

# Outcome-Based Use of Simulation in Agricultural Sciences: A Systematic Literature Review



Anjorin Ezekiel Adeyemi, Shuai Ma, Zhihong Xu, and Rafael Landaverde

Department of Agricultural Leadership, Education and Communications, Texas A&M University

## Author Note

Correspondence regarding this article should be addressed to Zhihong Xu, Department of Agricultural Leadership, Education and Communications, Texas A&M University, College Station, USA. Email: [xu.zhihong@tamu.edu](mailto:xu.zhihong@tamu.edu)

## Abstract

Technology is increasingly being integrated into classrooms worldwide to enhance learning outcomes, and simulation technologies are becoming more popular to create realistic scenarios in controlled academic settings. However, simulation studies in agricultural education have been limited, making it difficult to assess the impact of simulation technologies on student learning. To address this literature gap, a systematic literature review of 17 articles was conducted to examine the use of simulation technology in agricultural education. The analysis revealed that simulation technologies were most used in agricultural science sub-disciplines that involve experimentation and practical application. Most studies focused on undergraduates and utilized quantitative research methods, with virtual and augmented reality being the most commonly employed types of simulation. Positive effects of simulation on learning outcomes were reported in most studies, including improved academic achievement, psychological factors such as anxiety, and tracking students' progress. However, the technology's time-consuming nature and potential for uncomfortable physical conditions like cybersickness were identified as demerits. More rigorous standards were recommended to improve reporting procedures in agricultural education studies with simulation technologies.

**Keywords:** agriculture, educational technology, learning outcome, simulation

In agricultural education, educators continuously seek efficient teaching methods that promote student engagement and enhance their skills in utilizing predictive, computer-based, and data-driven tools for effective consultation and decision-making (Basche et al., 2021). Due to this, classrooms have witnessed a rise in the utilization of diverse technologies (Grzybowski, 2013; Lee et al., 2022; Xu et al., 2021). Among these technologies, simulation stands out as an effective tool that recreates real-life situations in a controlled learning environment. By using simulation, students can better grasp agricultural concepts and significantly improve their critical thinking and decision-making skills (Agnew & Shinn, 1990; Ibendahl, 2017; Kit et al., 2018; Petras, 2020).

Several authors have defined simulation as the reproduction of real-world processes or systems in a controlled environment (Banks, 2000; Bobillier et al., 1976; Galba, 2004; Maria, 1997; Zeigler, 1976), which can offer a transformative tool for experiential learning in agriculture (Kit et al., 2018; Koontz et al., 1995; Lamm et al., 2011). Its immersive virtual environments that mimic farming contexts offer diverse learning opportunities. Simulation also enables students to comprehend complex concepts (Anderson, 1984; Briggeman et al., 2012; Bunch et al., 2014), navigate various scenarios (Blank, 1985), and make informed decisions (Van Dam et al., 1997). By simulating different farming methods, environmental scenarios, and crop management tactics, simulation technology has the potential to transform agricultural education and prepare students for future challenges.

While simulation has been extensively studied and utilized in diverse educational fields (simulation studies in general/other fields), its specific application remains relatively understudied, especially the overall impact on learning outcomes in agricultural education needs to be more studied. To bridge this research gap, our systematic literature review

# The Literature Of Agricultural Engineering Literature Of The Agricultural Sciences

**Megh R. Goyal,Deepak Kumar Verma**

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Literature of Agricultural Research Harald Ostvold, Literature of Agricultural Research J. Richard Blanchard, Harald Ostvold, 2023-11-15 This title is part of UC Press's Voices Revived program which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1958

**Guide to Sources for Agricultural and Biological Research** J. Richard Blanchard, Lois Farrell, 2023-07-28 *Guide to Literature on Agricultural Engineering*

, 1971 **Selective Guide to Literature on Agricultural Engineering**, 1985 *Using the Agricultural, Environmental, and Food Literature* Barbara S. Hutchinson, Antoinette Paris-Greider, 2002-07-17 This reference provides the groundwork tools and terminology required when conducting specialized searches for information and resources pertaining to traditional and emerging fields of agriculture The editors present 16 contributions from librarians and other information workers that offer information on research resources across the academic a

