DR. ABHIK ROY

PUBLICATIONS

2024 Dey, K., Rahman, M. T., **Roy, A.**, Pyrialakou, V. D., Martinelli, D., Fraustino, J. D., Deskins, J., Rambo-Hernandez, K. E., & Plein, L. C. (2024). Experiences and perceptions of engineering students towards a cross-disciplinary course using sentiment analysis. *Journal of Civil Engineering Education, 150*(3). https://doi.org/10.1061/jceecd.eieng-1976

2023 Kale, U., Kooken, A., Yuan, J., & **Roy, A.** (2023). Teaching science via computational thinking? Enabling future science teachers' access to computational thinking. *Contemporary Issues in Technology and Teacher Education, 23*(3). https://citejournal.org/volume-23/issue-3-23/science/teaching-science-via-computational-thinking-enabling-future-science-teachers-access-to-computational-thinking

Curtis, R., **Roy, A.**, Lewis, N., Dooty, E. N., & Mikalik, T. (2023). Program evaluation standards for utility facilitate stakeholder internalization of evaluative thinking in the West Virginia Clinical Translational Science Institute. *Journal of MultiDisciplinary Evaluation, 19*(43), 49–65. https://doi.org/10.56645/jmde.v19i43.831

2022 Kale, U., Yuan, J., & **Roy, A.** (2022). Thinking processes in Code.org: A relational analysis approach to computational thinking. *Computer Science Education, 33*(4), 545–566. https://doi.org/10.1080/08993408.2022.2145549

2021 **Roy, A.**, & Rambo-Hernandez, K. E. (2021). There's so much to do and not enough time to do it! A case for sentiment analysis to derive meaning from open text using student reflections of engineering activities. *American Journal of Evaluation, 42*(4), 559–576. https://doi.org/10.1177/1098214020962576

2020 Kale, U., **Roy, A.**, & Yuan, J. (2020). To design or to integrate? Instructional design versus technology integration in developing learning interventions. *Educational Technology Research and Development, 68*(2473–2504). https://doi.org/10.1007/s11423-020-09771-8

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EXPERTISE

Data visualization

Markup using $\LaTeX$

Program evaluations integrating both traditional and machine learning methods

Quantitative, qualitative, and mixed method studies

R programming

Social network analysis

Survey design, administration, and research

Statistical modeling and analysis

Text analytics

Web application development and static/dynamic reporting using

WWW

2018 Rambo-Hernandez, K. E., **Roy, A.**, Morris, M. L., Hensel, R. A. M., Schwartz, J. C., Atadero, R. A., & Paguyo, C. (2018, April). Using interactive theater to promote inclusive behaviors in teams for first-year engineering students: A sustainable approach. Paper presented at the 2018 CoNECD - The Collaborative Network for Engineering and Computing Diversity Conference, Crystal City, Virginia. https://doi.org/10.18260/1-2–29592

Richards-Babb, M., Curtis, R., Ratcliff, B., **Roy, A.**, & Mikalik, T. (2018). General chemistry student attitudes and success with use of online homework: Traditional-responsive versus adaptive-responsive. *Journal of Chemical Education, 95*(5), 691–699. https://doi.org/10.1021/acs.jchemed.7b00829

Miller, T. A., Carver, J. S., & **Roy, A.** (2018). To go virtual or not to go virtual, that is the question: A comparative study of face-to-face versus virtual laboratories in a physical science course. *Journal of College Science Teaching, 48*(2), 59–67. https://www.jstor.org/stable/26616271

2014 Davis, J. D., Smith, D. O., **Roy, A. R.**, & Bilgic, Y. K. (2014). Reasoning-and-proving in algebra: The case of two reform-oriented U.S. textbooks. *International Journal of Educational Research, 64*, 92–106. doi:10.1016/j.ijer.2013.06.012

2012 **Roy, A. R.**, Hobson, K. A., & Coryn, C. L. S. (2012). What's in a Scriven number? *Journal of MultiDisciplinary Evaluation, 8*(19), 41–45. https://doi.org/10.56645/jmde.v8i19.372

📖 BOOK CHAPTERS

2017 **Roy, A. R.** (2017). Social network analysis: Finding meaning in connections. In T. C. Ahern (Ed.), *Social media*. Hauppauge, NY: Nova Science.