

Digital Technologies for Food Loss and Waste Prevention and Reduction in Agri-Food Supply Chains: A Systematic Literature Review and Research Agenda

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Abstract—Despite the benefits resulting from the use of Industry 4.0 technologies in the agri-food sector, the adoption of digital technologies for preventing and/or reducing food loss and waste (FLW) across the agri-food supply chain is still under investigation. In fact, enhancing and optimizing agri-food supply chain operations through digital technologies would just represent a partial effort if FLW prevention and reduction are not effectively addressed. Although companies are starting to adopt digital technologies for eliminating FLW from their operations, the implementation process and the achieved results are generally presented at a superficial level and practical guidance is still missing. This systematic literature review contributes to theory by developing a framework analyzing the state-of-the-art of adoption of each Industry 4.0 technology across the agri-food supply chain, and providing a research agenda structured around the main themes of research design, digital technologies, contextual differences, governance, and sustainability. Eventually, the study also informs managers in the agri-food industry about the potential implementation of digital technologies for preventing and reducing FLW in across the agri-food supply chain.

Index Terms—Agri-food supply chain (AFSC), digital technologies, digitalization, food loss and waste (FLW), industry 4.0.

NOMENCLATURE

List of Abbreviations

AFSC	Agri-food supply chain.
AI	Artificial intelligence.
BDA	Big data analytics.
CRM	Customer relationship management.
DT	Digital technologies.
EIS	Enterprise information system.
ERP	Enterprise resource planning.
FLW	Food loss and waste.

FW	Food waste.
GPS	Global positioning system.
ICT	Information and communication technology.
IoT	Internet of Things.
ML	Machine learning.
PLM	Product lifecycle management.
RFID	Radio-frequency identification.
RPA	Robotic process automation.
SLR	Systematic literature review.
WMS	Warehouse management system.

I. INTRODUCTION

As a growing number of people is facing food insecurity and the global food systems have been severely tested by a combination of health crisis, climate-related issues, and conflicts, still too much food is lost or wasted throughout the AFSC. Between 25% and 50% of food produced does not reach the consumers, with the majority of losses occurring from the producers to the retailers point in the supply chain [1]. Wasting food has significant negative consequences on social, economic, and environmental sustainability: wasted food in landfills generates about 8%–10% of global greenhouse gas emissions [2], not to mention blue water footprint, land footprint, and biodiversity reduction [3]. Moreover, it leads to an economic cost of around 143 billion euros per year in the 28 European countries alone [4]. Halving per capita global food waste by 2030 is the objective of target 12.3 of UN sustainable development goal [5]; thus, reducing FLW represents a relevant and timely issue.

Several strategies of reducing FLW have been identified, depending also on the supply chain stages considered [6]. Despondi [1] individuates the adoption of technology as one key aspect for food loss reduction, especially in the upstream part of the supply chain. For instance, Industry 4.0 (I4.0) solutions, such as blockchain or IoT, allow the monitoring of the ambient conditions of food products from the harvest until the selling stage, thus detecting their deterioration stage and improving the operations along the entire AFSC [7], [8], [9]. Even in the downstream supply chain stages (i.e., consumption, food service, and food sharing), digital technologies are frequently adopted to avoid or reduce food waste, such as digital platforms

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Reduction In The Abstract Sciences

Wang Wei



Reduction In The Abstract Sciences:

Reduction in the Abstract Sciences Daniel A. Bonevac,1982 Religion and Reductionism

Idinopulos,Yonan,2018-08-14 This volume on Religion and Reductionism grew out of a conference convened in November 1990 where the participants were asked to respond to the conceptual and methodological problem of reductionism in the academic study of religion The conference focused on the writings of Robert A Segal and his defence of reductionism and criticism of Mircea Eliade s non reductive interpretation of religion At the Miami conference some of the most important and enduring questions were raised 1 What is religion 2 What is religion and or religious meaning 3 How should religion be studied and taught 4 What are the possibilities and limits of social scientific analyses of religious phenomena 5 What is reductionism 6 What is anti reductionism These and other questions on religion and reductionism are widespread and invite serious consideration they help to illuminate the basic issues that are at the core of any study of the world s major religions

The Philosophy of Science Richard Boyd,Philip Gasper,J. D. Trout,1991 The more than forty readings in this anthology cover the most important developments of the past six decades charting the rise and decline of logical positivism and the gradual emergence of a new consensus concerning the major issues and theoretical options in the field As an introduction to the philosophy of science it stands out for its scope its coverage of both historical and contemporary developments and its detailed introductions to each area discussed Science Abstracts ,1900 **Thomas Seebohm on the Foundations of**

the Sciences Thomas Nenon,2020-02-03 This book explores the work of Thomas Seebohm 1934 2014 a leading phenomenologist and hermeneuticist It features papers that offer a critical and constructive dialogue about Seebohm s analyses and their implications for the sciences The net result is an in depth study and a helpful overview of Seebohm s general approach and his specific views on various areas of modern science The contributors focus especially upon his final text *History as a Science and the System of the Sciences* They view this as the culmination and summary of his historical and phenomenological investigations into the foundations nature and limits of modern sciences This includes not just history but the Geisteswissenschaften more generally along with the social and natural sciences as well The essays in this volume reflect that range This volume presents insightful discussions about the nature and legitimacy of the human sciences as sciences and the unique character of the social sciences It will be of interest not just as a matter of historical scholarship but also and above all as an important contribution to phenomenology and to the philosophy of science and the sciences as such It deserves attention by scholars from any philosophical tradition interested in thinking about the foundations of their disciplines and a philosophy of science that includes but is not limited to the natural sciences **The Philosophy of**