*Introduction to Agricultural Engineering* Harry L. Field, Lawrence O. Roth, 2012-12-06 This book is for use in introductory courses in colleges of agriculture and in other applications requiring a problematic approach to agriculture It is intended as a replacement for an Introduction to Agricultural Engineering by Roth Crow and Mahoney Parts of the previous book have been revised and included but some sections have been removed and new ones have been expanded to include a chapter added Problem solving techniques and suggestions are incorporated throughout the example problems The topics and treatment were selected for three reasons 1 to acquaint students with a wide range of applications of engineering principles to agriculture 2 to present a selection of independent but related topics and 3 to develop and enhance the problem solving ability of the students Each chapter contains educational objectives introductory material example problems where appropriate and sample problems with answers that can be used for self assessment Most chapters are self contained and can be used independently of the others Those that are sequential are organized in a logical order to ensure that the knowledge and skills needed are presented in a previous chapter As principal author I wish to express my gratitude to Dr Lawrence O Roth for his contributions of subject matter and guidance I also wish to thank Professor Earl E Baugher for his expertise as technical editor and my wife Marsha for her help and patience HARRY FIELD v 1 Problem Solving OBJECTIVES 1 Be able to define problem solving

Agriculture Engineering Maqsood Kader, 2017-10 Agriculture Engineering is a technologically sophisticated field that

offers bright career prospects and opportunity in any country around the world and in various sectors Agriculture is the world's largest and most important industry feeding and clothing an ever growing world population However agriculture is growing in many new ways as energy from biofuels become important to our economy and new biotechnologies create additional uses for agricultural waste and byproducts Biofuel use and other on farm sustainable operations along with better technologies bring new hope that engineering agriculture can provide for more people Engineering is the input that permits this industry to produce our most basic needs without requiring the efforts of the whole population Rural areas especially in developing countries are facing with numerous social economical cultural and environmental problems In the most cases there is a growing concern because only very few farmers or inhabitants are able to follow contemporary sustainable and environment friendly methods in farming systems The consequences of this are numerous such as poverty significant migration to urban areas and unplanned suburban settlements This has a significant impact on the national economy demography and environment This book entitled Agriculture Engineering provides a scientific discussion of techniques and approaches leading to a higher degree of efficiency in agricultural production the responsible use of natural resources a cleaner environment greater sustainability value added processing and other subjects of interest to agricultural engineers It also includes economic considerations and policy issues of interest to agricultural engineers and other disciplines It disseminates fundamental and applied knowledge in almost all area of agricultural sciences from agronomy to animal sciences and particularly agricultural engineering

Introduction to Agricultural Engineering Technology Harry L.

Field, John M. Long, 2018-06-27 The third edition of this book exposes the reader to a wide array of engineering principles and their application to agriculture It presents an array of more or less independent topics to facilitate daily assessments or quizzes and aims to enhance the students problem solving ability Each chapter contains objectives worked examples and sample problems are included at the end of each chapter This book was first published in the late 60's by AVI It remains relevant for post secondary classes in Agricultural Engineering Technology and Agricultural Mechanics and secondary agriculture teachers

**Engineering Interventions in Agricultural Processing** Megh R. Goyal, Deepak Kumar

Verma, 2017-11-20 Engineering Interventions in Agricultural Processing presents recent advanced research on biological engineering bioprocessing technologies and their applications in agricultural food processing and their applications in agriculture science and agricultural engineering focusing on biological science biological engineering and bioprocessing technology With contributions from a broad range of leading researchers this book presents several innovations in the areas of processing technologies in agriculture The book is divided into three parts covering agricultural processing interventions in engineering technologies novel practices in agricultural processing agricultural processing health benefits of medicinal plants With contributions from a broad range of leading researchers this book presents several new innovations in the areas of processing technologies in agriculture that will be helpful to researchers scientists students and industry professionals in

agriculture    Report of the Agricultural Experiment Station of the College of Agriculture of the University of Minnesota ... to December 31, 1888 University of Minnesota. Agricultural Experiment Station,1898    Introduction to Agricultural Engineering Technology Harry L. Field,2007    Peterson's Guide to Graduate Programs in the Biological and Agricultural Sciences ,1990    The Practical Engineer's Hand-book Walter S. Hutton,1892    **The Agricultural Gazette and Modern Farming** ,1899    **Agricultural Engineering, Current Literature** ,1931    Willing's Press Guide ,1946 Coverage of publications outside the UK and in non English languages expands steadily until in 1991 it occupies enough of the Guide to require publication in parts 1995 issued in 2 vols 2003 issued in 3 vols    Experiment Station Record United States. Office of Experiment Stations,1892    **Experiment station record** ,1892

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