

Lot - 09

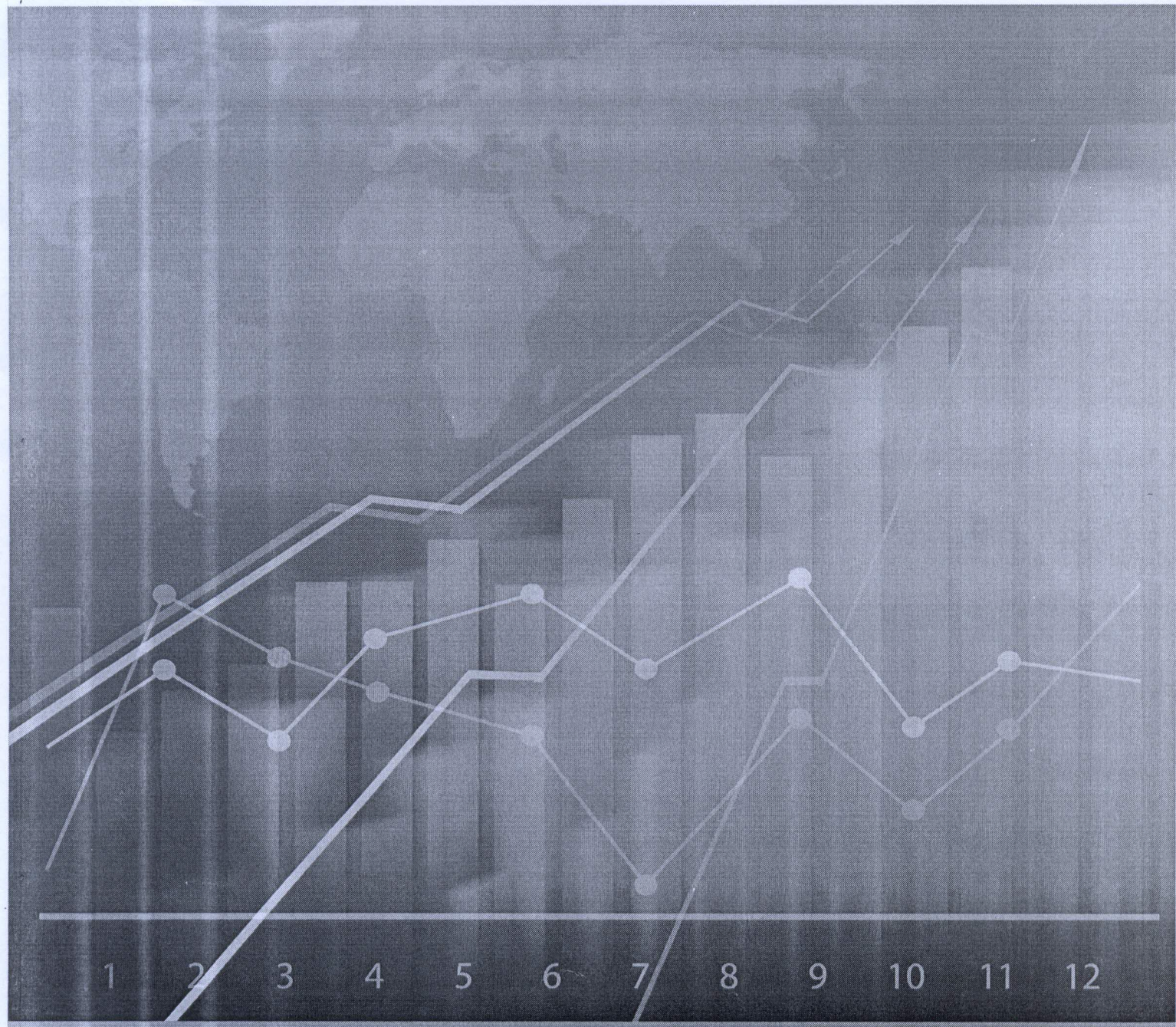


MINISTRY OF EDUCATION AND TRAINING OF VIETNAM
NATIONAL ECONOMICS UNIVERSITY

MINISTRY OF EDUCATION AND TRAINING OF VIETNAM
NATIONAL ECONOMICS UNIVERSITY

INTERNATIONAL CONFERENCE PROCEEDINGS

EMERGING ISSUES IN ECONOMICS AND BUSINESS IN THE CONTEXT OF INTERNATIONAL INTEGRATION



NATIONAL ECONOMICS UNIVERSITY PRESS

HANOI DECEMBER 2017

**MINISTRY OF EDUCATION AND TRAINING OF VIETNAM
NATIONAL ECONOMICS UNIVERSITY**

INTERNATIONAL CONFERENCE PROCEEDINGS

**EMERGING ISSUES IN ECONOMICS
AND BUSINESS IN THE CONTEXT OF
INTERNATIONAL INTEGRATION**

**National Economics University Press
Hanoi, December 2017**

ANALYSIS OF FACTORS AFFECTING ACCESS TO BASIC EDUCATION OF ETHNIC MINORITY CHILDREN IN VIETNAM	
<i>Vu Duy Nguyen, Nguyen Dinh Hung</i>	277
SOLUTIONS TO VIETNAMESE LABOR MARKET IN THE PERIOD OF INTERNATIONAL INTEGRATION	
<i>Nguyen Huu Tan</i>	297
SYSTEMIC GOVERNANCE AND INTERVENTION: CASE STUDY OF VIETNAMESE SOCIO-ECONOMICS DEVELOPMENT PLANNING	
<i>Vu Thi Tuyet Mai</i>	307
THE REVOLUTION OF AGRICULTURE 4.0 AND SUSTAINABLE AGRICULTURE DEVELOPMENT IN VIETNAM	
<i>Luu Tien Dung, Nguyen Thi Kim Hiep</i>	317
THE VALUE OF AN IMPROVEMENT IN ENVIRONMENTAL QUALITY AND BIODIVERSITY WITHIN A MARINE PROTECTED AREA	
<i>Bui Bich Xuan</i>	329
ENSURE CLEAN WATER SUPPLY AND ENVIRONMENTAL SANITATION FOR ETHNIC MINORITY PEOPLE IN RURAL AREAS OF VIETNAM	
<i>Nguyen Thi Hong Trang, Tran Lan Huong, Dinh Viet Hoang</i>	345
PART 2: BUSINESS AND MANAGEMENT ISSUES IN THE CONTEXT OF INTERNATIONAL INTEGRATION	
IMPACT FACTORS FOR THE DECISION TO USE INTERNET BANKING OF CUSTOMERS	
<i>Luu Tien Thuan, Truong Thi Kim Tien</i>	355
DETERMNANTS OF THE INTENTION TO USE MOBILE BANKING: AN EMPIRICAL STUDY IN VIETNAM	
<i>Nguyen Thi Hoang Yen, Nguyen Thi Tuyet Mai</i>	363
MANAGEMENT OF CONTRACTS OF CONSTRUCTION WITH FOREIGN ELEMENTS AND THE NEED OF COST INFORMATION: THE CASE OF VIETNAM	
<i>Nguyen La Soa, Tran Manh Dung</i>	383
CONTROLLING THE CAPITAL ADEQUACY OF COMMERCIAL BANKING SYSTEM IN VIETNAM	
<i>Truong Thi Hoai Linh</i>	397

THE REVOLUTION OF AGRICULTURE 4.0 AND SUSTAINABLE AGRICULTURE DEVELOPMENT IN VIETNAM

Luu Tien Dung

Lac Hong University

Email: luutiendung179@gmail.com

Nguyen Thi Kim Hiep

Lac Hong University

Email: hiepnk@lhu.edu.vn

Abstract:

Over the past three decades of renovation, Vietnam has become self-sufficient in food with an annual export of 30 billion USD, providing livelihoods for 10 million rural households and contributing nearly 22 percent of the gross domestic product and 23-35 percent of exports. However, the growth model was mainly extensive manner, natural resources intensive-driven. Growth of this sector tends to grow slowly due to spontaneous and small-scale production, limited technological application