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metaphysics physics psychology and mind the social sciences and key figures in the combined studies of science and philosophy Midwest **Science Abstracts** ,1922 *Nuclear Science Abstracts* ,1974 Science Abstracts. Physics and Electrical Engineering ,1906 **Communist Chinese Scientific Abstracts** United States. Joint Publications Research Service,1965 *Ontology* Dale Jacquette,2014-12-18 The philosophical study of what exists and what it means for something to exist is one of the core concerns of metaphysics This introduction to ontology provides readers with a comprehensive account of the central ideas of the subject of being This book is divided into two parts The first part explores questions of pure philosophical ontology what is meant by the concept of being why there exists something rather than nothing and why there is only one logically contingent actual world Dale Jacquette shows how logic provides the only possible answers to these fundamental problems The second part of the book examines issues of applied scientific ontology Jacquette offers a critical survey of some of the most influential traditional ontologies such as the distinction between appearance and reality and the categories of substance and transcendence The ontology of physical entities space time matter and causation is examined as well as the ontology of abstract entities such as sets numbers properties relations and propositions The special problems posed by the subjectivity of mind and of postulating a god are also explored in detail The final chapter examines the ontology of culture language and art Foundations of Software Science and Computational Structures Martin Hofmann,2011-03-18 This book constitutes the refereed proceedings of the 14th International Conference on Foundations of Software Science and computational Structures FOSSACS 2011 held in Saarbrücken Germany March 26 April 3 2011 as part of ETAPS 2011 the European Joint Conferences on Theory and Practice of Software The 30 revised full papers presented together with one full paper length invited talk were carefully reviewed and selected from 100 submissions The papers are organized in topical sections on coalgebra and computability type theory process calculi automata theory semantics binding security and program analysis **Computer Science Handbook** Allen B. Tucker,2004-06-28 When you think about how far and fast computer science has progressed in recent years it's not hard to conclude that a seven year old handbook may fall a little short of the kind of reference today's computer scientists software engineers and IT professionals need With a broadened scope more emphasis on applied computing and more than 70 chap Philosophy of Science Wang Wei,2020-12-29 The book is a translation of the second edition of a much used and research based Chinese textbook As a succinct and issue based introduction to the Western philosophy of science the book brings eight focal issues in the field to the fore and augments each topic by incorporating Chinese perspectives Followed by an overview of the historical framework and logical underpinnings of the philosophy of science the book thoroughly discusses eight issues in the discipline 1 the criteria of cognitive meaning 2 induction and confirmation 3 scientific explanation 4 theories of scientific growth 5 the demarcation between science and pseudoscience 6 scientific realism and empiricism 7 the philosophy of scientific experimentation 8 science and value Not confined to Western mainstream discourse in this field the book also introduces

voices of Chinese philosophers of note and adopts a stance that productively combines logical empiricism and Kuhnianism both of which tend to be covered in less detail by many English language textbooks In the final chapter the author offers a prognosis regarding the future of the discipline based on recent trends This book will be of value to students who study philosophy of science and hope to gain a better understanding of science and technology

Scientific and Technical Aerospace Reports, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

East European Scientific Abstracts, 1970

Encyclopedia of Philosophy and the Social Sciences Byron Kaldis, 2013-03-07 This encyclopedia magnificently edited by Byron Kaldis will become a valuable source both of reference and inspiration for all those who are interested in the interrelation between philosophy and the many facets of the social sciences A must read for every student of the humanities Wulf Gaertner University of Osnabrueck Germany Byron Kaldis Encyclopedia of Philosophy and the Social Sciences is a triumph The entries are consistently good the coverage is amazing and he has managed to involve the whole scholarly community in this field It shows off the field very well and will be a magnificent resource for students and others Stephen Turner USF USA Like all good works of reference this Encyclopedia of Philosophy and the Social Sciences is not to be treated passively it provides clear and sometimes controversial material for constructive confrontation It is a rich resource for critical engagement The Encyclopedia conceived and edited by Byron Kaldis is a work of impressive scope and I am delighted to have it on my bookshelf David Bloor Edinburgh UK This splendid and possibly unique work steers a skilful course between narrower conceptions of philosophy and the social sciences It will be an invaluable resource for students and researchers in either or both fields and to anyone working on the interrelations between them William Outhwaite Newcastle UK A work of vast scope and widely gathered expertise the Encyclopedia of Philosophy and the Social Sciences is a splendid resource for anyone interested in the interface between philosophy and the social sciences Nicholas Rescher Pittsburgh This encyclopedia is the first of its kind in bringing together philosophy and the social sciences It is not only about the philosophy of the social sciences but going beyond that it is also about the relationship between philosophy and the social sciences The subject of this encyclopedia is purposefully multi and inter disciplinary Knowledge boundaries are both delineated and crossed over The goal is to convey a clear sense of how philosophy looks at the social sciences and to mark out a detailed picture of how the two are interrelated interwoven at certain times but also differentiated and contrasted at others The Entries cover topics of central significance but also those that are both controversial and on the cutting edge underlining the unique mark of this Encyclopedia the interrelationship between philosophy and the social sciences especially as it is found in fresh ideas and unprecedented hybrid disciplinary areas The Encyclopedia serves a further dual purpose it contributes to the renewal of the philosophy of the social sciences and helps to promote novel modes of thinking about some of its classic problems The Encyclopedia of Philosophy and the Social Sciences

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