supervised as Main Advisor – Hirsch's h Index = 44 – 6,150 Citations

1. Elseifi, M.A., Al-Qadi, I.L., Loulizi, A., and Wilkes, J. (2001). "Performance of a geocomposite membrane as a pavement moisture barrier," Journal of the Transportation Research Board 1772, National Research Council, Washington, D.C., 168-173.
2. Elseifi, M.A., Al-Qadi, I.L., Flintsch, G.W., and Masson, J.F. (2002). "Viscoelastic modeling of straight and modified binders using the matching function approach," International Journal of Pavement Engineering, ISSN 1029-8436, Vol. 3, No. 1, 53-61.
3. Elseifi, M.A., Al-Qadi, I.L., and Flintsch, G.W. (2003). "Quantitative effect of elastomeric modification on binder performance at intermediate and high temperatures," Journal of Materials in Civil Engineering, American Society of Civil Engineering, Vol. 15, No. 1, 32-40.
4. Al-Qadi, I.L., Elseifi, M.A., and Leonard, D. (2003). "Development of an overlay design model for reflective cracking with and without steel reinforcement," Journal of the Association of Asphalt Pavement Technologists, Vol. 72, 388-423.
5. Al-Qadi, I.L., Lahouar, S., Loulizi, A., Elseifi, M.A., and Wilkes, J.A. (2004). "Quantifying the benefits of a geocomposite membrane as a pavement moisture barrier using ground penetrating radar and falling weight deflectometer," Journal of Transportation Engineering, American Society of Civil Engineering, Vol. 130, No. 5, 658-664.
6. Elseifi, M.A., and Al-Qadi, I.L. (2004). "A simplified overlay design model against reflective cracking utilizing service life prediction," International Journal on Road Materials and Pavement Design, Vol. 5, No. 2, 169-191.
7. Al-Qadi, I.L., Loulizi, A., Elseifi, M.A., and Lahouar, S. (2004). "The Virginia Smart Road: The impact of pavement instrumentation on understanding pavement performance," Journal of the Association of Asphalt Pavement Technologists, Vol. 73, 427-465 **(Cited 274 times)**.
8. Elseifi, M.A., and Al-Qadi, I.L. (2005). "Effectiveness of steel reinforcing nettings in combating fatigue cracking in new pavement systems," Journal of Transportation Engineering, American Society of Civil Engineers, Vol. 131, No. 1, 37-45.

9. Elseifi, M.A., and Al-Qadi, I.L. (2005). "Modeling and validation of strain energy absorbers for rehabilitated cracked flexible pavements," Journal of Transportation Engineering, American Society of Civil Engineers, Vol. 131, No. 9, 653-661.
10. Al-Qadi, I.L., Hassan, M., and Elseifi, M.A. (2005). "Field and theoretical evaluation of thermal fatigue cracking in flexible pavements," Journal of the Transportation Research Board 1919, National Research Council, Washington, D.C., 84-95.
11. Elseifi, M.A., Al-Qadi, I.L., Yoo, P.J., and Janajreh, I. (2005). "Quantification of pavement damage due to dual and wide-base tires," Journal of the Transportation Research Board 1940, National Research Council, Washington, D.C., 125-135.
12. Al-Qadi, I.L., Yoo, P.J., Elseifi, M.A., and Janajreh, I. (2005). "Effects of tire configurations on pavement damage," Journal of the Association of Asphalt Pavement Technologists, Vol. 74, 921-962.
13. Elseifi, M.A., Al-Qadi, I.L., and Yoo, P.J. (2006). "Viscoelastic modeling and field validation of flexible pavements," Journal of Engineering Mechanics, American Society of Civil Engineers, Vol. 132, No. 2, 172-178 **(Cited 262 times)**.
14. Yoo, P.J., Al-Qadi, I.L., Elseifi, M.A., and Janajreh, I. (2006). "Flexible pavement responses to different loading amplitudes considering layer interface condition and lateral shear forces," International Journal of Pavement Engineering, Vol. 7, No. 1, 73-86.
15. Al-Qadi, I.L., Fini, E.H., Elseifi, M.A., Masson, J-F., and McGhee, K.M. (2006). "Viscosity determination of hot-poured bituminous sealants," Journal of the Transportation Research Board 1958, National Research Council, Washington, D.C., 74-81.
16. Elseifi, M.A., Al-Qadi, I.L., Dessouky, S., and Yang, S-H. (2006). "A viscoelastic model to describe the mechanical response of bituminous sealants at low temperature," Journal of the Transportation Research Board 1958, National Research Council, Washington, D.C., 82-89 **(Grant D. Mickle Award - Best TRB Paper Award)**.
17. Loulizi, A., Al-Qadi, I.L., Elseifi, M.A. (2006). "Difference between in situ flexible pavement measured and calculated stresses and strains," Journal of Transportation Engineering, ASCE, Vol. 132, No. 7, 574-579.
18. Al-Qadi, I.L., and M.A. Elseifi. (2006). "Mechanism and modeling of Transverse cracking development in continuously reinforced concrete pavement," International Journal of Pavement Engineering, 7:4, pp. 341-349.
19. Fini, E.H., Elseifi, M.A., Masson, J-F., McGhee, K.M., and Al-Qadi, I.L. (2007). "Development of a viscosity specification for hot-poured bituminous sealants," Journal of Testing and Evaluation, ASTM, Vol. 35, No. 4.
20. Al-Qadi, I.L., and Elseifi, M.A. (2007). "New generation of wide-base tire and its impact on trucking operations, environment, and pavements," Journal of the Transportation Research Board 2008, National Research Council, Washington, D.C., 100-109.
21. Elseifi, M.A., I.L. Al-Qadi, S-H. Yang, and S. Carpenter. (2008). Validity of Asphalt Binder Film Thickness Concept in Hot-Mix Asphalt. Transportation Research Record: Journal of the Transportation Research Board, No. 2057, Washington, D.C., 37-45.
22. Hassan, M.M., Elseifi, M.A., Wakim, J., and Elrayes, K. (2008). Measurement of Pavement Surface Reflectance for a Balloon Lighting System. ASCE, Journal of Transportation Engineering, Vol. 134, No. 10, 432-437.

