



**8th Annual Conference of the  
EuroMed Academy of Business**

**Innovation, Entrepreneurship and Sustainable Value  
Chain in a Dynamic Environment**

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**Innovation, Entrepreneurship and Sustainable Value  
Chain in a Dynamic Environment**

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All full papers and abstracts submitted to the EMRBI Conference are subject to a peer reviewing process, using subject specialists selected because of their expert knowledge in the specific areas.

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## FOREWORD

The Annual Conference of the EuroMed Academy of Business aims to provide a unique international forum to facilitate the exchange of cutting-edge information through multidisciplinary presentations on examining and building new theory and business models for success through management innovation.

It is acknowledged that the conference has established itself as one of the major conferences of its kind in the EuroMed region, in terms of size, quality of content, and standing of attendees. Many of the papers presented contribute significantly to the business knowledge base.

The conference attracts hundreds of leading scholars from leading universities and principal executives and politicians from all over the world with the participation or intervention of Presidents, Prime Ministers, Ministers, Company CEOs, Presidents of Chambers, and other leading figures.

This year the conference attracted about 300 people from over 70 different countries. Academics, practitioners, researchers and Doctoral students throughout the world submitted original papers for conference presentation and for publication in this Book. All papers and abstracts were double blind reviewed. The result of these efforts produced empirical, conceptual and methodological papers and abstracts involving all functional areas of business.

## **ACKNOWLEDGEMENT**

Many people and organizations are responsible for the successful outcome of the 7th Annual Conference of the EuroMed Academy of Business.

Special thanks go to the Conference Chair Professor Diego Begalli, the Conference Organising Committee and the University of Verona, in Italy, for accomplishing an excellent job.

It is acknowledged that a successful conference could not be possible without the special co-operation and care of the Track Chairs and Reviewers for reviewing the many papers that were submitted to this conference. Special thanks to the Session Chairs and Paper Discussants for taking the extra time to make this conference a real success.

The last but not the least important acknowledgment goes to all those who submitted and presented their work at the conference. Their valuable research has highly contributed to the continuous success of the conference.

## TABLE OF PAPERS

TOURIST DESTINATION IN A SUSTAINABILITY PERSPECTIVE “TOURIST KIT” .....	30
<i>Aiello, Lucia; Ferri, Maria Antonella</i> .....	30
SOCIALLY RESPONSIBLE CONSUMPTION IN EMERGING MARKETS: DO CULTURAL VALUES AND RELIGIOSITY MATTER?.....	43
<i>Akreml, Asma; Smaoui, Fatma</i> .....	43
DOING INTERNATIONAL BUSINESS RESEARCH IN EMERGING COUNTRIES: A REFLEXIVE APPROACH TO RE-EVALUATE THE WESTERN INSTITUTIONAL ETHICAL CODES .....	58
<i>Al-Abdin, Ahmed<sup>1</sup>; Roy, Taposh<sup>2</sup>; Gao, Youjiang<sup>2</sup></i> .....	58
DIVERSITY AMONG ITALIAN BOARDROOMS: DOES A QUOTA OF WOMEN IMPROVE CORPORATE GIVING? .....	71
<i>Alfiero, Simona; Cane, Massimo; De Bernardi, Paola; Venuti, Francesco</i> .....	71
INNOVATIVE FINANCE FOR SUSTAINABLE DEVELOPMENT OF THE TERRITORY.....	84
<i>Amatucci, Fabio<sup>1</sup>; Pascale, Anna Maria<sup>2</sup>; Serluca, Maria Carmela<sup>2</sup></i> .....	84
FROM SATISFACTION TO TRUST: TOWARDS THE INCLUSION OF ITALIAN CHAMBERS OF COMMERCE CUSTOMERS. ....	94
<i>Ambrosino, Gabriella<sup>1</sup>; Romanazzi, Salvatore<sup>2</sup></i> .....	94
ONTOLOGY OF SOCIALLY RESPONSIBLE INVESTING. APPLYING GLOBAL FRAMEWORKS FOR AN EMERGING MARKET IN RUSSIA .....	109
<i>Atnashev, Timur<sup>1</sup>; Vashakmadze, Teimuraz<sup>2</sup>; Yousef, Amaf<sup>3</sup></i> .....	109
THE INTERACTION BETWEEN ENTREPRENEURIAL CORPORATION AND CORPORATE REPUTATION: AN EMPIRICAL LONGITUDINAL STUDY .....	132
<i>Baierl, Ronny<sup>1</sup>; Gross, Uwe<sup>2</sup></i> .....	132
DO THE INVESTMENTS IN ARCHITECTURAL DESIGN HELP COMPANIES TO BE MORE SUSTAINABLE? FINDINGS FROM AN EXPLORATORY STUDY .....	144
<i>Battisti, Enrico<sup>1</sup>; Bonfanti, Angelo<sup>2</sup>; Canestrino, Rossella<sup>3</sup>; Castellani, Paola<sup>2</sup>; Pasqualino, Luca<sup>4</sup>; Rossato, Chiara<sup>2</sup></i> ..	144
SYSTEMIC APPROACH TO SOCIAL RESPONSIBILITY: BUILDING AND MAPPING SUSTAINABLE PRACTICES AT URAL FEDERAL UNIVERSITY .....	158
<i>Belyaeva, Zhanna</i> .....	158

MEASUREMENT OF ORGANIZATIONAL ATTRACTIVENESS FOR EMPLOYER BRANDING IN HIGHER EDUCATION.....	170
<i>Bendaraviciene, Rita.....</i>	170
STRATEGIC OPTIONS: THE BUILDING BLOCKS OF STRATEGIC AGILITY IMPLEMENTATION .....	192
<i>Beretta Zanoni, Andrea; Vernizzi, Silvia.....</i>	192
DOES COMMERCIALISATION OF R&D INFLUENCE BUSINESS MODEL MATURITY?.....	207
<i>Jaworska Anna<sup>1</sup>; Gabryelczyk Renata<sup>1</sup>; Pugacewicz Agnieszka<sup>2</sup>.....</i>	207
EPIDEMIC ECONOMIC DEVELOPMENT IN AGRICULTURE SONGHAI CASE .....	224
<i>Bijaoui, Ilan.....</i>	224
OPEN INCUBATORS AND CLUSTERS IN SOUTH SUDAN. A MOVE TO ACHIEVE PEACE.....	243
<i>Bijaoui, Ilan.....</i>	243
AUTHENTICITY AND FOOD SAFETY IN READY TO HEAT LASAGNE: AN EVALUATION AFTER THE 'HORSE MEAT SCANDAL' .....	258
<i>Boeri, Marco<sup>1</sup>; Brown, Hannah<sup>2</sup>; Longo, Alberto<sup>3</sup>; Agnoli, Lara<sup>4</sup>; De Salvo, Maria<sup>5</sup>.....</i>	258
GLOBAL COMMERCIAL IN LOCAL MARKETS: BEST PRACTICE FROM RED BULL?.....	272
<i>Bremser, Kerstin<sup>1</sup> / <sup>2</sup> " « - -   1« ž þ ñ þ ð ± § " - Almeida<sup>2</sup>.µ.....:.....?.....±.....¶.....?</i>	272
INNOVATION IN FAMILY FIRMS: AN ITALIAN SURVEY .....	285
<i>Bresciani, Stefano; Giacosa, Elisa; Broccardo, Laura; Truant, Elisa .....</i>	285
CHINESE DIRECT INVESTMENTS IN GERMANY: DEVELOPMENT AND IMPLICATIONS.....	302
<i>Britzelmaier, Bernd; Flum, Caroline; Gog, Martina .....</i>	302
HOW ITALIAN SMES MANAGE AND CONTROL THEIR PERFORMANCE? .....	331
<i>Broccardo, Laura; Culasso, Francesca; Elisa, Giacosa; Ferraris Alberto .....</i>	331
EXPLORING RELEVANCE IN SCHOLARLY TOP JOURNALS OF MANAGEMENT: FIRST STEPS OF A RESEARCH.....	342
<i>Brunetti, Federico<sup>1</sup>; Giaretta, Elena<sup>1</sup>; Bonfanti, Angelo<sup>1</sup>; Castellani, Paola<sup>1</sup>; Minozzo, Marco<sup>2</sup>; Rossato, Chiara<sup>1</sup>; Baccarani, Claudio<sup>1</sup>.....</i>	342
FIRMS' ENTRY CHOICES IN FOREIGN MARKETS: EMPIRICAL EVIDENCE FROM M.E.N.A. COUNTRIES .....	360
<i>Calza, Francesco; Cannavale, Chiara; Laurenza, Elena .....</i>	360

