Ronald S. Harichandran, Ph.D., P.E., F.ASCE

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- Led development and implementation of college-wide technical communications program spanning seven BS programs through all four years; and development of four integrated e-learning modules to support instruction in technical communication.
- Led development of entrepreneurial minded learning initiatives in the college, including 18 e-learning modules and integration into engineering courses, to establish a brand. Over 85 engineering faculty at 54 universities around the country have integrated these modules into their courses.
- Established a university-wide Entrepreneurship and Innovation program and a shared Department of Entrepreneurship and Innovation in partnership with the College of Business.
- Facilitated study abroad program for engineering students at the university campus in Prato, Italy.
- Served on leadership team to launch MS in Data Science program in San Francisco, California with approvals from NEASC, the CT Office of Higher Education and the California Bureau for Private Postsecondary Education.
- Promoted launch of new PhD in Engineering and Applied Science, MS in Biomedical Engineering, MS in Chemical Engineering, a fully online MS in Environmental Engineering, MS in Civil Engineering, MS in Construction Management, MS in Chemistry, MS in Data Science, and interdisciplinary MS in Information Science programs.
- Promoted establishment of accelerated BS+MS programs to improve graduate program enrollments.
- Established joint academic programs with two Chinese universities and one Indian university.

Accreditation and Assessment

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x Hired 19 faculty and 9 staff members, negotiat ed stan 7n BT /GS0 gs /TT0 8.04 Tf 54* n BT /T Td ( )Tj ET

Publications

Reviewed Archival Journals and Special Issues

Education

1. Harichandran, R. S., Erdil, N. O., and Li, C. (Under preparation). "Learning indices to assess student achievement of program outcomes."
2. Breitinger, F., Tully-Doyle, R., Przyborski, K., Beck, L., and Harichandran, R. S. (2021). "Students' experience in a Cyber World course." Education and Information Technologies, 26(1), 1069–1087.
3. Harichandran, R. S., Erdil, N. O., Carnasciali, M.-I., Nocito-Gobel, J., and Li, Q. (2018). "Developing an entrepreneurial mindset in engineering students using integrated e-learning." Advances in Engineering Education, 7(1).

Structural Engineering

4. Harichandran, R. S., Baiyasi, M. I., and Nossoni, G. (2017). "Flexural durability of concrete columns wrapped with FRP and subject to corrosion." Journal of Materials in Civil Engineering, ASCE, 29(1).
5. Nossoni, G., Harichandran, R. S., and Baiyasi, M. I. (2015). "Rate of reinforcement corrosion and stress concentration in concrete columns repaired with bonded and unbonded FRP wraps." Journal of Composites for Construction, ASCE, 19(5).
6. Nossoni, G., Harichandran, R. S. (2014). "Electrochemical-mechanistic model for concrete cover cracking due to corrosion." Journal of Materials in Civil Engineering, ASCE, 26(6).
   Nossoni, G., Harichandran, R. S. (2015). Closure to: "Electrochemical-mechanistic model for concrete cover cracking due to corrosion." Journal of Materials in Civil Engineering, ASCE, 27(6).
7. Nossoni, G., Harichandran, R. S. (2012). "Current efficiency of accelerated concrete corrosion." Corrosion, NACE,

PA, 68 ²82.

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64. Nossoni, G., and Harichandran, R. S. (2020). ´ 5 H O D W L R QRîÊŽ”£04SP0x À DŽÅ P: W€L P= PH

79. Harichandran, R. S., Adams, D. J., Nocito-Gobel, J., Brisart, E., Erdil, N. O., Collura, M. A., Daniels, S. B., and Harding, W. D. (2014). "A comprehensive judgment framework for developing technical competency," Proceedings, Frontiers in Education Conf., Madrid, Spain, 182-189.

80. Harichandran, R. S., Adams, D. J., Nocito-Gobel, J., Collura, M. A., Thompson, A. E., Harding, W. D., and Erdil, N. O. (2014). "An approach to develop technical competency in engineering graduates," Proceedings, ASEE Annual Conf., Indianapolis, IN, Paper 8570, 19 pp.

81. Harichandran, R. S. (2007). "Faculty hiring trends in medium-sized research intensive CEE departments and balancing the research and service," Proceedings, ASEE Annual Conf., Honolulu, Hawaii, Paper 1456, 7 pp.

82. Lynch, D., Kelly, W. Jha, M. and Harichandran, R. S. (2007). "Implementing sustainability in civil engineering curriculum," Proceedings, ASEE Annual Conf., Honolulu, Hawaii, Paper 2422, 19 pp.

83. Harichandran, R. S. (2006). "Current trends in civil engineering," Journal of Engineering Education, 95(2), 93-96.

92. 1 R V V R Q L * D Q G + D U L F K D Q G U D Q 5 6 Chloride-induced corrosion of reinforcing steel in concrete: electrochemical modeling of initial and limiting corrosion rates µ Proceedings, 89th Annual Meeting of the Transportation Research Board , Washington, DC, 16 pp.