23. Al-Qadi, I.L, Elseifi, M.A., Yoo, P.J., Dessouky, S.H., Gibson, N., Harman, T., D' Angelo, J., and Petros, K. (2008). Accuracy of Current Complex Modulus Selection Procedure from Vehicular Load Pulse in NCHRP 1-37A Mechanistic-Empirical Pavement Design Guide. Transportation Research Record: Journal of the Transportation Research Board, No. 2087, Washington, D.C., 81-90.
24. Al-Qadi, I.L., Xie, W., and Elseifi, M.A. (2008). Frequency Determination from Vehicular Loading Time Pulse to Predict Appropriate Complex Modulus in MEPDG. Journal of the Association of Asphalt Paving Technologists, Vol. 77, 739-772.
25. Mohammad, L.N., A. Bae, M.A. Elseifi, J.W. Button, and J.A. Scherocman. (2009). Development of Pull-off Test Device and Methodology to Evaluate Bond Strength of Tack Coat Materials in the Field. Journal of the Transportation Research Board, No. 2126, Washington, D.C., 1-11.
26. Mohammad, L.N., A. Bae, M.A. Elseifi, J.W. Button, and J.A. Scherocman. (2009). Interface Shear Strength Characteristics of Emulsified Tack Coats. Journal of the Association of Asphalt Paving Technologists, Vol. 78, 249-279 **(2nd Best AAPT Paper Award)**.
27. Al-Qadi, I.L, P.J. Yoo, M.A. Elseifi, and S. Nelson. (2009). Creep Behavior of Hot-Mix Asphalt Due to Heavy Vehicular Loading. Journal of Engineering Mechanics, ASCE, Vol. 135, No. 11, pp. 1265-1273.
28. Elseifi, M.A., L.N. Mohammad, I. Glover, I. Negulescu, W.H. Daly, and C. Abadie. (2010). Relationship between Molecular Compositions and Rheological Properties of Neat Asphalt Binder at Low and Intermediate Temperatures. Journal of Materials in Civil Engineering, ASCE, Vol. 22, No. 12, pp. 1288-1294.
29. Mohammad, L.N., A. Bae, M.A. Elseifi, J.W. Button, and N. Patel. (2010). Effects of Pavement Surface Type and Sample Preparation Method on Tack Coat Interface Shear Strength. Transportation Research Record: Journal of the Transportation Research Board, 2180, Washington, D.C., pp. 93-101.
30. Bae, A., L.N. Mohammad, M.A. Elseifi, J.W. Button, and N. Patel. (2010). Effects of Temperature on the Interface Shear Strength of Emulsified Tack Coats and Its Relationship to Rheological Properties. Transportation Research Record: Journal of the Transportation Research Board, 2180, Washington, D.C., pp. 102-109.
31. Elseifi, M.A., Trepanier, J., Wakefield, H., Pine, W.J., and Dahhan, A. (2011). The State of Practice in Hot-Mix Asphalt Sampling. International Journal of Pavement Engineering, Vol. 12, No. 2, pp. 111-119.
32. Cooper, S.B., L.N. Mohammad, and M.A. Elseifi. (2011). Laboratory Performance Characteristics of Sulfur-Modified Warm-Mix Asphalt. Journal of Materials in Civil Engineering, ASCE, Vol. 23, No. 9, pp. 1338-1345.
33. Elseifi, M.A., L.N. Mohammad, and S.B. Cooper*. (2011). Laboratory Evaluation of Asphalt Mixtures Containing Sustainable Technologies. Journal of the Association of Asphalt Paving Technologists, Vol. 80, pp. 227-254.
34. Elseifi, M.A., R. Bandaru*, Z. Zhang, and S. Ismail. (2011). Field Evaluation and Cost Effectiveness of the Saw and Seal Method to Control Reflection Cracking in Composite Pavements. Transportation Research Record: Journal of the Transportation Research Board, 2227, Washington, D.C., pp. 33-42.

35. Mohammad, L.N., S.B. Cooper, and M.A. Elseifi. (2011). Characterization of HMA Mixtures Containing High Reclaimed Asphalt Pavement Content with Crumb Rubber Additives. ASCE Special Edition, Vol. 23, No. 11, 1560-1568.
36. Elseifi, M.A., L.N. Mohammad, E. Kassem, H. Ying*, and E. Masad. (2011). Quantification of Damage in the Dynamic Complex Modulus and Flow Number Tests Using X-Ray Computed Tomography. Journal of Materials in Civil Engineering, ASCE, Vol. 23, No. 12, 1687-1696.
37. Elseifi, M.A., A. Abdel-Khalek*, K. Gaspard, Z. Zhang, and S. Ismail. (2012). Evaluation of Continuous Deflection Testing Using the Rolling Wheel Deflectometer in Louisiana. Journal of Transportation Engineering, ASCE, Vol. 138, No. 4, 414-422.
38. Cooper, S.B., M.A. Elseifi, and L.N. Mohammad. (2012). Parametric Evaluation of Design Input Parameters in the Mechanistic-Empirical Pavement Design Guide Predicted Performance. International Journal of Pavement Research and Technology, Vol. 5, No. 4, 218-224.
39. Cooper, S.B., L.N. Mohammad, M. Nazzal , and M.A. Elseifi. (2012). Evaluation of the Influence of Variation of Superpave HMA Mixtures Physical Properties on Pavement Performance. International Journal of Pavement Research and Technology, Vol. 5, No. 4, 267-276.
40. Cooper, S., M.A. Elseifi, L.N. Mohammad, and M.M. Hassan. (2012). Performance and Cost-Effectiveness of Sustainable Technologies in Flexible Pavements Using Mechanistic-Empirical Pavement Design Guide. Journal of Materials in Civil Engineering, ASCE, Vol. 23, No. 2, pp. 239-247.
41. Elseifi, M.A., S. Salari*, L.N. Mohammad, M. Hassan, W. Daly, and S. Dessouky. (2012). A New Approach to Recycle Asphalt Shingles in Hot Mix Asphalt. Journal of Materials in Civil Engineering, ASCE, Vol. 24, No. 11, 1403-1411.
42. Elseifi, M.A., L.N. Mohammad, W. King, and Z. Zhang. (2012). Assessment of Stress and Strain Instrumentation in Accelerated Pavement Testing. International Journal of Pavement Research and Technology, Vol. 5, No. 2, 121-127.
43. Mohammad, L.N., M.A. Elseifi, S. Cooper, and A. Raghavendra. (2012). Evaluating Effects of Volumetric and Mechanistic Test Variability on Predicted Performance of Asphalt Pavement: Applying the Mechanistic-Empirical Pavement Design Guide. Transportation Research Record: Journal of the Transportation Research Board, 2268, Washington, D.C., 43-49.
44. Elseifi, M.A., L.N. Mohammad, H. Ying*, and S. Cooper. (2012). Modeling and Evaluation of the Semi-Circular Bending Test for Intermediate Temperature Cracking of Asphalt Mixtures. Road Materials and Pavement Design, Vol. 13, No. 1, 124-139.
45. Kim, M., L.N. Mohammad, and M.A. Elseifi. (2012). Characterization of Fracture Properties of Asphalt Mixtures as Measured by Semi-Circular Bend Test and Indirect Tension Test. Transportation Research Record: Journal of the Transportation Research Board, No. 2296, Washington, D.C., 115-124.
46. Abdel-Khalek*, A., M.A. Elseifi, K. Gaspard, and Z. Zhang. (2012). A Model to Assess Pavement Structural Conditions at the Network Level. Transportation Research Record: Journal of the Transportation Research Board, No. 2304, Washington, D.C., 142-149.