THE EFFECT OF NETWORK PARTICIPATION ON FIRM PERFORMANCE: A MATCHED-PAIRS ANALYSIS .....	375
<i>Cantele, Silvia; Vernizzi, Silvia</i> .....	375
ROLE OF EXPECTED AND LIVED EXPERIENCES IN SHAPING PLACE IMAGE .....	388
<i>Capitello, Roberta<sup>1</sup>; Agnoli, Lara<sup>1</sup>; Charters, Steve<sup>2</sup>; Begalli, Diego<sup>1</sup></i> .....	388
THE ROLE OF CELEBRITY ENDORSEMENT IN LUXURY BRANDS ADVERTISING PROCESSING AND ITS IMPACT ON WILLINGNESS TO PAY.....	402
<i>Carvalho, Catarina Peixoto; Azevedo, J. J. C. P.</i> .....	402
ANTECEDENTS AND EFFECTS OF CSR IMPLEMENTATION: A MULTIDIMENSIONAL CONCEPTUAL FRAMEWORK.....	417
<i>Chatzoglou, Prodromos; Amarantou, Vasiliki; Chatzoudes, Dimitrios; Aggelidis, Vassilios</i> .....	417
DISCOVER POTENTIAL SEGMENTS OF WINE SHOPS BASING ON SALES STRATEGIES BY CLUSTER ANALYSIS .....	431
<i>Chironi, Stefania; Bacarella, Simona; Altamore, Luca; Ingrassia, Marzia</i> .....	431
CORPORATE SOCIAL RESPONSIBILITY AND BRANDING STRATEGY. A COMPARATIVE STUDY OVER BANKING SECTOR IN ITALY AND THE UK .....	443
<i>Civera, Chiara; Candelo, Elena; Casalegno, Cecilia</i> .....	443
THE ADOPTION OF HEALTH LEAN MANAGEMENT PURSUING CHOOSING WISELY OBJECTIVES.....	459
<i>Crema, Maria; Verbano, Chiara</i> .....	459
LEAN & SAFETY PROJECTS ENHANCING PERFORMANCES IN HEALTHCARE PROCESSES: THREE CASE STUDIES .....	474
<i>Crema, Maria; Verbano, Chiara</i> .....	474
FAMILY FIRMS AND PROFESSIONALISATION: A SURVEY OF ITALIAN SMALL-MEDIUM ENTERPRISES .....	490
<i>Culasso, Francesca; Giacosa, Elisa; Manzi, Luca Maria; Truant, Elisa</i> .....	490
CRISIS AS AN INCENTIVE TO ECONOMIC TRANSFORMATION - FROM COMPETITION TO INTERDEPENDENCE MODEL.....	505
<i>Di Stefano, M. G.; Di Stefano, M. G.</i> .....	505
COUNTRY IMAGE: NATIONAL PRIDE OR PREJUDICE?.....	517



<i>De Sousa, Ana F. Antunes<sup>1</sup>; Nobre, Helena<sup>2</sup>; Farhangmehr, Minoo<sup>1</sup></i> .....	517
ENGAGING COMMUNITY IN SUSTAINABLE TOURISM DEVELOPMENT IN WORLD HERITAGE SITES. THE CASE OF THE DOLOMITES .....	528
<i>Della Lucia, Maria; Franch, Mariangela</i> .....	528
COMPETITIVENESS OF PORTUGUESE EXPORTS IN THE LAST DECADE.....	544
<i>Dos-Santos, António; Henriques, João; Gonçalves, João</i> .....	544
RELATIONSHIP BETWEEN CORPORATE PERFORMANCE, CLIMATE CHANGE DISCLOSURES AND CARBON INTENSITY OF BUSINESS ACTIVITIES .....	558
<i>Eleftheriadis, Iordanis M.; Anagnostopoulou, Evgenia G.; Diavastis, Ioannis E.</i> .....	558
PPP LAW AND SYNCRETISM.....	571
<i>Evangelatou, Konstantina<sup>1</sup>; Maniatis, Antonios<sup>2</sup></i> .....	571
ONLINE CORE COMMUNICATION AND ONLINE CORE PERCEPTION. IS THERE CONVERGENCE? .....	584
<i>Fait, Monica; Scorrano, Paola; Cavallo, Federica; Iaia, Lea; Maizza, Amedeo</i> .....	584
GAMIFICATION: A NEW PARADIGM OF VALUE CREATION IN MASS MARKET .....	598
<i>De Sousa, Ana F. Antunes<sup>1</sup>; Nobre, Helena<sup>2</sup></i> .....	598
DEVELOPMENT OF BUSINESS INTERNATIONALIZATION FORMS IN GLOBAL GEOECONOMIC SPACE.....	610
<i>Frolova, Yelena Dmitrievna<sup>1</sup>; Shishmintsev, Mikhail Yurievich<sup>2</sup></i> .....	610
COOPERATIVES AND GLOBAL ECONOMIC CRISIS 2008-2013: FINANCIAL DYNAMICS. SOME CONSIDERATIONS FROM ITALIAN CONTEXT .....	623
<i>Fusco, Floriana; Migliaccio</i> .....	623
MODELLING AND MEASURING BUSINESS PROCESSES TO ENHANCE PUBLIC ADMINISTRATION PERFORMANCE .....	637
<i>Chen, Y. C.; Wang, C. C.; Wang, C. C.; Wang, C. C.</i> .....	637
THE PREMIUM PRICE FOR ITALIAN RED WINE QUALITY ATTRIBUTES IN THE JAPANESE MARKET .....	651
<i>Galati, Antonino; Crescimanno, Maria; Tinervia, Salvatore</i> .....	651
PATTERNS OF COMPARATIVE ADVANTAGES AND THEIR CHANGE FOR THE WINE INDUSTRY IN THE INTERNATIONAL SCENARIO.....	663