93. = K D Q J * + D U L F K D Q G U D Q 5 6 D Q G 5 D P X K D O O L 3 ´ 1 ' (F

120. Haider, S. W., and Harichandran, R. S. (2008). ´(VWLPDWLQJ ELPRGDO GLVWULEXWLfic OHYHOV IURP D[OH ORDG VSHFWUD µ

132. Santa-Cruz, S., Heredia-Zavoni, E., and Harichandran, R. S. (2000). "Frequency behavior of coupled shear-flexure systems," Proceedings, 12th World Conf. on Earthquake Engineering, Auckland, New Zealand, Paper No. 0076, 8 pp.

133. Harichandran, R. S., and Chen, M.-T. (1996). "Stochastic modeling of earthquake ground motion in multiple-support structural systems," Proceedings, 7th ASCE Specialty Conf. on Probabilistic Mechanics and Structural Reliability, Worcester, MA, 962–965.

134. Harichandran, R. S., and Chen, M.-T. (1988). "Reliability analysis of earthquake excited frame-shear wall structures," Proceedings, 9th World Conf. on Earthquake Engineering, Acapulco, Mexico, Paper No. 1287, 8pp.

135. Chen, M.-T., and Harichandran, R. S. (1996). "Simplified response spectrum analysis for yielding earthquake excited frame-shear wall structures," Proceedings, 11th World Conf. on Earthquake Engineering, Acapulco, Mexico, Paper No. 527, 8pp.

136. Harichandran, R. S., and Dang, H. (1991). "Laminated composite plates with non-linear shear," Proceedings, 10th ASCE Engineering Mechanics Conf., Boulder, CO, 62–65.

137. Chen, M.-T., and Harichandran, R. S. (1991). "Effect of spatially varying ground motion on response of structures," Proceedings, 10th ASCE Engineering Mechanics Conf., Boulder, CO, 78–81.

138. Harichandran, R. S., and Dang, H. (1990). "Linear random vibration of laminated composite plates," Proceedings, 9th Annual ASM/ESD Advanced Composites Conf., Dearborn, MI, 277–287.

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159. Harichandran, R. S., Ko, R. - 6 % X F K 1 D Q G % D O D G L * < ´0 L F K L J D system user s man X D O Michigan Dept. of Transp. , Lansing, MI.

160. Buch, N., Harichandran, R. S., Baladi, G. Y., Kim, H. -B., and Park, D. - < ´& D O L E U D W L R MICHPAVE s rut and fatigue distress models and development of an overlay design procedure in 0 , & + % $ & . µ) Lport, D Michigan Dept. of Transp. , Lansing, MI.

161. + D U L F K D Q G U D Q 5 6 ´0 H F K D Q L V W L F D Q D O \ V L V D Q G G H V L J for presen tation sponsored by the Korea Highway Corporation, Seoul, Korea.

162. Harichandran, R. S., Ramon, C. M., D Q G % D O D G L * < ´0 V & + P Q D X V µ H U H ment of Civil and Environmental Engineering, Michigan State University, East Lansing, MI.

163. Harichandran, R. S., Mahmood, T. 1988 + D U L F K D Q G U D Q 5 6 0 X N K W D U + D Q G 0 D K P R R fatigue G, 0 X

Media Coverage

´ 8 1 + & \ E H U V H F X U L W \ (Q J L Q H H U L Q J V F K R R O V R I I H U P R Q H \ NBC Connecticut News, June 23, 2023.

´ (Q J L Q H H U L Q J V F K R R O V R I I H U P R Q H \ Voice of America Learning English, June 17, 2023.

´ + R Z K D V W H F K Q R O R J \ V K D S H G X Q L Y H U V L W \ H G X F DåDg5P› , xë –ó31 ÌÙH U V L

Kern Family Foundation
January 2018 to August 2020

´Integrated e -learning modules: Dissemination & e nhancement µ with co -PIs: N. Erdil ,M-I. Carnasciali, J. Nocito -Gobel, and C. Li. $95,500.

Connecticut Innovations
January 2018 to December 2019

´' H Y H O R S L Q J H Q W U H S U H Q H X U L D O W D O H-PQ.W- I I. Carnasciali, N. Erdil, J. Nocito -Gobel and C. Li. $47,750 .

Davis Educational Foundation
January 2018 to December 2019

´' H Y H O R S P H Q W R I W K H C[&RPPHUFLDOL]DWLRQ Course at the Universi- ty of New Haven µ Z L W K) % U H L W L QJ-PIs:HK. Przybors[iQ.G Baggili, G. McGee, C. Smith, E. Guy -Serge. $103,125 .