47. Elseifi, M.A., K. Dasari*, A. Abdel-Khalek*, K. Gaspard, and Z. Zhang. (2013). Development of the Structural Capacity Triangular Model for Pavement Evaluation Using the Rolling Wheel Deflectometer. Journal of Transportation Engineering, ASCE, Vol. 139, No. 3, 313-320.
48. Gaspard, K., P. Icenogle, C. Abadie, Z. Zhang, and M.A. Elseifi. (2013). Historical Performance of Rubblized Jointed Portland Cement Concrete Pavement Overlaid with Asphaltic Concrete in the State of Louisiana. International Journal of Pavement Research and Technology, Volume 6, No. 3, 165-174.
49. Gaspard, K., Z. Zhang, and M.A. Elseifi. (2013). Integration of Rolling Wheel Deflectometer Deflection Measurements into Pavement Management Systems: Use of Multivariate Statistical Methods and Fuzzy Logic. Transportation Research Record: Journal of the Transportation Research Board, No. 2366, Washington, D.C., 25-33.
50. Mohammad, L.N., M.A. Elseifi, S. Cooper, A. Raghavendra. (2013). Levels of Variability in Volumetric and Mechanical Properties of Asphalt Mixtures. Journal of Materials in Civil Engineering, ASCE, Vol. 25, No. 10, 1424-1431.
51. Mohammad, L.N., M.A. Elseifi, S. Cooper, H. Challa, and P. Naidoo. (2013). Laboratory Evaluation of Asphalt Mixtures Containing Bio-Binder Technologies. Transportation Research Record: Journal of the Transportation Research Board, No. 2371, Washington, D.C., 58-65.
52. Cooper, S.B., L.N. Mohammad, and M.A. Elseifi. (2013). Evaluation of Asphalt Mixtures Containing Renewable Binder Technologies. International Journal of Pavement Research and Technology. Vol. 6, No. 5, 570-575.
53. Ying*, H., M.A. Elseifi, and L.N. Mohammad. (2014). Heterogeneous Finite Element Modeling of the Dynamic Complex Modulus Test of Asphalt Mixture Using X-ray Computed Tomography. ASCE Journal of Materials in Civil Engineering, Vol. 26, No. 9, 04014052-1 to 04014052-7.
54. Alvergue*, A., M.A. Elseifi, L.N. Mohammad, S.B. Cooper, and S. Cooper III. (2014). Laboratory Evaluation of Asphalt Mixtures with Reclaimed Asphalt Shingle Prepared Using the Wet Process. 89th Association of Asphalt Paving Technologists' Annual Meeting, Road Materials and Pavement Design, Vol. 15, No. 1, 62-77.
55. Cooper, S.B., L.N. Mohammad, and M.A. Elseifi. (2014). Laboratory Performance of Asphalt Mixtures Containing Recycled Asphalt Shingles. Transportation Research Record: Journal of the Transportation Research Board, No. 2445, Washington, D.C., 94-102.
56. Kim, M., L.N. Mohammad, and M.A. Elseifi. (2015). Effects of Various Extrapolation Techniques for Abbreviated Dynamic Modulus Test Data on the MEPDG Rutting Predictions. Journal of Marine Science and Technology. Vol. 23, No. 3, 353-363.
57. Elseifi, M.A., K. Gaspard, P.W. Wilke, Z. Zhang, and A. Abdel-Khalek*. (2015). Evaluation and Validation of a Model to Predict Pavement Structural Number Using Rolling Wheel Deflectometer (RWD) Data. Transportation Research Record: Journal of the Transportation Research Board, No. 2525, Washington, D.C., 13-19.
58. Cooper, S.B., L.N. Mohammad, M.A. Elseifi, and A. Raghavendra. (2015). Dynamic Modulus of Asphalt Mixtures: Evaluation of Effects on Pavement Performance Prediction. Transportation Research Record: Journal of the Transportation Research Board, No. 2507, Washington, D.C., 67-77.

59. Cooper, S.B., L.N. Mohammad, M.A. Elseifi, and A. Raghavendra. (2015). Laboratory-Measured Dynamic Modulus and Predicted Performance of Asphalt Mixtures: Effects of Specimen Orientation. Transportation Research Record: Journal of the Transportation Research Board, No. 2507, Washington, D.C., 78-89.
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4. Al-Qadi, I.L., Elseifi, M.A., and Freeman, T.E. (2002). "Steel reinforcing netting mechanism to abate reflective cracking in asphalt concrete overlays," Paper No. 02-2615 presented at the Transportation Research Board 81st Annual Meeting, Washington, D.C. (Paper selected for the 2002 TRB Catalog of Practical Papers - Paper of Immediate Practical Interest to State Department of Transportation Professionals).

5. Elseifi, M.A., and Al-Qadi, I.L. (2003). "A simplified overlay design model against reflective cracking utilizing service life prediction," Paper No. 03-3285 presented at the Transportation Research Board 82nd Annual Meeting, Washington, D.C.

6. Al-Qadi, I.L., Elseifi, M.A., Yoo, P.J., and Janajreh, I. (2004). "Effect of wide-base and dual tires configurations on pavement damage," Paper presented at the Twenty-third Annual Meeting and Conference on Tire Science and Technology, Akron, Ohio.

7. Loulizi, A., Al-Qadi, I.L., Elseifi, M.A., and Freeman, T. (2004). "Comparison between measured and calculated stresses and strains induced by truck loadings in flexible pavements," Paper No. 04-4033 presented at the Transportation Research Board 83rd Annual Meeting, Washington, D.C.

8. Al-Qadi, I.L., Elseifi, M.A., Yoo, P.J., and Janajreh, I. (2004). "Effect of wide-base and dual tires configurations on pavement damage," Paper No. 04-4935 presented at the Transportation Research Board 83rd Annual Meeting, Washington, D.C.

9. Elseifi, M.A., and Al-Qadi, I.L. (2004). “Effect of thermal and vehicular loading on rehabilitated jointed concrete pavement with and without steel reinforcing netting,” Proceedings of the 5th RILEM international conference on pavement cracking, Limoges, France, 207-214.

10. Al-Qadi, I.L., and Elseifi, M.A. (2004). “Field installation and design considerations of steel reinforcing nettings to reduce reflection of cracks,” Proceedings of the 5th RILEM international conference on pavement cracking, Limoges, France, 97-104.

11. Al-Qadi, I.L., Elseifi, M.A., and Yoo, P.J. (2004). “In-Situ validation of mechanistic pavement finite element modeling,” Proceedings of the 2nd International Conference on Accelerated Pavement Testing, Minneapolis.

12. Al-Qadi, I.L., Yang, S-H., Elseifi, M.A., Masson, J-F., and McGhee, K.K. (2006). “Characterization of bituminous-sealants utilizing modified bending beam rheometer,” Paper No. 06-1882 presented at the Transportation Research Board 85th Annual Meeting, Washington, D.C.

13. Al-Qadi, I.L., Fini, E.H., Elseifi, M.A., Figueroa, H., Masson, J-F., and McGhee, K.K. (2007). “Repeatability and reproducibility of the newly developed hot-poured bituminous sealant viscosity test,” Paper No. 07-2789 presented at the Transportation Research Board 86th Annual Meeting, Washington, D.C.
14. Hassan, M.M., Elseifi, M.A., Wakim, J., and Elrayes, K. (2008). Evaluation of Pavement Reflectance Characteristics for a Balloon Lighting System. Paper No. 08-0522 Presented at the 87th Transportation Research Board Annual Meeting, Washington, D.C.
15. Elseifi, M.A., Trepanier, J., Wakefield, H., Pine, W.J., and Dahhan, A. (2009). Hot-Mix Asphalt Sampling Techniques and Methods of Acceptance – State DOT’s Practice. Paper No. 09-1514 Presented at the 88th Transportation Research Board Annual Meeting, Washington, D.C.

16. Mohammad, L.N., A. Bae, and M.A. Elseifi. (2009). Effect of Tack Coat Materials and Application Rate on the Interface Shear Strength, Paper presented at the 6th International Conference on Maintenance and Rehabilitation of Pavements and Technological Control (MAIREPAV6), Turin, Italy.

17. Mohammad, L.N., A. Bae, M.A. Elseifi, and N. Patel. (2010). Factors that influence the performance of interface shear strength of pavement interlayers, Proceedings of the 24th AARB Conference, Melbourne, Victoria, Australia.