<i>Galati, Antonino<sup>1</sup>; Crescimanno, Maria<sup>1</sup>; Tinervia, Salvatore<sup>1</sup>; Francesco Spezia<sup>2</sup>; Dario Siggia<sup>1</sup></i> .....	663
E-HRM ADOPTION BEHAVIOUR: DIFFUSION OF INNOVATION THEORY (DOI) PERSPECTIVE .....	676
<i>Galhena, Bandula Lanka</i> .....	676
HOW MANAGERS PERCEIVE AND ASSESS SUPPLY CHAIN RISKS? EMPIRICAL RESULTS FROM A SAMPLE OF EUROPEAN ORGANIZATIONS.....	705
<i>Gaudenzi, Barbara<sup>1</sup>; Confente, Ilenia<sup>1</sup>; Manuj, Ila<sup>2</sup></i> .....	705
THE ROLE OF EMOTIONS IN ADVERTISEMENT: A FIRST INVESTIGATION.....	717
<i>Giachino, Chiara<sup>1</sup>; Stupino, Margherita<sup>1</sup>; Petrarulo, Gabriella<sup>2</sup></i> .....	717
A NEW PARADIGM: OPEN SOCIAL INNOVATION. THE CASE OF GOOGLEGLASS4LIS.....	731
<i>Giuseppe, Tardivo; Santoro, Gabriele; Ferraris, Alberto</i> .....	731
GENDER ROLE PERCEPTIONS AMONG FEMALE STUDENTS OF ECONOMICS FROM CHINA, GERMANY, MEXICO, RUSSIA AND TURKEY.....	745
<i>Григоракис, Николаос<sup>1</sup>; Флорос, Христос<sup>2</sup>; Цангари, Харитини<sup>3</sup>; Цоукатос, Эвангелос<sup>2</sup></i> .....	745
TO GROW OR NOT TO GROW: IS IT REALLY JUST A RATIONAL CHOICE?.....	760
<i>Grandclaude, Didier; Nobre, Thierry</i> .....	760
SPIN-OFF AND MARKET REACTION: WHAT IS THE WSJ ROLE?.....	776
<i>Graziano, Elvira Anna</i> .....	776
COMBINED SOCIAL AND PRIVATE HEALTH INSURANCE VERSUS CATASTROPHIC OUT OF POCKET PAYMENTS FOR PRIVATE HOSPITAL CARE IN GREECE.....	792
<i>Grigorakis, Nikolaos<sup>1</sup>; Floros, Christos<sup>2</sup>; Tsangari, Haritini<sup>3</sup>; Tsoukatos, Evangelos<sup>2</sup></i> .....	792
MEASURING THE IMAGE OF ETHICAL FOOD.....	824
<i>Grimmer, Martin<sup>1</sup>; Viassone, Milena<sup>2</sup></i> .....	824
NEW THOUGHTS ON LEADERSHIP IN TURBULENT TIMES.....	837
<i>Hall, Roger<sup>1</sup>; Rowland, Caroline<sup>2</sup>; Stokes, Peter<sup>2</sup></i> .....	837
IMPACT OF WORK-PLACE INCIVILITY ON HORIZONTAL SOLIDARITY AND PERCEPTIONS OF JOB-INSECURITY.....	850
<i>Heilbrunn, Sibylle<sup>1</sup>; Itzkovich, Yariv<sup>2</sup></i> .....	850
UNEMPLOYMENT AND INFLATION RATES IN THE YEARS OF ECONOMIC TURBULENCES OR DO THE PHILLIPS CURVE RELATIONSHIPS STILL HOLD?.....	861

<i>Hinds, Richard<sup>1</sup></i>	861
MANAGING SOCIAL MEDIA ADOPTION - AN EXPLORATORY INTERNATIONAL CASE STUDY OF HOTEL ORGANIZATIONS.....	872
<i>fi ý á ¥ " μ á.....</i>	872
DETERMINANTS OF DESTINATION COMPETITIVENESS AND SUSTAINABILITY: A FACTOR AND CLUSTER ANALYSIS.....	886
<i>Iaffaldano Nicolaia<sup>1</sup>; Recchia Pasquale<sup>2</sup></i> .....	886
MUSEUM ENGAGES COMMUNITY: SOME EVIDENCE FROM ITALY.....	898
<i>Imperiale, Francesca<sup>1</sup>; Terlizzi, Valentina<sup>2</sup></i> .....	898
THE EXPERIMENTAL LAB: A TOOL FOR ENTREPRENEURIAL UNIVERSITY.....	909
<i>Iscaro, Valentina<sup>1</sup>; Castaldi, Laura<sup>1</sup>; Sepe, Enrica<sup>2</sup>; Turi, Claudio<sup>1</sup></i> .....	909
CORPORATE ICT STANDARDISATION MANAGEMENT - LESSONS FROM THE LITERATURE AND FROM CASE STUDIES.....	921
<i>Jakobs, Kai</i> .....	921
SEGMENTATION BASED ON EVALUATION OF A CLUBBING DESTINATION: AYIA NAPA....	936
<i>Kamenidou, Irene<sup>1</sup>; Mamalis, Spyridon<sup>1</sup>; Priporas, Constantinos-Vasilios<sup>2</sup></i> .....	936
THE CRITICAL ROLE OF PRODUCTION TECHNOLOGIES FOR WOOD AND FURNITURE KNOWLEDGE-INTENSIVE FIRMS.....	949
<i>Karagouni, Glykeria</i> .....	949
IS THERE A BALANCE BETWEEN DEMAND –DRIVEN AND POLICY - DIRECTED QUALITY CERTIFICATION?.....	963
<i>Karipidis, Philippos<sup>1</sup>; Tselempis, Dimitrios<sup>2</sup>; Karypidou Ioanna<sup>3</sup>; Aggelopoulos Stamatis<sup>4</sup></i> .....	963
THE INTERACTION BETWEEN FISCAL POLICY AND ECONOMIC GROWTH: CASE OF OECD COUNTRIES.....	976
<i>í ² . - ¾±   ¢1² ² ¾ º º.....</i>	976
THE IMPACT OF TOURISM ON LOCAL COMMUNITY.....	990
<i>í μ   " º º ²   º É ° ² " ± º   º.....</i>	990
INTERGENERATIONAL CONFLICT IN THE WORKPLACE: THE INFLUENCE OF WORK VALUE ORIENTATION.....	999
<i>Lazazzara, Alessandra; Quacquarelli, Barbara</i> .....	999



<i>Mele, Gioconda<sup>1</sup>; Stefanizzi, Pasquale<sup>2</sup>; Del Vecchio, Pasquale<sup>2</sup>; Ndou, Valentina<sup>2</sup>.....</i>	<i>1168</i>
<b>DISABILITY STAKEHOLDERS. CONSIDERATIONS FROM ITALIAN CONTEXT .....</b>	<b>1182</b>
<i>Migliaccio, Guido.....</i>	<i>1182</i>
<b>IMPLEMENTING SUSTAINABILITY IN WINERIES: ISSUES FROM AN ITALIAN CASE STUDY</b>	<b>1196</b>
<i>Moggi, Sara; Campedelli, Bettina; Leardini, Chiara .....</i>	<i>1196</i>
<b>GAINING LEGITIMACY IN NON-PROFIT GOVERNANCE. THE ROLE OF STAKEHOLDER ENGAGEMENT .....</b>	<b>1206</b>
<i>Moggi, Sara<sup>1</sup>; Zardini, Alessandro<sup>1</sup>; Leardini, Chiara<sup>1</sup>; Rossi, Gina<sup>2</sup>.....</i>	<i>1206</i>
<b>TEACHING BUSINESS ETHICS FROM A CHRISTIAN SOCIAL ETHICS PERSPECTIVE - STUDENT PERCEPTIONS.....</b>	<b>1215</b>
<i>Nicolaidis, Angelo.....</i>	<i>1215</i>
<b>INVESTMENT POLICY AND ECONOMIC PERFORMANCE: THE CASE OF ITALIAN LISTED COMPANIES .....</b>	<b>1240</b>
<i>Ossola, Giovanni; Giovando, Guido; Crovini, Chiara.....</i>	<i>1240</i>
<b>BANKS' GROSS LOANS LISTED ON THE ITALIAN STOCK EXCHANGE .....</b>	<b>1254</b>
<i>Ossola, Giovanni; Giovando, Guido; Crovini, Chiara.....</i>	<i>1254</i>
<b>VALUE CO-CREATION AND VALUE CO-DESTRUCTION IN THE PATIENT-PROVIDER RELATIONSHIP. THE CONTRIBUTION OF THE "HEALTH LITERACY" PERSPECTIVE.....</b>	<b>1266</b>
<i>Palumbo, Rocco .....</i>	<i>1266</i>
<b>WILL NEW TECHNOLOGIES CHANGE THE SHOPPING EXPERIENCE AS SOCIAL ACTIVITY? .....</b>	<b>1280</b>
<i>Pantano, Eleonora<sup>1</sup>; Verteramo, Saverino<sup>2</sup> .....</i>	<i>1280</i>
<b>THE GREEN AND SMART FURNITURE (GSF) RESEARCH PROJECT: A BEST PRACTICE IN INTEGRATED R&amp;D-BASED INNOVATION .....</b>	<b>1293</b>
<i>Papadopoulos, Ioannis<sup>1</sup>; Karagouni, Glykeria<sup>1</sup>; Trigkas, Marios<sup>2</sup>.....</i>	<i>1293</i>
<b>PREVALENCE OF 'FACE CONCEPT' AMONG SOUTH ASIAN CONSUMERS- A COMPARATIVE STUDY OF UNFOLDING THE FACETS IN DECISION MAKING PROCESS OF BUYING BEAUTY PRODUCTS.....</b>	<b>1308</b>
<i>Pervin, Shahina; Wilman, Mike; Ranchhod Ashok .....</i>	<i>1308</i>
<b>FROM A HOBBY TO AN INTERNATIONAL BUSINESS MINIMAL CORK CASE STUDY.....</b>	<b>1325</b>