in agro-forestry-fisheries, the stagnation of expansion of arable lands, scarcity of water resources, advancing environmental degradation, negative impacts of climate change, competition between food crops and bio-energy crops in the use of limited natural resources, rapid urbanization and a declining agricultural labor force. In order to achieve improved and sustainable agricultural production and productivity growth largely depends on the advancement of agricultural research and its effective applications at farmer's fields through the transfer of technology and innovation. In this context, agriculture 4.0 and hi-tech agriculture will play the new strategic role for agriculture growth; maintain the quality of the environment and other sustainable aspects. This study analyzes the current applications of agriculture 4.0 and hi-tech for sustainable agriculture development in Vietnam; review of factor influencing the adoption of agriculture innovations of the farm operation in Vietnam and set of policy implications.

Keywords: Agriculture 4.0, hi-tech agriculture, sustainable agriculture development, technology adoption.

1. Introduction

Agriculture in Vietnam has changed dramatically, especially since the Doi Moi (1989). Agriculture productivity increased significantly due to mass adoption of new technologies, mechanization, chemical use, specialization and government policies that favored maximizing production. Although these changes have had many positive effects and reduced many risks in farming, there have also been significant costs. Arresting among

INTERNATIONAL CONFERENCE PROCEEDINGS
**EMERGING ISSUES IN ECONOMICS AND BUSINESS
IN THE CONTEXT OF INTERNATIONAL INTEGRATION**

NATIONAL ECONOMICS UNIVERSITY PRESS

Address: 207 Giai Phong Str, Hanoi
Website: <http://nxb.neu.edu.vn>-Email: nxb@neu.edu.vn
Ebook publishing website: <http://alezaa.com/ktqd>
Tel/Fax: (024) 36282486

In charge of publication: Dr. **NGUYEN ANH TU**, Director of NEU Press
In charge of content: Prof.Dr. **NGUYEN THANH DO**, Editor-in-Chief
Editor: TRINH THI QUYEN
Layout Editor: PHAM THE TIEN
Cover design: DANG TRAN THUONG
Proofreading: NGUYEN HOANG MINH, LUU THANH HA

Printed in 100 copies, size of 21 x 29.7 cm at
Limited Liability Company in Printing and Photocopying of Hoa Hong- Binh Lien
Address: 20, Alley 191A, Dai La Street, Dong Tam Ward, Hai Ba Trung District, Hanoi
Publishing Registration Number: 3598-2017/CXBIPH/1-707/ĐHKQTĐ
ISBN: 978-604-946-330-3
Publishing Decision Number: 866/QĐ-NXBĐHKQTĐ
Printed and Deposited for Archives in Quarter IV, 2017

NATIONAL ECONOMICS UNIVERSITY PRESS
207 Giai Phong, Hai Ba Trung District, Hanoi, Vietnam
Tel: (84-4) 36 280 280 | (84) 62776688 | Fax: (84-4) 36 280 280
NEU portal: www.neu.edu.vn

ISBN: 978-604-946-330-3



Not for sale