18. Mohammad L.N., M.A. Elseifi, and S. Cooper. (2010). Laboratory Evaluation of Sulfur-Extended Warm-Mix Asphalt, 2nd International Conference on Construction in Developing Countries (ICCIDC–II), Cairo, Egypt.

19. Elseifi, M.A., Mohammad, L.N., Dessouky, S., Yang, W., and Ying, H. (2010). A Viscoelastic Model to Describe the Constitutive Behavior of Unmodified Asphalt Binders at Low Temperatures. ASCE Special Edition, Pavements and Materials: Testing and Modeling in Multiple Length Scales, Edited by R.A. Tarefder, Y. Kim, Z. You, and L. Wang, pp. 1-15.

20. Bandaru, R., M.A. Elseifi, R.A. Desselle, and V.L. Das. (2011). Evaluation of the Mechanistic-Empirical Pavement Design Procedure in Louisiana, Paper No. 11-1163 presented at the 90th Transportation Research Board Annual Meeting, Washington, D.C.

21. Cooper, S.B., M.A. Elseifi, and L.N. Mohammad. (2011). MEPDG Sensitivity Analysis of Louisiana HMA Mixtures Utilizing a Statistically-Based Factorial Design, Paper No. 11-1196 presented at the 90th Transportation Research Board Annual Meeting, Washington, D.C.

22. Elseifi, M.A., A. Abdel-Khalek, K. Gaspard, Z. Zhang, and S. Ismail. (2011). Evaluation of the Rolling Wheel Deflectometer as a Structural Pavement Assessment Tool in Louisiana, Proceedings of the ASCE T&DI Congress 2011, Integrated Transportation and Development for a Better Tomorrow, Chicago, IL, 628-637.

23. Abdel-Khalek, A., M.A. Elseifi, K. Gaspard, and Z. Zhang. (2012). A Model to Assess Pavement Structural Conditions at the Network Level. Paper No. 12.1798 presented at the 91st Transportation Research Board Annual Meeting, Washington, D.C.

24. Elseifi, M.A., K. Dasari, K. Gaspard, and Z. Zhang. (2012). Development of the Structural Capacity Triangular Model for Pavement Evaluation Using the Rolling Wheel Deflectometer. Paper No. 12-3493 presented at the 91st Transportation Research Board Annual Meeting, Washington, D.C.

25. Mohammad, L.N., M.A. Elseifi, and S. Cooper. (2012). The Use of Sustainable Pavement Materials in Asphalt Mixtures. 7th International Conference on Maintenance and Rehabilitation of Pavements and Technological Control, Auckland, New Zealand.

26. Mohammad, L.N., M. Kim, M.A. Elseifi. (2012). Characterization of Asphalt Mixture's Fracture Resistance Using the Semi-Circular Bending (SCB) Test. 7th RILEM International Conference on Cracking in Pavements: Mechanisms, Modeling, Testing, Detection, Prevention and Case Histories. Delft, Netherlands, 1-10.

27. Ying, H., M.A. Elseifi, L.N. Mohammad, and H.A. Aglan. (2013). A Crack Propagation Model for Asphalt Mixtures Based on the Cyclic Semi-Circular Bending Test. Paper No. 13-3515 presented at the 92nd Transportation Research Board Annual Meeting, Washington, D.C.

28. Kim, M. L.N. Mohammad, M.A. Elseifi, H. Challa. (2013). Permanent Deformation of Flexible Pavements: Laboratory and Field Performance Comparisons. Paper No. 13-3515 presented at the 92nd Transportation Research Board Annual Meeting, Washington, D.C.

29. Challa, H., L.N. Mohammad, M.A. Elseifi, and S. Cooper. (2013). Laboratory Performance of Asphalt Mixtures Containing Bio-Binders. ASCE T&DI Airfield and Highway Pavement Conference, Los Angeles, CA.

30. Dasari, K., M.A. Elseifi, S. Salari, and D. Osborn. (2013). Effects of Pavement Conditions on Effective Structural Number of In-Service Pavements. Proceedings of the ASCE T&DI Airfield and Highway Pavement Conference, Los Angeles, CA.

31. Salari, S., M.A. Elseifi, and L.N. Mohammad. (2013). Evaluation of the Effects of Recycled Asphalt Shingle on Binder Rheological Properties Using the Wet Process. Proceedings of the 7th International Structural Engineering and Construction Conference, New Developments in Structural Engineering and Construction, Honolulu, June 18-23, 2013.

32. Elseifi, M.A., and O. Sirin. (2013). Traffic-Speed Pavement Structural Evaluation to Enhance Mobility and Road Safety. Presentation made at the Qatar Foundation Annual Research Conference, November 24-25 2013, Doha, Qatar.
33. Zhang, Z., K. Gaspard, M.A. Elseifi, and Z. Wu. (2014). Use of Rolling Wheel Deflectometer Deflection Data in Pavement Management Systems for Flexible Pavement. Paper No. 14-0092 presented at the 93rd Transportation Research Board Annual Meeting, Washington, D.C.
34. Zhang, Z., K. Gaspard, and M.A. Elseifi. (2014). Evaluation of PMS Recommendation for Flexible Pavement Rehabilitation Using RWD Deflection Data. Paper No. 14-0091 presented at the 93rd Transportation Research Board Annual Meeting, Washington, D.C.
35. Mohammad, L.N., M.A. Elseifi, S.B. Cooper, A. Raghavendra, and H. Challa. (2014). Effects of Gauge Length and Specimen Orientation on Laboratory-Measured Dynamic Modulus of Asphalt Mixtures. Paper No. 14-5151 presented at the 93rd Transportation Research Board Annual Meeting, Washington, D.C.
36. Cooper, S., L.N. Mohammad, and M.A. Elseifi. (2014). Laboratory Performance of Asphalt Mixtures Containing Recycled Asphalt Shingles. Paper No. 14-4383 presented at the 93rd Transportation Research Board Annual Meeting, Washington, D.C.
37. Ying, H., M.A. Elseifi, L.N. Mohammad, and M. Hassan. (2014). Image-Based Modeling of the Dynamic Complex Modulus Test for Asphalt Concrete. Proceedings of T&DI Congress 2014: Planes, Trains, and Automobiles, Orlando, FL.
38. Elseifi, M.A., L.N. Mohammad, E. Kassem, H. Ying, and E. Masad. (2014). Damage in Asphalt Concrete during the Dynamic Complex Modulus and Flow Number Tests. Proceedings of the 12th International Society of Asphalt Pavement (ISAP), Raleigh, North Carolina, CRC Press, London, 71-78.
39. Elseifi, M.A., Alvergue, A., Mohammad, L.N., Cooper, S. B. (2014). Mechanistic and Rheological Properties of Asphalt mixtures with Recycled Asphalt Shingle Prepared Using the Wet Process. Paper presented at the 12th International Society of Asphalt Pavement (ISAP), Raleigh, North Carolina.
40. Cooper, S.B., L.N. Mohammad, and M.A. Elseifi. (2014). Infrastructure Sustainability: The Use of Recycled Asphalt Shingles in Flexible Pavements. Geo-Shanghai 2014, Shanghai, China, 69-78.
41. Kim, M., L.N. Mohammad, H. Challa, and M.A. Elseifi. (2015). Permanent Deformation in Flexible Pavements: Laboratory and Field Performance Comparisons. Paper No. 15-4396 presented at the 94th Transportation Research Board Annual Meeting, Washington, D.C.
42. Cooper, S., M.A. Elseifi, and L.N. Mohammad. (2016). Effects of Mixture Constituents and Reheating on the Mechanical Properties of Asphalt Mixtures. Paper No. 16-5122 presented at the 95th Transportation Research Board Annual Meeting, Washington, D.C.
43. Liu, X., A. Scarpas, I.L. Al-Qadi, and M.A. Elseifi. (2016). The Influence of Reinforcement Characteristics on the Shear Response of Interlayer Interfaces. Paper No. 16-3774 presented at the 95th Transportation Research Board Annual Meeting, Washington, D.C.