<i>Pestana, Carolina; Meneses, Raquel</i> .....	1325
GLOBAL CORPORATE GOVERNANCE: THE MAELSTROM OF INCREASED COMPLEXITY - IS IT POSSIBLE TO LEARN TO RIDE THE DRAGON? .....	1335
<i>Phillipson, Sarah<sup>1</sup>; Johansson, Jeaneth<sup>2</sup>; Schley, Don<sup>3</sup></i> .....	1335
OPEN INNOVATION IN SMES. AN EXPLORATORY ANALYSIS IN THE WINE SECTOR.....	1350
<i>Prezenza, Angelo<sup>1</sup>; Abbate, Tindara<sup>2</sup>; Alfonso, Vargas<sup>3</sup></i> .....	1350
A STUDY ON MARKETING MIX OF E-TAILING AND THEIR RELATIONSHIP WITH CONSUMER MOTIVES: AN INDIAN STUDY .....	1364
<i>Priya, S. Samant<sup>1</sup>; Soni, K. Vimlesh<sup>2</sup>; Deshpande, Aashish<sup>3</sup>; Vrontis, Demetris<sup>4</sup></i> .....	1364
EFFICIENCY MEASUREMENT IN THE LITHUANIAN RETAIL COOPERATIVES.....	1388
<i>% ° ± □ , ¶ ® □ ¶ Ł , - ¸, ¶, ¶.....&amp;.....¼ ¶.....% ° ± □ , ¶, ¶.....</i>	1388
THE CONTRIBUTION MARGIN IN COMMERCIAL COMPANIES OF FURNITURE. SOME CONSIDERATIONS FROM THE ITALIAN CONTEXT .....	1398
<i>Rossetti, Luigi Umberto; Migliaccio, Guido</i> .....	1398
THE FINANCIAL CHOICES OF SMES. THE MAIN PROBLEMS OF ITALIAN AGRO-FOOD FIRMS' ACCESS TO FINANCE .....	1413
<i>Rossi, Matteo<sup>1</sup>; Siggia, Dario<sup>2</sup></i> .....	1413
SAAS ADOPTION: CRITICAL FACTORS FOR CRM APPLICATIONS.....	1423
<i>Rossignoli, Cecilia<sup>1</sup>; Zardini, Alessandro<sup>1</sup>; Mola, Lapo<sup>2</sup>; Francesca, Ricciardi<sup>1</sup></i> .....	1423
THRIVING IN MULTICULTURAL WORK SETTINGS.....	1437
<i>Rozkwitalska, Malgorzata<sup>1</sup>; Basinska, A. Beata<sup>2</sup></i> .....	1437
CORPORATE DISCLOSURE AND DIGITAL CULTURE: SOME EVIDENCES FROM THE ITALIAN STOCK EXCHANGE .....	1451
<i>Russo, Giuseppe<sup>1</sup>; Lombardi, Rosa<sup>2</sup>; Evangelista, Federica<sup>1</sup>; Palmaccio, Matteo<sup>3</sup></i> .....	1451
OUTCOME-ORIENTED PERFORMANCE MANAGEMENT SYSTEMS AND PUBLIC VALUE. FROM THEORY TO PACTICE .....	1464
<i>Russo, Salvatore</i> .....	1464
STRUCTURAL EQUATION MODELLING IN THE CONTEXT OF DESTINATION QUALITY EVALUATION .....	1481
<i>Ryglova, Katerina<sup>1</sup>; Vajcnerova, Ida<sup>2</sup>; Sacha, Jakub<sup>3</sup>; Ziaran, Pavel<sup>2</sup></i> .....	1481

UTILIZATION OF QUALITY LABELS IN EUROPEAN UNION .....	1488
<i>&amp; π § á ~ " @..... ' 2. ° 3/4.....</i>	1488
OPEN INNOVATION IN SMES: A SURVEY IN THE PIEDMONT AREA .....	1500
<i>Santoro, Gabriele; Ferraris, Alberto .....</i>	1500
LUXEMBOURG'S MULTICULTURAL, MULTILINGUAL EDUCATION SYSTEM AND HOFSTEDE .....	1513
<i>Schinzel, Ursula.....</i>	1513
THE LINK BETWEEN ENTREPRENEURIAL FEATURES AND IMMIGRANT FLOWS IN A REGIONAL ENTREPRENEURSHIP CONTEXT.....	1529
<i>Sekliuckiene, Jurgita<sup>1</sup>; Morkertaite, Rimante<sup>1</sup>; Kumpikaite Valiuniene, Vilmante<sup>2</sup>.....</i>	1529
ANALYSIS OF PLACE MARKETING STRATEGIES AND PROPOSAL OF A MODEL AIMED AT THE ECONOMIC DEVELOPMENT BASED ON RURAL LANDSCAPE.....	1543
<i>Serafini, Sara Maria.....</i>	1543
CONSTRAINED SUSTAINABILITY INNOVATION: INSIGHTS FROM AN INDUCTIVE STUDY OF THE GLOBAL WINE INDUSTRY .....	1558
<i>Signori, Paola<sup>1</sup>; Flint, Dan<sup>2</sup>; Golcic, Susan<sup>3</sup>.....</i>	1558
FROM PRODUCT INNOVATION TO COMPETITIVE ADVANTAGE: EVIDENCE FROM THE CASE OF TURRI & BOARI .....	1573
<i>Simeoni, Francesca.....</i>	1573
INNOVATION IN MULTINATIONAL COMPANIES: A PARADOX APPROACH .....	1586
<i>&amp; ~ ° þ ~ ¶ ) .á.....2.μ.....2.μ..β.Σ..2.....</i>	1586
UNDERSTANDING THE INTERNATIONAL MARKET SELECTION DECISIONS OF THE SOCIAL ENTERPRISE .....	1597
<i>Sirisena, Amila Buddhika.....</i>	1597
BUSINESS MODEL INNOVATION AND NETWORKS: A CASE STUDY RESEARCH.....	1611
<i>Soliman, Marco<sup>1</sup>; Stacchezzini, Riccardo<sup>2</sup>.....</i>	1611
INNOVATION AND MARKETING STRATEGY FOR MEDIUM ENTERPRISES- AN INDIAN STUDY .....	1624
<i>Srinivasan, R.<sup>1</sup>; Lohith, C.P.<sup>1</sup>; Kadadevaramth, Rajeshwar S.<sup>2</sup>; Shrisha, S.<sup>3</sup>.....</i>	1624