Lockheed Mar tin Aerospace Co.
September 2017 to August 2020

´6 X S S R U W I R U 8 Q L Y H U V L W \ 0I.CarnasciaIi and FR. µ Z Reaback (Development Officer). $76,000 .

Kern Family Foundation
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Michigan Dept. of Transp.
2005 to 2010
´ % U L G J H V D Q G V W U X F W X U H V U L W W H U D W F K R H Q H µ Q

Michigan Dept. of Transp.
January 2005 to January 2007
´ , G H Q W L I L F D W L R Q R I F D X V H V D Q G G H Y H O R S V W U X F W X U D O G L V W U H V V L Q R E U L G J H (D E X W P H Buch and G. Abu -Lebdeh . $234,777.

Michigan Dept. of Transp.
October 2004 to September 2007
´ , P S U R Y H G V K D O O R Z D E L O L W \ D Q D O \ V L V I R U F R Q F U H W H structures, µ Z L W K Burgue ño (co -PI). $160,095.

Federal Highway Administration
September 2003 to August 2004
´ 6 X S S R U W I R U W K H 1 D W L R Q D O & H Q W H U I R U Preservatio Q µ Z L W K / * D O H (P K) . $75,000.

Federal Highway Administration
September 2003 to August 2004
´ 0 D U N H W L Q J S O D Q I R U W K H 1 D W L R Q D O & H Q W tio Q µ Z L W K / * D O H (P K) . $50,000.

Foundation for Pavement Preservation
August 2003 to August 2012
´ 6 X S S R U W I R U W K H 1 D W L R Q D O & H Q W H U I R U $415,000.

Michigan Dept. of Transp.
February 2001 to August 2003
´ 6 H Q V R U V W R P R Q L W R U E R Q G L Q F R Q F U H W H) 5 3 µ

Michigan Dept. of Transp.
May 2000 to May 2002
´ ' H Y H O R S P H Q W R I D F R P S X W H U S U R J U D P I R U tion of flexible - S D Y H P H Q W O D \ H U P K . C h a t O (P I Q 0 6 a 9 8 W) K 3 .

Mentoring

Doctoral Dissertations

Zhang, G. (2010). ´ ' H O D P L Q D W L R Q G H W H F W L R Q R I G H F N V X V L Q J D F R X V W L F Co-adviser: P. Ramuhalli. µ

Iqbal, S. (2010). ´Capacity reduction and fire load factors for LRFD of steel members exposed to fire µ

Gong, A. (2005).

Zhang, Y. (1988). ´'\QDPLF SURSHUWLHV RI FRPELQ DQG 0'2) VHFRQGDU\ V\VWHPV µ

Wang, W. (1988). ´5HVSRQVH RI VLPSOH EHDP WR \ seismic ex F L W D W L R Q µ

0DWKHQ\ - ´,QFRUSRUDWLQJ VXVWDL neering curriculum at Michigan State Univ HUVLW\ µ

Cho, Y. - - - G3HOWD DQDO\VLV RI EXLOGLQJ

Visiting Scholar Projects

%DKQ % < ´(QKDQFHPHQW RI ERQG D PRUWDU IRU FRQFUHWH EHDPV VWUHQJWK fessor from Dae jeon University, South Korea.

7DULQHMDG 5 ´6HLVPLF UHVSRQVH R EHXQGDU\ DQG ILQLWH HOHPHQWV µ 9LVL dares University, Iran.

6R\OX N . ´6SDWLDOO\ YDU\LQJ HDUW iting professor from Gazi U niversity, Turkey.

Undergraduate Student Projects

6HUHVHUR] 7 ´(DUWKTXDNH HQJLQHH Summer Research Opportunity Program.

Institutional Service

Faculty Search Committee ² One pavements position (1995)
Advisory Committee (1993 -95)
Chairperson Re -Appoi ntment Review Committee (Chair 1995)
Student Grie vance Hearing Board (Chair 1995)
Graduate Studies Committee (1991 -95, Chair 1994-95)

College of Engineering
Strategic Planning Committee (2008)
Dean of Engineering Search Committee (Chairperson 1998 -99)
Search Committee for the Director of the Division of Engineering Computing Services (1996)
Computer Services Task Force to review the Division of Engineering Computing Services (1995)
Ad Hoc CQI/Curriculum Committee (1995)
Case Center Advisory Committee (1988 -1995, Chairperson 1992 -93)
Ad Hoc Committee to review CPS 131 (1994)
Mathematics/Engineering Calculus Curriculum Committee (1991)
Awards and Financial Aid Committee (1985 -91)

University
High-Performance Computing Advisory Committee (1993 -95)
Mathematics/Engineering Liaison Committe e (1991-94)
Research Computing Committee (1991 -93)
University Hearing Panel (1992)

Faculty Adviser
Departmental Honors College Adviser (1992 -95)
Federal Highway Admin. Research Fellow Binshan Ye (1992 -93)