44. Elbagalati*, O., M.A. Elseifi, K. Gaspard, and Z. Zhang. (2016). Improved Structural Capacity Model for Flexible Pavement Based on Rolling-Wheel Deflectometer Deflection Measurements. Paper No. 16-3578 presented at the 95th Transportation Research Board Annual Meeting, Washington, D.C.
45. Kim, M., L.N. Mohammad, P. Phaltane, and M.A. Elseifi. (2016). Effects of Temperature Segregation on the Quality and Fracture Resistance of Asphalt Pavements. Paper No. 16-2745 presented at the 95th Transportation Research Board Annual Meeting, Washington, D.C.
46. Shirzad, S., M.A. Aguirre, L. Bonilla, M.A. Elseifi, S. Cooper, and L.N. Mohammad. (2017). Performance and Cost Effectiveness of Flexible Pavement containing Recycled Asphalt Shingles Using the Mechanistic-Empirical Approach. Paper No. 17-00555 presented at the 96th Transportation Research Board Annual Meeting.
47. Dhakal*, N., O. Elbagalati*, and M.A. Elseifi. (2017). Prediction of Damage from Wide-base and Dual-Tires Using Finite Element Analysis and Pavement Mechanistic-Empirical (ME). Paper No. 17-00953 presented at the 96th Transportation Research Board Annual Meeting.
48. Elbagalati*, O., Mousa*, M., M.A. Elseifi, K. Gaspard, and Z. Zhang. (2017). Development of a Methodology to Backcalculate Pavement Layer Moduli Using the Traffic Speed Deflectometer. Paper No. 17-00411 presented at the 96th Transportation Research Board Annual Meeting.
49. Cao, W., L.N. Mohammad, and M.A. Elseifi (2017). Asphalt Pavement Fatigue Performance Prediction Based on Semicircular Bending Test at Intermediate Temperature. Paper No. 17-05160 Presented at the 96th Transportation Research Board Annual Meeting, Washington, D.C.
50. Pamulapati*, Y., M.A. Elseifi, S.B. Cooper, III, L.N. Mohammad, O. Elbagalati*. (2017). Evaluation of Self-Healing Asphalt Concrete through Induction Heating and Metallic Fibers. Paper No. 17-02859 presented at the 96th Transportation Research Board Annual Meeting.
51. Elbagalati*, O., M.A. Elseifi, K. Gaspard, and Z. Zhang. (2017). A Model to Estimate Subgrade Resilient Modulus Based on Rolling Wheel Deflectometer Measurements. Paper No. 17-00548 presented at the 96th Transportation Research Board Annual Meeting.
52. Elbagalati*, O., M.A. Elseifi, K. Gaspard, and Z. Zhang. (2017). Development of an Enhanced Decision-Making Tool for Pavement Management Using a Supervised Pattern Recognition Algorithm. Paper No. 17-00934 presented at the 96th Transportation Research Board Annual Meeting.
53. Dhakal*, N., and M.A. Elseifi. (2017). Effects of Asphalt Mixture Characteristics and Vehicle Speed on Fuel Consumption Excess Using Finite Element Modeling. Paper No. 17-00424 presented at the 96th Transportation Research Board Annual Meeting.
54. Mousa*, M., A. Abdel-Khalek*, M.A. Elseifi. (2018). Development of a Tree-Based Algorithm for Prediction of Field Performance of Asphalt Concrete Overlays. Paper No. 18-02354 presented at the 97th Transportation Research Board Annual Meeting.

55. Bashar*, M.Z., M.A. Elseifi, M. Mousa*, Z. Zhang, and K. Gaspard. (2018). Performance and Cost-Effectiveness of Chip Seal in Louisiana. Paper No. 18-00550 presented at the 97th Transportation Research Board Annual Meeting.

56. Bashar*, M.Z., M.A. Elseifi, M. Mousa*, Z. Zhang, and S. Lahouar. (2018). Field Study to Detect Stripping in Asphalt Pavements Using Ground Penetrating Radar. Paper presented at the World Transport Convention, Beijing, China.

57. Rahman*, M.N., M.T. Sarkar*, and M.A. Elseifi. (2019). Rheological and Molecular Characterization of Rubberized Asphalt Emulsions. MATEC Web of Conferences, 2019 Tran-SET Annual Conference, https://doi.org/10.1051/matecconf/201927103001.

58. Mousa*, M., M.A. Elseifi, and M.Z. Bashar*. (2019). Use of LTPP Data to Quantify Moisture Damage under Crack Sealing and Surface Treatments in Asphalt Pavements. MATEC Web of Conferences, 2019 Tran-SET Annual Conference, https://doi.org/10.1051/matecconf/201927108005.

59. Dhakal*, N., M.Z. Bashar*, and M.A. Elseifi. (2019). Guidelines for Identification of Top-down Cracks (TDC) in In-Service Flexible Pavements. Paper presented at the 2019 CRC Conference, Montreal, Canada.

60. Mousa*, M., M.A. Elseifi, M.Z. Bashar*, Z. Zhang, and K. Gaspard. (2020). Cost-Effectiveness and Optimal Timing of Microsurfacing in Asphalt Concrete Overlays. Paper No. 20-03016 presented at the 99th Transportation Research Board Annual Meeting.

61. Rahman*, M.N., M.T. Sarkar*, M.A. Elseifi, C. Mayeux, and S.B. Cooper, III. (2020). Laboratory Performance of Tire Rubber Modified Asphalt Emulsion in Chip Seal Applications. Paper No. 20-03758 presented at the 99th Transportation Research Board Annual Meeting.

62. Dhakal*, N., M.A. Elseifi, I.L. Al-Qadi, and T. Rupnow. (2021). Fatigue and Reflective Cracking Mechanisms: Modeling and Accelerated Pavement Testing Validation. Paper No. 21-03175 presented at the 100th Transportation Research Board Annual Meeting, Washington, D.C.

63. Sarkar, M.T., Rahman, M.N. M.A. Elseifi, C. Mayeux, and S.B. Cooper, III. (2021). Evaluating the Performance of Crumb Rubber and High Float Polymer Modified Asphalt Emulsions in Chip Seal Applications. Paper No. 21-03868 presented at the 100th Transportation Research Board Annual Meeting, Washington, D.C.

64. Abohamer*, H., M.A. Elseifi, N. Dhakal*, Z. Zhang, C. Fillastre. (2021). Effects of Asphalt Concrete Stripping on the Performance and Cost-Effectiveness of Chip Seal and Asphalt Concrete Overlay in Hot and Humid Climates. Paper No. 21-00476 presented at the 100th Transportation Research Board Annual Meeting, Washington, D.C.