INNOVATION AND MARKETING STRATEGY FOR MEDIUM ENTERPRISES- AN INDIAN STUDY .....	1637
<i>Srinivasan, R.<sup>1</sup>; Lohith, C.P.<sup>1</sup>; Kadadevaramth, Rajeshwar S.<sup>2</sup>; Shrisha, S.<sup>3</sup>.....</i>	<i>1637</i>
REQUIRING COLLEGE DEGREES FOR LOW-SKILLED JOBS: ACCOUNTING FOR EMPLOYER MOTIVATIONS.....	1650
<i>Stark, Ernie<sup>1</sup>; Stepanovich, Paul<sup>2</sup>; Hopkins, Pamela<sup>2</sup>; Poppler, Paul<sup>3</sup>.....</i>	<i>1650</i>
THE ROLE OF UNIVERSITIES IN ENHANCING THE COMPETITIVENESS OF AGRIBUSINESS IN PALESTINE: APPLYING PORTER'S DIAMOND MODEL.....	1662
<i>Sultan, Suhail<sup>1</sup>; Qaimary, Dana<sup>2</sup>.....</i>	<i>1662</i>
PROGRESSION TOWARDS AN ENTREPRENEURIAL UNIVERSITY MODEL: THE CASE OF BIRZEIT UNIVERSITY (BZU).....	1679
<i>Sultan, Suhail Sami.....</i>	<i>1679</i>
TOWARDS HIGHER E-COMMERCE PARTICIPATION: SOCIAL NETWORK USAGE AND GOVERNMENT CONTROL.....	1689
<i>Teerakapibal, Surat.....</i>	<i>1689</i>
REAL-TIME ANALYSIS OF AN EMBRYONIC OIL & GAS INDUSTRY - THE CASE OF CYPRUS	1700
<i>Thrassou, Alkis.....</i>	<i>1700</i>
THE INDIRECT BUSINESS EFFECTS OF THE CYPRUS OIL & GAS INDUSTRY - A PREDICTIVE REAL-TIME ANALYSIS.....	1721
<i>Thrassou, Alkis<sup>1</sup>; Tsakiris, Theodoros<sup>1</sup>; Hadjistassou, Constantinos<sup>2</sup>; Vrontis, Demetris<sup>1</sup>.....</i>	<i>1721</i>
STRATEGIC IMPLICATIONS OF AN OIL & GAS INDUSTRY STUDY – THE CASE OF CYPRUS.	1740
<i>Thrassou, Alkis<sup>1</sup>; Vrontis, Demetris<sup>1</sup>; Papasolomou, Ioanna<sup>2</sup>.....</i>	<i>1740</i>
TRADE UNIONS AND WORK-FAMILY ISSUES: THE CHALLENGE OF WORK-LIFE INTERFACE IN A UNION ENVIRONMENT.....	1757
<i>Tremblay, Diane-Gabrielle.....</i>	<i>1757</i>
DISCRIMINATION IN MANAGING FOOTBALLERS: EVIDENCE FROM ITALY.....	1768
<i>Trequattrini, Raffaele; Ricci, Federica; Lardo, Alessandra; Battista, Mirella.....</i>	<i>1768</i>
EMERGING PATTERNS OF UNIVERSITY ROLE IN ENTREPRENEURSHIP: AN INTERNATIONAL COMPARISON.....	1783
<i>Trequattrini, Raffaele<sup>1</sup>; Lombardi, Rosa<sup>2</sup>; Lardo, Alessandra<sup>1</sup>; Cuzzo, Benedetta<sup>1</sup>.....</i>	<i>1783</i>



A METHODOLOGICAL APPROACH FOR EVALUATING STATE AIDS TOWARDS SME'S FOR R&D AND ENVIRONMENTAL PROJECTS .....	1798
<i>Trigkas, Marios<sup>1</sup>; Andreopoulou, Zacharoula<sup>1</sup>; Papadopoulos, Ioannis<sup>2</sup>; Kitsouli, Areti<sup>1</sup>.....</i>	<i>1798</i>
SERVICE ISSUES IN THE ITALIAN HEARING AID INDUSTRY.....	1824
<i>Ugolini, Marta<sup>1</sup>; Cobelli, Nicola<sup>1</sup>; Cassia, Fabio<sup>1</sup>; Gill, Liz<sup>2</sup>; Cameron, Ian D.<sup>2</sup>.....</i>	<i>1824</i>
ENERGY EFFICIENCY IN SUSTAINABLE DEVELOPMENT IN SOUTH AFRICA: A LEGAL ANALYSIS .....	1833
<i>Van der Bank, Christiena M.....</i>	<i>1833</i>
TOURISM NORMS.....	1844
<i>Ververi, Maria; Maniatis, Antonios.....</i>	<i>1844</i>
HOW CAN CITIZENS DEVELOP AND EVALUATE LOCAL TOURIST SERVICES? THE CASE OF THE PROVINCE OF CUNEO (ITALY).....	1851
<i>Viassone, Milena .....</i>	<i>1851</i>
BARRIERS TO ENERGY EFFICIENCY FOR ITALIAN SMES: THE SUPPLIERS' PERSPECTIVE ....	1864
<i>Vigolo, Vania; Testa, Federico .....</i>	<i>1864</i>
MANAGEMENT CONTROL, ACCOUNTABILITY AND LEARNING IN PUBLIC SECTOR ORGANIZATIONS: A CRITICAL ANALYSIS.....	1877
<i>Visser, Max .....</i>	<i>1877</i>
FACTORS INFLUENCING EGOVERNMENT PROGRESS IN GREECE: AN EMPLOYEE'S PERSPECTIVE.....	1890
<i>Voutinioti, Anastasia .....</i>	<i>1890</i>
THE MEASUREMENT OF COMPETITIVENESS OF THE ITALIAN MANUFACTURING INDUSTRY .....	1899
<i>Vrontis, Demetris<sup>1</sup>; Tardivo, Giuseppe<sup>2</sup>; Bresciani, Stefano<sup>2</sup>; Viassone, Milena<sup>2</sup>.....</i>	<i>1899</i>
APPLICATION OF INFORMATION SYSTEMS TO EDUCATION IN CROATIA.....	1912
<i>- " ® ±Kðrðna; Ējiljana; Grzunov, Jurica; mag. inf. et math. ....</i>	<i>1912</i>



## TABLE OF ABSTRACTS

SUPPLY CHAIN MANAGEMENT IN CUSTOMS LOGISTICS .....	1923
<i>Şenel, Mustafa; Çelikkale, Mustafa; Çelikkale, Mustafa</i> .....	1923
FACTORS INFLUENCING THE SHARE OF OWNERSHIP SOUGHT IN CROSS-BORDER ACQUISITIONS - UK PERSPECTIVES.....	1926
<i>Ahammad, Mohammad F.<sup>1</sup>; Vitor, Leone<sup>2</sup>; Tarba, Shlomo Y.<sup>3</sup>; Arslan, Ahmad<sup>4</sup></i> .....	1926
TRUST CONSTRUCTS AS AN ANTECEDENT FACTORS IN ISAS PERFORMANCE; THE CASE OF SAUDI ARABIA .....	1928
<i>Almasaad, Mushal</i> .....	1928
ATTITUDE AND EMOTIONS OF YOUNG PORTUGUESE TOURISTS TOWARD INTERNATIONAL RISK DESTINATIONS .....	1929
<i>Ambrosio, Vitor<sup>1</sup>; Loureiro, Sandra<sup>2</sup></i> .....	1929
MOBILE MARKETING: A NEW DIGITAL TREND FOR BRAND INNOVATION .....	1933
<i>Amirkhanpour, Monaliz<sup>1</sup></i> .....	1933
THE ROLE OF PRODUCERS ORGANIZATIONS ASSOCIATION (POA) IN TRANSNATIONAL COOPERATION PROJECTS .....	1936
<i>Andriano, Angela M.; Ingraio, Carlo; Tricase, Caterina</i> .....	1936
SERVITIZATION: A CONTENT ANALYSIS TO DRAW MANAGERIAL INSIGHTS FROM LITERATURE .....	1941
<i>Augurio, Alessandro</i> .....	1941
THE IMPACT OF FINANCIAL RISKS AND RESOURCES ON EXPORT INTENTION: EVIDENCE AMONG SMES IN AN EMERGING ECONOMY.....	1944
<i>Ayob, Abu H; Che Senik, Zizah</i> .....	1944
THE RELATIONSHIP BETWEEN QUALITY OF LIFE, PLACE ATTACHMENT AND THEIR CONSEQUENCES: A CASE STUDY OF BRAGA (PORTUGAL) .....	1951
<i>De Azavedo, António; Gonçalves, António; Gonçalves, António; Gonçalves, António</i> .....	1951
UNVEILING THE THIRD DIMENSION FROM EXPERIENTIAL LEARNING THEORY.....	1954
<i>Batista-Foguet, Joan Manuel<sup>1</sup>; Rosell, Berta<sup>2</sup>; &amp; Martínez, María José<sup>3</sup>; Bujós, Richard<sup>3</sup></i> .....	1954
ECONOMIC REGULATION IN THE SPHERE OF SOLID DOMESTIC WASTE COLLECTION AND PROCESSING .....	1955