65. Dhakal*, N., M.A. Elseifi, Z. Zihan*, Z. Zhang, C. Fillastre, J. Upadhyay. (2021). Development of Artificial Neural Network (ANN) and Convolutional Neural Network (CNN) Applications to Classify Pavement Cracks as Top-down, Bottom-up, and Cement-Treated Reflective Cracking. Paper No. 21- 02021 presented at the 100th Transportation Research Board Annual Meeting, Washington, D.C.

66. Elseifi, M.A., M.N. Rahman*, and M.T. Sarkar*. (2021). Short-term Field Performance and Cost- effectiveness of Crumb-Rubber Modified Asphalt Emulsion. Conference on Enabling and Emerging Materials, Hosted by Qatar University and Texas A&M University at Qatar, Doha, Qatar.

67. Oyan, M.N.S., Z. Hossain, M.A. Elseifi. (2022). Evaluation of Moisture Susceptibility and Chemistry of Recovered Asphalt Binders. Proceedings of Tran-SET 2022, held in San Antonio, Texas, August 31- September 2, 2022, ASCE, https://doi.org/10.1061/9780784484609.001.

68. Paudel*, R., H. Abohamer*, M.A. Elseifi. (2023). Prediction of Pavement Roughness and Aggregate Segregation Using Convolutional Neural Network and Digital Image Analysis. Paper No. 23-03899 presented at the 102nd Transportation Research Board Annual Meeting, Washington, D.C.
69. Chowdhury*, M.A., M.A. Elseifi. (2024). Life-Cycle Assessment of Electric Scooter: A Comprehensive Sustainable Analysis of a Shared Micro-Mobility Option. Paper No. 23-01730 presented at the 103rd Transportation Research Board Annual Meeting, Washington, D.C.
70. Azucena, J.C, S.M. Tanvir*, M.A. Elseifi, H. Liao, and N. Kumar. (2025). Development of an Artificial Intelligence (AI)-Based Tool for the Design of Open-Graded Friction Course. Paper presented at the 104th Transportation Research Board (TRB) Annual Meeting, Washington, D.C.
71. Sarkar, M.T.A., and M.A. Elseifi. (2025). A New Generation of Multi-Functional Asphalt Emulsions with Hydrophobic and Luminescent Properties. Paper number TRBAM-25-04885 presented at the 104th Transportation Research Board (TRB) Annual Meeting, Washington, D.C.

Magazines and Bulletins

1. Elseifi, M.A. (2012). Recycling of Asphalt Shingles in Asphalt Pavements—A New Approach. C&D World, Official Publication of the Construction Materials Recycling Association, CMRA, Vol. 5, No. 3.

2. Mohammad, L.N., and M.A. Elseifi. (2014). Optimization of Tack Coat for Hot-Mix Asphalt Placement. Transportation Research E-Circular, Issue E-C186, 35-49.

3. Mohammad, L., M.A. Elseifi, and W. King. (2015). Research Pays Off – Optimization of Tack Coat Applications in Asphalt Pavements – Louisiana Develops Evaluation Tools and Pilot-Tests Guidance. TR News, Transportation Research Board of the National Academies, January-February 2015, Number 296.

4. Elseifi, M.A. (2025). AI in Action: Leading in Louisiana Industries - Shaping the Future of Education & Policy. Panelist, Louisiana State University, LSU E. J. Ourso College of Business.

Conference Presentations

1. Al-Qadi, I.L., and Elseifi, M.A. (2001). "Is it reinforcement, separation, or strain energy absorption? Is it really confusing?" Presentation at the Transportation Research Board 80th Annual Meeting 2001. Subcommittee on Geosynthetics in Pavement Systems (A2-K07).
2. Elseifi, M.A., and Lahouar, S. (2002). "Analytical modeling and field performance testing of geocomposite membrane in flexible pavement systems," Presentation at the Transportation Research Board 81st Annual Meeting 2002. Subcommittee on Geosynthetics in Pavement Systems (A2-K07).
3. Al-Qadi, I.L., Elfino, M., Elseifi, M.A., and Clark, T.M. (2003). "Evaluation of geocomposite subsurface drainage systems in Virginia," Presentation at the Transportation Research Board 82nd Annual Meeting 2003. Committee on Subsurface Drainage (A2-K06).
4. Elseifi, M.A. (2009). "Evaluation of the Ductility Specification for Straight Asphalt Binder in Louisiana." Louisiana Transportation Conference 2009, LADOTD, Baton Rouge, LA.
5. Elseifi, M.A. (2009). "Cost Effective Prevention of Reflective Cracking of Composite Pavement." Louisiana Transportation Conference 2009, LADOTD, Baton Rouge, LA.
6. Elseifi, M.A., R. Bandaru, and Z. Zhang. (2011). Field Evaluation and Cost Effectiveness of Chip Seal as a Crack Relief Interlayer in Composite Pavements. Presentation Made at the Transportation Research Board Annual Meeting, Washington, D.C. Subcommittee on Interlayer Systems to Control Reflective Cracking (AFD70(1)).
7. Elseifi, M.A. (2012). Cost-Effective Prevention of Reflective Cracking in Louisiana. Presentation made at the Transportation Research Board Annual Meeting, Washington, D.C. Subcommittee on Interlayer Systems to Control Reflective Cracking (AFD70(1)).
8. Elseifi, M.A., S. Salari, L.N. Mohammad, M. Hassan, and W. Daly. (2012). A New Approach to Recycle Asphalt Shingles in Hot Mix Asphalt. Presentation Made at the Annual Meeting of the Construction Materials Recycling Association, C&D World Exhibition and Conference, Nashville, TN.
9. Elseifi, M.A. (2013). Evaluation of the Rolling Wheel Deflectometer in Louisiana as a Structural Assessment Tool. Presentation made at the Transportation Research Board Annual Meeting, Washington, D.C. Committee on Strength and Deformation Characteristics of Pavement Sections (AFD80).
10. Elseifi, M.A. (2013). "Pavement Structural Evaluation Using Rolling Wheel Deflectometer Data." 2013 Louisiana Transportation Conference, LADOTD, Baton Rouge, LA.
11. Gaspard, K., and M.A. Elseifi. (2013). "Integrating Rolling Wheel Deflectometer Deflection Measurements into Pavement Management Systems Using Multivariate Statistical Methods and Fuzzy Logic." 2013 Louisiana Transportation Conference, LADOTD, Baton Rouge, LA.
12. Elseifi, M.A., and N. Dhakal. (2015). "Synthesis on Mitigation Strategies for Reflective Cracking in Pavements." Presentation made at the Transportation Research Board Annual Meeting, Washington, D.C. Committee on Pavement Rehabilitation (AFD70).