<i>Belik, Irina<sup>1</sup>; Starodubets, Natalia<sup>2</sup>.....</i>	1955
COMPETENCES FOR CORPORATE SOCIAL RESPONSIBILITY: INSTITUTIONAL, BUSINESS AND CROSS-CULTURAL FACTORS.....	1959
<i>Belyaeva, Zhanna<sup>1</sup>; Kaufmann, Rudiger<sup>2</sup>.....</i>	1959
MULTIDISCIPLINARY LEARNING FOR FINNISH ENGINEERS AND INTERNATIONAL BUSINESS STUDENTS IN A MULTICULTURAL ENVIRONMENT.....	1964
<i>Bengoa, D.S.<sup>1</sup>; Kaufmann, H.R.<sup>2</sup>; Saarikoski, L.<sup>3</sup> Ž . . . . . &amp;.....</i>	1964
DAEDALUS, WINGS TO YOUR DREAMS: ONLINE EMPLOYABILITY PLATFORM.....	1965
<i>Bengoa, Dolores Sanchez<sup>1</sup>; Sakka, Georgia<sup>2</sup>.....</i>	1965
IMPLEMENTING BUSINESS ETHICS IN SALES ORGANIZATIONS.....	1969
<i>Berggren, Benny.....</i>	1969
SOCIAL REPORTING AND COMPANY VALUATION.....	1972
<i>Bianchi, Maria Teresa; Nardecchia, Alessia.....</i>	1972
THOUGHTFULLY CURATED CONSULTING AND TEACHING PRACTICES.....	1976
<i>Bombelli, M. Cristina<sup>1</sup>; Jirkovska, Blanka<sup>2</sup>; Martinelli, Teresa<sup>3</sup>; Sawyer, Carol H.<sup>3</sup>; Walling, Barbara<sup>3</sup>.....</i>	1976
THE CO-DESIGN DEVELOPMENT AS A PROCESS OF TRANSLATION.....	1987
<i>Bullini Orlandi, Ludovico.....</i>	1987
CORPORATE SOCIAL PERFORMANCE AND FINANCIAL PERFORMANCE: FURTHER SUGGESTIONS FROM A LITERATURE REVIEW.....	1990
<i>Cantele, Silvia; Francescato, Andrea; Campedelli, Bettina.....</i>	1990
SUSTAINABILITY IN AGRIBUSINESS SMES' NETWORKS: THE "LCA IN RETE" CASE.....	1994
<i>Cantele, Silvia.....</i>	1994
CORPORATE SOCIAL RESPONSABILITY: A TOPIC OF BUSINESS (LAW) IN THE MARKET.....	1999
<i>Caprara, Andrea.....</i>	1999
ANALYSIS AND INSIGHTS ON PRODUCERS ORGANIZATIONS AND ASSOCIATIONS OF PRODUCERS ORGANIZATIONS (POS/APOS) IN EU AND NATIONAL REGULATIONS.....	2003
<i>Fiore, Maria Antonietta.....</i>	2003
CORPORATE SOCIAL RESPONSIBILITY AND CUSTOMER LOYALTY IN TAIWAN'S INTERCITY BUS INDUSTRY.....	2006
<i>Chang, Yu-Hern<sup>1</sup>; Yeh, Chung-Hsing<sup>2</sup>; Su, Chen<sup>1</sup>.....</i>	2006

THE IMPACT OF CORPORATE SOCIAL RESPONSIBILITY ON CONSUMER BEHAVIOUR: AN EMPIRICAL STUDY .....	2009
<i>Chatzoudes, Dimitrios; Chatzoglou, Prodromos</i> .....	2009
THE EVOLUTION OF THE CONCEPT OF NETWORK IN MANAGEMENT SCIENCE: THE CONTRIBUTION OF THE ECONOMIC GEOGRAPHY .....	2012
<i>Cherni, Maryem; Ceapraz, Ion Lucian; Kotbi, Gaelle</i> .....	2012
WHEN DO FIRMS PAY DIVIDENDS? EVIDENCE OF THE DIVIDEND PAYOUT POLICY OF ITALIAN LISTED COMPANIES .....	2013
<i>Chesini, Giusy; Glaretta, Elisa</i> .....	2013
DO LIGHT FOOD CLAIMS LEAD TO OBESITY? AN INVESTIGATION WITH BEHAVIOURAL DATA.....	2016
<i>Chrysochou, Polymeros; Winther, Kristian</i> .....	2016
DOCTORS AS MANAGERS IN THE CONTEXT OF LIMITED RESOURCES: AN ECONOMIC STUDY OF THE ALTERNATIVE THERAPEUTIC OPTIONS FOR CHRONIC RENAL DISEASE.....	2019
<i>Da Silva, Sara Pinto<sup>1</sup> &amp; <sup>1</sup> <sup>2</sup>; Silva, Anabela Martins<sup>1</sup></i> .....	2019
IMPACT OF ENVIRONMENT ON ENTREPRENEURIAL DRIVE: THE CASE OF THE ISRAELI KIBBUTZ. ....	2021
<i>Davidovich, Liema<sup>1</sup>; Heilbrunn, Sibylle<sup>2</sup></i> .....	2021
A2A RELATIONS AND INTERACTIONS IN AGRI-FOOD SUPPLY CHAINS. A VIABLE SYSTEMS PERSPECTIVE. ....	2022
<i>Di Nauta, Primiano; Merola, Biagio</i> .....	2022
INTERNAL FACTORS FOR THE FORMATION OF R&D INTENSIVE ENTREPRENEURIAL BORN GLOBAL FIRMS.....	2025
<i>Dlugoborskyte, Vytaute; Petraite, Monika</i> .....	2025
THE ROLE OF INTERGENERATIONAL RELATIONS IN THE DEVELOPMENT OF SMALL BUSINESS.....	2029
<i>Dobrynina, Valentina I.; Kalchenko, Anna G.; Kolesnikova, Irina V.</i> .....	2029
CAN INNOVATIONS BE SUSTAINABLE? .....	2032
<i>Erne, Rainer; Biermann, Brigitte</i> .....	2032