13. Elseifi, M.A., O. Elbagalati, K. Gaspard, and Z. Zhang. (2016). "Traffic-Speed Pavement Structural Evaluation as a Critical Component of Pavement Management System." 2016 Louisiana Transportation Conference, LADOTD, Baton Rouge, LA.
14. Elseifi, M.A. (2017). Continuous Pavement Deflection Testing and Its Implementation in Pavement Management. ASCE T&DI, University of New Orleans, New Orleans, LA.
15. Elseifi, M.A., M.M. Mousa*, and K. Gaspard. (2020). Pavement System Structural Analysis for Inundated Roads: New and Past Approaches. TRB Workshop 1070: Structural Evaluation of Pavements as They Drain.
16. Dhakal, N., and M.A. Elseifi. (2020). Effects of Discontinuities on Temperature Differentials in Asphalt Concrete Overlay and Reflective Cracking Potential. 2020 Tran-SET Annual Conference, Virtual Conference.
17. Mousa, M., and M.A. Elseifi. (2020). Optimal Application Timing and Cost Effectiveness of Crack Sealing in Asphalt Concrete Overlays in Louisiana. 2020 Tran-SET Annual Conference, Virtual Conference.
18. Mousa, M., and M.A. Elseifi. (2020). Prediction of Field Performance of Asphalt Concrete Overlays in Louisiana Using a Tree-Based Algorithm. 2020 Tran-SET Annual Conference, Virtual Conference.
19. Dhakal, N., and M.A. Elseifi. (2020). Evaluation of the Effects of Pavement Types on Fuel Consumption Excess Using Finite Element Modeling. 2020 Tran-SET Annual Conference, Virtual Conference.
20. Sarkar, M.T.A., M.N.S. Oyan, M.A. Elseifi, and Z. Hossain. (2022). A Laboratory Evaluation on Moisture Susceptibility of Dense-Graded Asphalt Mixtures. 2022 Tran-SET Annual Conference, Austin, TX.
21. Paudel, R. and M.A. Elseifi. (2022). Prediction of Pavement Smoothness and aggregate segregation using CNN and image processing. 2022 Tran-SET Annual Conference, Austin, TX.
22. Oyan, M.N.S., Z. Hossain, and M.A. Elseifi. (2022). Evaluation of Moisture Susceptibility and Chemistry of Recovered Asphalt Binders. 2022 Tran-SET Annual Conference, Austin, TX.
23. Lynam, J., Wasiuddin, N., Islam, M. R., Tarannum, N., Elseifi, M. A., Pirbasti, M. H., Ali, S. A., Zaman, M., Hobson, K. R. (2024). Replacing Fossil Fuel-Based Asphalt Binder with Sustainable Lignin Binder from Wastes. Poster presented at 2024 Oklahoma Transportation Summer Symposium. July 30, held at OSU Hamm Institute for American Energy, OK.
24. Urbina Barros, L. G., Lynam, J., Wasiuddin, N., Islam, M. R., Tarannum, N., Elseifi, M. A., Pirbasti, M. H., Ali, S. A., Zaman, M., Hobson, K. R. (2024). Evaluating the use of Lignin-modified Binder for Sustainable Asphalt Pavements. Poster presented at 2024 Oklahoma Transportation Research Day held on October 15, 2024, at the Grand Ballroom in the Nigh University Center at the University of Central Oklahoma, OK.
25. Y.A. Chen, Elseifi, M.A., T. Gentimis, and M. Jasmin. (2024). Integration and Deployment of Novel AI Tools for Rapid Assessment of Student Successes. Presentation made at the AI & Data Analytics Faculty Fellows Symposium, September 17th, Baton Rouge, LA.
26. Y.A. Chen, Elseifi, M.A., T. Gentimis, and M. Jasmin. (2025). Integration and Deployment of Novel AI Tools for Rapid Assessment of Student Successes. LSU Student Success Summit, LSU student Union, Royal Cotillion Ballroom.

Webinars

1. Elseifi, M.A. (2015). "Traffic-Speed Pavement Structural Evaluation as a Critical Component of Pavement Management System." Pavinars: Webinars for the Pavement Community, 50 attendees.
2. Elseifi, M.A., I.L. Al-Qadi, and J. Green. (2015). "Mechanisms and Mitigation Strategies for Reflective Cracking in Rehabilitated Pavements." The National Academies of Sciences, Transportation Research Board, 559 attendees.
3. Elseifi, M.A., and I.L. Al-Qadi. (2015). "Cost-effective Treatment Methods to Control Reflective Cracking in Pavement." American Society of Civil Engineers, 125 attendees.
4. Elseifi, M.A. (2017). "Continuous Pavement Deflection Testing and Its Implementation in Pavement Management." American Society of Civil Engineers, 25 attendees.
5. Elseifi, M.A. (2022). "Optimizing the Durability and Functionality of OGFC Asphalt Mixtures." Invited Speaker, Kent Seminar Series, Illinois Center of Transportation, University of Illinois at Urbana Champaign, Available at https://www.youtube.com/watch?v=aoAHlML4y8s.
6. Elseifi, M.A., and S.M. Tanvir. (2025). "Performance Evaluation of OGFC Mixes with Waste Plastic, Reclaimed Asphalt Pavement, and Steel Slag." Southern Plains Transportation Center (SPTC) Webinar Series.

Panel Participation

1. Elseifi, M.A. "AI in Public Policy and Education: Shaping the Future." AI in Action: Leading Innovation in Louisiana Industries, Panelist, February 2025, Baton Rouge, Louisiana, Hosted by the LSU E. J. Ourso College of Business.

REVIEW ACTIVITIES

NSF Panel - Major Research Instrumentation (MRI) - 2023 and 2024
Automation in Construction (2020 to present)
Construction Building Materials (2015 to present)
The International Journal of Pavement Engineering (2004 to present)
The International Journal of Pavement Research and Technology (2011 to present)
ASCE Journal of Materials in Civil Engineering (2006 to present)
ASCE Journal of Transportation Engineering (2004 to present)
ASCE Journal of Engineering Mechanics (2007 to present)
ASCE Journal of Nanomechanics and Micromechanics
The Canadian Journal of Civil Engineering (2009 to present)
Polymer Composites (2012 to present)
Annual Meeting of the Transportation Research Board (2002 to present)
Annual Meeting of the Association of Asphalt Paving Technologists (2010 to present)
ASCE Journal of Infrastructure Systems
5th RILEM International Conference on Pavement Cracking (France, 2004)

6th RILEM International Conference on Pavement Cracking (Chicago, 2008)
2nd International Conference on Accelerated Pavement Testing (Minneapolis, 2004)
ASCE International Conference on Transportation and Development (Houston, 2016)

UNDERGRADUATE AND GRADUATE STUDENTS ADVISING

MAIN ADVISOR FOR 6 PHD AND 17 MASTER STUDENTS

PhD Students

1. Hao Ying – PhD Dissertation Title: Finite Element Modeling of Hot-Mix Asphalt Performance in the Laboratory – May 2013.
2. Omar Elbagalati – PhD Dissertation Title: A Framework for the Analysis and Implementation of Rolling Wheel Deflectometer Deflection Data at the Network Level – May 2017.
3. Momen Mousa – PhD Dissertation Title: Field Performance and Cost-Effectiveness of Crack Sealing in Flexible and Composite Pavements – August 2019 **(2nd Place in the LSU CEE Graduate Student Research Conference)**.
4. Nirmal Dhakal – PhD Dissertation Title: Identification of Top-down, Bottom-up, and Cement Treated Reflective Cracks using Convolutional Neural Network and Artificial Neural Network – August 2020 **(Honorable Mention in the LSU CEE Graduate Student Research Conference)**.
5. Hossam Abohamer – PhD Dissertation Title: A New Generation of Porous Asphalt Pavement – May 2022 (Featured in Pavement Preservation Journal and 1st Place in the LSU CEE Graduate Student Research Conference).
6. Tanvir Ahmed - PhD Dissertation Title: A New Generation of Multi-Functional Asphalt Emulsion with Hydrophobic and Luminescent Properties – May 2025.
7. Tanvir Abedin – PhD Dissertation Title: High-Polymer Asphalt Binder and Asphalt Mixture for Enhanced Durability and Cost-Effectiveness in Urban Transportation Infrastructure – In Progress.
8. Mahmudul Jamil. PhD Dissertation Title: A New Generation of Environmentally-Friendly Asphalt Emulsion: Advancing Sustainable Infrastructure Solution – In Progress

Master Students

1. Wanggan Yang – Project Title: Viscoelastic modeling of straight asphalt binder at low temperature – May 2010.
2. Rakesh Bandaru – Thesis Title: Cost Effective Prevention of Reflective Cracking in Composite Pavements – Dec 2010.
3. Hao Ying – Thesis Title: Using X-Ray Computed Tomography to Quantify Damage of Hot-Mix Asphalt in the Dynamic Complex Modulus and Flow Number Tests – May 2011.

4. Ahmed Abdel-Khalek – Thesis Title: Pavement Structural Evaluation Using the Rolling Wheel Deflectometer – Dec 2011.
5. Saman Salari – Thesis Title: Effects of Recycled Asphalt Shingle on the Rheological and Molecular Composition Properties of Asphalt Cement – Dec 2012.
6. Karthik Dasari – Thesis Title: Deflection-Based Condition Assessment for Rolling Wheel Deflectometer at Network Level – May 2013.
7. Alejandro Alvergue – Thesis Title: Laboratory Evaluation of Asphalt Mixtures and Binders with Reclaimed Asphalt Shingle Prepared Using the Wet Process – June 2014.
8. Nirmal Dhakal – Thesis: Use of Infrared Thermography to Control the Quality of Joints Construction and to Detect Reflective Cracking in Asphalt Pavements – June 2016.
9. Yashwanth Pamulapati – Thesis: Use of Steel Fibers for Induction Heating and Self-Healing in Asphalt – Fall 2016.
10. Ramendra Das (Co-Chair) – Thesis: Effects of Tack Coat Application on Interface Bond Strength and Short-Term Pavement Performance – Fall 2017.
11. Mohammad Bashar – Thesis: Performance and Cost-Effectiveness of Chip Seal in Louisiana – Fall 2018 **(1st Place in the Tran-SET Graduate Student Research Conference)**.
12. Zia Zihan – Thesis: Evaluation of Traffic Speed Deflectometer for Pavement Structural Evaluation in Louisiana – August 2019 **(1st Place in the LSU CEE Graduate Student Research Conference)**.
13. Patrick Icenogle – Project Title: Development of an Artificial Neural Network Software Application for Conversion of Traffic Speed Deflectometer Data – December 2019.
14. Tanvir Ahmed – Thesis: Evaluation of the Rheological Behaviors and Molecular Composition Properties of Crumb-Rubber Modified Emulsion for Chip Seal – December 2019.
15. Nafiur Rahman – Thesis: Laboratory and Short-Term Field Performance of Crumb Rubber Modified Asphalt Emulsion in Chip Seal Applications – August 2020.
16. Md A Chowdhury – Thesis: Economic, Environmental, and Social Characteristics of E-Scooters on LSU Campus – December 2024.
17. S M Tanvir – Thesis: Next Generation Permeable Pavement for Enhanced Durability and Functionality – December 2024.
18. Mohammad Hadizadeh Pirbasti – Thesis: Effect of Mineral Fillers on the Moisture Resistance and Performance of HMA – May 2025.
19. Sk R. Akbar. Thesis: Development of Data Driven Digital Twin for Enhancing Pavement Performance Prediction in South-Central United States – In Progress

PhD and Master Committee Membership

2025 Mohamed Mohamed – Main advisor: Hany Hassan
2025 Xu Wang – Main advisor: Shengli Chen
2023 Armaghan Monshizadegan – Main advisor: Hany Hassan

2023 Corey Mayeux – Main advisor: Brian Wolshon
2023 Bernard Boakye – Main advisor: Hany Hassan
2023 Mehdi Zadehmohamad – Main advisor: Murad Abu-Farsakh
2023 Hisham M Abdu Kunnah – Main advisor: Hany Hassan
2021 Kwadwo A. Boateng – Main advisor: Louay N. Mohammad
2021 Md. Golam Sobhani – Main advisor: Zhong Wu
2021 Md Nafis Imtiyaz – Main advisor: Chester Wilmot
2020 Hamed Babaizadeh – Main advisor: Ayman Okeil
2020 Sanchit Sachdeva – Main advisor: Louay N. Mohammad
2020 Peyman Barghabany – Main advisor: Louay N. Mohammad
2020 Mohsen Amirmojahedi – Main advisor: Murad Abu-Farsakh
2019 Mishuk Majumder – Main advisor: Chester Wilmot
2019 Travis J Honore – Main advisor: Ayman Okeil
2015 Samuel B. Cooper, Jr. – Main advisor: Louay N. Mohammad
2015 Samuel B. Cooper, III – Main advisor: Louay N. Mohammad
2015 JungYeon Jang – Main advisor: Jongwon Jung
2015 Yogendra Subedi – Main advisor: Zhong Wu
2014 Harshavardhan Challa – Main advisor: Louay N. Mohammad
2014 Raju Thapa – Main advisor: Sherif Ishak

Undergraduate Students Involved in Research

2021 Nicholas Lynch
2021 Youssef Mousa
2011 Steven Robins, Jr.
2011 Melissa Vaughn
2007 Terry Naidoo
2007 Seth Bradley

Professional Leadership and Service Activities

2021 11th International Conference on the Bearing Capacity of Roads, Railways, and Airfields, Scientific Committee Member, Trondheim, Norway
2020 LSU Council on Research (CoR), Member
2018 2018 International Society for Asphalt Pavements, Scientific Committee, Member, Fortaleza, Brazil
2017 Pavement LCA Symposium, Scientific Committee, Member
2017 International Conference on Highway Pavements and Airfield Technology, Member, Scientific Committee, Philadelphia
2014 3rd Middle East Society of Asphalt Technologists Conference, Dubai, International Technical Committee, Member
2014 East Baton Rouge (EBR) Parish Engineer and Surveyor Selection Board, Member
2014 College of Engineering Scholarship Committee – Lead Reviewer, LSU

2014 Construction Research Congress (CRC), ASCE, Program Committee Member
2013 LSU Faculty Senate – Benefits Advisory Committee, Member
2013 Graduate Student Research Conference – Department of Civil and Environmental Engineering, Organizer
2013 TRB Session 619: Best Papers from 4th International Conference on Accelerated Pavement Testing, Presiding Officer
2013 TRB Session 554: Strength and Deformation Characteristics of Pavement Sections, Presiding Officer
2013 2013 ASCE Airfield and Highway Pavement Conference, Member, Scientific Committee,
2012 Member, Educational Curriculum Committee for MS&E, LSU
2012 TRB Session 617: Analysis of Pavement Section Response, Presiding Officer
2012 TRB Session 514: Accelerated Pavement Testing, Part 2, Presiding Officer
2010 CEE Graduate Program Committee, LSU, Department of Civil and Environmental Engineering, Member
2007 Scientific Committee, 6th RILEM International Conference on Cracking in Pavements, Member
2005 Illinois Asphalt Pavement Association (IAPA) Student Advisor