CROSS-BORDER M&A AND GOODWILL IMPAIRMENT LOSSES: SOME PRELIMINARY EVIDENCE.....	2036
<i>Florio, Cristina<sup>1</sup>; Corbella, Silvano<sup>1</sup>; Lionzo, Andrea<sup>2</sup>.....</i>	<i>2036</i>
A STUDY OF INFLUENTIAL FACTORS IMPACT ETHICAL BEHAVIOR AT THE WORKPLACE	2039
<i>Fraj, Waleed Zaki .....</i>	<i>2039</i>
PROFILE OF INTERNATIONAL TOURIST IN SPAIN BASED ON HOTEL OCCUPANCY SURVEY: ARE THERE ANY DIFFERENCES BY COUNTRY OF RESIDENCE? .....	2041
<i>/ μ -Gallego, Ana<sup>1</sup>; Mures-S, η ± · α ± ± " ¶ž ¶ž¶ž 3α" ½<sup>a</sup> 2 ž .....±: a " - " ¶ž.....</i>	<i>2041</i>
BRIDGING THE FUNDING GAP. NEW FINANCING INSTRUMENTS FOR COMPANIES IN ITALY .....	2044
<i>Giaretta, Elisa; Chesini, Giusy.....</i>	<i>2044</i>
CUSTOMER AGGRESSION, FELT ANGER AND EMOTIONAL DEVIANCE: THE MODERATING ROLE OF JOB AUTONOMY .....	2047
<i>Goussinsky, Ruhama; Livne, Yael.....</i>	<i>2047</i>
THRIVING OF OLDER WORKERS: PERSONALITY AND EMPLOYABILITY.....	2051
<i>Hennekam, Sophie.....</i>	<i>2051</i>
CHINESE OUTWARDS FDI TO SMALL EUROPEAN ECONOMIES – WHAT MAKES SOME COUNTRIES MORE ATTRACTIVE THAN OTHERS?.....	2053
<i>Homlong, Nathalie<sup>1</sup>; Springler, Elisabeth<sup>2</sup> .....</i>	<i>2053</i>
ORGANIZATIONAL IDENTIFICATION, EMPLOYEE-CUSTOMER IDENTIFICATION, CUSTOMER ORIENTATION AND THEIR IMPLICATION ON JOB ENGAGEMENT AT HYPERMART RETAIL STORE.....	2054
<i>Huliselan, Juanna Judith<sup>1</sup>; Gunadi, Willy<sup>2</sup>; Tulus Makmud, Mariska<sup>3</sup>.....</i>	<i>2054</i>
A REVISED THEORY TO ESTIMATE RETURNS IN RENEWABLE ENERGY INVESTMENTS .....	2056
<i>fi μ - η ° α ± ± <sup>1</sup>; Berigaa, Delofjes S.<sup>2</sup>. α. ±.....</i>	<i>2056</i>
THE LEARNING ROLE OF OFFSHORE OUTSOURCING IN DIVERSIFIED OFFRINGS: EVIDENCE FROM EMERGING ECONOMY.....	2058
<i>Irfan, Irfan.....</i>	<i>2058</i>
LEAN WAREHOUSE CULTURE AS A CRITICAL SUCCESS FACTOR FOR A LEAN WAREHOUSE MANAGEMENT SYSTEM IMPLEMENTATION IN WMS CONTROLLED WAREHOUSES .....	2059

THE EFFECTS OF DIFFERENT TYPES OF COMMITMENT ON THE VOLUNTRARY TURNOVER INTENTION OF ISRELI HIGH TECH EMPLOYEES - INNOVATIVE FINDINGS .....	2063
<i>Kessler Ladelsky, Limor; Weisberg, Jacob</i> .....	2063
FINANCIAL ASSETS ALLOCATION AND RISK TOLERANCE OF IMMIGRANT INVESTORS... ..	2066
<i>Kushnirovich, Nonna</i> .....	2066
MUTUAL RECIPROCAL OBLIGATIONS OF SELF-INITIATED EXPATRIATES AND PSYCHOLOGICAL CONTRACTS IN MULTINATIONAL CORPORATIONS .....	2068
<i>Kyriakidou, Niki<sup>1</sup>; Zhang, Crystal<sup>2</sup>; Mohan, Vivek<sup>1</sup></i> .....	2068
EVALUATING THE INTERNATIONALISATION STRATEGY: THE CASE STUDY OF A SME IN THE UK CHEMICAL DISTRIBUTION INDUSTRY .....	2072
<i>Kyriakidou, Niki<sup>1</sup>; Lampadariou, Evripidis<sup>2</sup></i> .....	2072
FAMILY FIRMS AND INNOVATION: THE ROLE OF VENTURED START-UPS .....	2076
<i>Lai, Alessandro<sup>1</sup>; Panfilo, Silvia<sup>2</sup>; Stacchezzini, Riccardo<sup>3</sup></i> .....	2076
DIGITAL WEB-BASED TECHNOLOGIES: A WAY FOR INNOVATION IN AGRICULTURAL SECTOR? AN EMPIRICAL STUDY OF PRODUCERS ORGANIZATIONS IN THE SOUTH OF ITALY. ....	2079
<i>Lamonaca, Emilia<sup>1</sup>; Scarinci, Alessia<sup>1</sup>; Silvestri, Raffaele<sup>2</sup></i> .....	2079
THE RELATIONSHIP BETWEEN WORK STRESSORS, EMOTIONAL LABOR AND BURNOUT AMONG MENTAL HEALTH SERVICE PROVIDERS.....	2082
<i>Livne, Yael<sup>1</sup>; Goussinsky, Ruhama<sup>2</sup>; Kustitzki, Hava<sup>2</sup>; Grinshpoon, Alexander<sup>2</sup></i> .....	2082
I WANT THAT SMARTPHONE! SOURCES OF BRAND EQUITY .....	2086
<i>Loureiro, Sandra Maria Correia<sup>1</sup>; Lopes, Rui<sup>2</sup></i> .....	2086
I AM AVOIDING IT! A SENIORS' PERSPECTIVES ABOUT ADVERTISING .....	2089
<i>Loureiro, Sandra Maria Correia<sup>1</sup></i> / <i>2<sup>o</sup> ± í α<sup>-21</sup> .. ¶</i> .....	2089
PUBLIC UNIVERSITIES: A NEW GOVERNANCE APPROACH TO ACHIEVE FINANCIAL SUSTAINABILITY .....	2092
<i>Lucianelli, Giovanna</i> .....	2092
HAVE BUSINESS ECONOMICS RESEARCHES ANY IMPACT ON ENTREPRENEURSHIP? .....	2095
<i>Lucianelli, Giovanna</i> .....	2095

THE MEDIATING EFFECT OF SERVICE INNOVATION ON THE DYNAMIC CAPABILITY AND ORGANIZATIONAL PERFORMANCE RELATIONSHIP: EMPIRICAL EVIDENCE FROM THE PUBLIC SECTOR ..... 2098  
 Žaláková Š 2 Flajšová Y .. Žaláková M ..# ... .. 2098

INVESTIGATING THE INFLUENCE OF LEARNING ORIENTATION ON THE ACCEPTANCE AND USE OF NEW INFORMATION TECHNOLOGIES AMONG OLDER ADULTS ..... 2100  
 Macedo, Isabel Maria<sup>1</sup> # ... .. 1; Llaó, María Na<sup>2</sup> ... .. 2100

HORIZONTAL COLLABORATIONS IN AGRI-FOOD SUPPLY CHAIN: PRODUCERS' MARKETING CHOICES WITHIN THE FAIR TRADE CHAINS ..... 2102  
 Magliocca, Pierpaolo; Conte, Alessandra..... 2102

THE SAVINGS SCHEMES CLUBS (STOKVELS) AS PROSPECTIVE CUSTOMER BASE FOR SME'S ..... 2105  
 Malefane, Lebusa..... 2105

MATHEMATICAL MODELS FOR THE MANAGEMENT OF PUBLIC RESOURCES IN A SPENDING REVIEW CONTEXT..... 2106  
 Masi, Anita ..... 2106

IDENTIFICATION AND CLASSIFICATION OF IRISH BEEF FARMING SYSTEMS: A MULTIVARIATE ANALYSIS OF SUSTAINABILITY INDICATORS..... 2111  
 Micha, Evgenia; Heanue, Kevin; Dillon, Emma; Hennessy, Thia ..... 2111

CAN THE RIGHT EMOTIONS, ATTITUDE AND IMAGE FOR THE WORKPLACE BE LEARNED? ..... 2114  
 Mitchell, Ben; Kyriakidou, Niki ..... 2114

THE TIME IS OVER FOR ITALY'S SPECIAL JURISDICTION ON WATER RESOURCES. A COMPARATIVE PERSPECTIVE ..... 2116  
 Moro, Sergio..... 2116

EXAMINING THE FACTORS AFFECTING FEMALES' VENTURES PERFORMANCE IN THE CREATIVE INDUSTRY ..... 2119  
 Mylonas, Naoum; Petridou, Eugenia..... 2119

AN ANALYTICAL STUDY ON ROLE CONFLICT, ROLE AMBIGUITY AND EMPLOYEE PERFORMANCE USING FACTOR ANALYSIS AND NON-PARAMETRIC CHI-SQUARE TEST.. 2125  
 Naik, Kasturil; Srinivasan, Srini R<sup>2</sup> ..... 2125



THE IMPORTANCE OF BRAND LOVE TO EXPLAIN LUXURY BRAND CONSUMPTION AND LUXURY BRAND RELATIONSHIPS .....	2128
<i>Oliveira, Mafalda<sup>1</sup>; Nobre, Helena<sup>2</sup></i> .....	2128
WHAT NOT TO DO IN IMPLEMENTING INTERNAL MARKETING WITHIN YOUR ORGANISATION: THE CASE OF A BANKING ORGANISATION IN CYPRUS” .....	2129
<i>Papasolomou, Ioanna; Melanthiou, Yioula; Yiannakou, Hercules</i> .....	2129
THE ENVIRONMENTAL MONITORING ACTION OF PRODUCER ORGANIZATION ASSOCIATION.....	2132
<i>Pellegrini G.; Ingraio C.; Tricase C.</i> .....	2132
THE ROLE OF PO IN THE PROMOTION OF ECONOMIC AND ENVIRONMENTAL SUSTAINABILITY: THE CASE STUDY OF APROLI BARI.....	2134
<i>Pellegrini G.<sup>1</sup>; Silvestri R.<sup>1</sup>; Camposeo S.<sup>2</sup></i> .....	2134
THE GROWTH PATH OF VENTURE-BACKED ICT SCALEUPS .....	2135
<i>Pisoni, Alessia<sup>1</sup>; Onetti, Alberto<sup>2</sup></i> .....	2135
THE IMPACT OF COUNTRY IMAGE AND COUNTRY-OF-ORIGIN ON THE WILLINGNESS TO PAY A PREMIUM PRICE FOR FASHION PRODUCTS: A CROSS-NATIONAL ANALYSIS ON DEVELOPING COUNTRIES.....	2139
<i>Pucci, Tommaso<sup>1</sup>; Casprini, Elena<sup>2</sup>; Guercini, Simone<sup>3</sup>; Zanni, Lorenzo<sup>1</sup></i> .....	2139
FINANCIAL RATIOS AND SECTOR KPIS: ARE THEY TWO FACES OF THE SAME COIN? EVIDENCE FROM A FEW SELECTED COMPANIES IN THE ITALIAN CONTEXT .....	2141
<i>Roffia, Paolo</i> .....	2141
EMERGING GOVERNANCE PATTERNS FROM ITALIAN SOCIAL COOPERATIVES .....	2143
<i>Rossignoli, Francesca<sup>1</sup>; Lionzo, Andrea<sup>2</sup></i> .....	2143
ORDER PLACEMENT AND DISTRIBUTION: THEIR IMPACT ON SATISFACTION AND WORD OF MOUTH.....	2147
<i>Russo, Ivan; Gaudenzi, Barbara; Confente, Ilenia; Borghesi, Antonio</i> .....	2147
INVESTIGATING SALES MANAGEMENT ROLE IN COMMERCIAL RETURNS: ENHANCING THE CHANGES OF CUSTOMER NEEDS .....	2152
<i>Russo, Ivan<sup>1</sup>; Palanga, Paola<sup>2</sup>; Cardinali, Silvio<sup>2</sup></i> .....	2152
THE MARKETING PROCESS OF MEDICAL TOURISM .....	2157

<i>Rydbäck, Michelle ; Hyder, Akmal; Borg, Erik; Osarenkhoe, Aihie</i> .....	2157
RECONCEPTUALISING THE CONSUMER JOURNEY IN THE DIGITAL AGE – AN EXPLORATORY STUDY OF THE UNITED KINGDOM RETAIL SECTOR.....	2160
<i>Scott, Tamsin<sup>1</sup>; Scott, Peter<sup>2</sup>; Stokes, Peter<sup>3</sup>; Moore, Neil<sup>3</sup>; Smith, Simon<sup>3</sup>; Ward, Tony<sup>3</sup></i> .....	2160
INTERNATIONALIZATION AND OPEN INNOVATION: TOWARDS THE INTEGRATED FRAMEWORK.....	2164
<i>Sekliuckiene, Jurgita; Morkertaite, Rimante;</i> .....	2164
BRAND LOVEMARKS: ESTABLISHING THE VALIDITY AND RELIABILITY OF A NEW MULTIDIMENSIONAL SCALE .....	2167
<i>Shuv-Ami, Avichai</i> .....	2167
BRAND EQUITY FOR FOOTBALL TEAMS.....	2171
<i>Shuv-Ami, Avichai</i> .....	2171
THE INFLUENCE OF MANAGEMENT FRAMEWORKS ON THE ACCOUNTING INFORMATION SYSTEM: THE SPECIFIC CASE OF PUBLIC HOSPITALS.....	2176
<i>Silva, Anabela Martins; Macedo, Isabel Maria</i> .....	2176
PERCEPTIONS OF HOSPITAL LEADERSHIP CONCERNING THE RESOURCE TO BENCHMARKING METHOD AS A MANAGEMENT TOOL .....	2178
<i>Silva, Anabela Martins<sup>1</sup></i> .....	2178
LIMITING QUALITY FACTORS IN WINE TOURISM SERVICES .....	2180
<i>&amp; @ ¼ - 2 1 ¾</i> .....	2180
THE IMPACT OF DIGITAL MARKETING & SOCIAL MEDIA IN HIGHER EDUCATION MARKETING STRATEGIES. THE CASE OF KOSOVO. ....	2182
<i>Sopa, Faton; Kapoulas, Alexandros</i> .....	2182
BIG DATA AND THE CONSTRUCTION OF CALCULATIVE CENTRES: HOW BIG DATA RESHAPES ORGANIZATIONAL POWER RELATED TO INFORMATION MANAGEMENT .....	2185
<i>Stacchezzini, Riccardo; Zardini, Alessandro</i> .....	2185
A CROSS-CULTURAL EXAMINATION OF NEGOTIATION OUTCOMES EMPLOYING SCENARIOS .....	2188
<i>Stefanidis, Abraham<sup>1</sup>; Banai, Moshe<sup>2</sup>; Erkus, Ahmet<sup>3</sup>; Shetach, Ana<sup>4</sup></i> .....	2188
THE USE OF SOCIAL MEDIA IN CORPORATE SOCIAL RESPONSIBILITY DISCLOSURE.....	2189

*Testarmata, Silvia<sup>1</sup>; Fortuna, Fabio<sup>1</sup>; Ciaburri, Mirella<sup>2</sup>..... 2189*

THE IMPACT OF MARKET ORIENTATION ON DIFFERENT TYPES OF FIMRS' INNOVATION 2198

*Turulja, Lejla<sup>1</sup> ; μ ¶ ÷ æ ± æ<sup>a</sup> - § Ê<sup>2</sup> ÷ Ê Ž ÷ Ž @ 2-1æ ÷ <Ê ÷ ÷<sup>2</sup>Ê<sup>3</sup> æ...ž...μ...¶..... 2198*

MANAGING EXPLORATIVE ACTIVITIES AND DUAL EMBEDDEDNESS IN FOREIGN SUBSIDIARIES: A CASE STUDY IN JAPANESE MNCS..... 2202

*Yamamoto, Takao<sup>1</sup>; Kuwana, Yoshiharu<sup>2</sup>..... 2202*

TALENT MANAGEMENT THROUGH EMPLOYER BRANDING..... 2205

*, ® ¶ " " .....ž.....¥.....μ...μ...æ..... 2205*

THE IMPORTANCE OF TRANSNATIONAL COOPERATION OF POS: THE CASE STUDY OF PUGLIA FRUIT JOINT WITH SPANISH SANLUCAR..... 2207

*Zaza, C.; Caruso, D.; La Sala, P..... 2207*



# **BOOK OF CONFERENCE PROCEEDINGS**

## DISCOVER POTENTIAL SEGMENTS OF WINE SHOPS BASING ON SALES STRATEGIES BY CLUSTER ANALYSIS

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### ABSTRACT

The HORECA channel is a very important for promoting high-quality wines. In fact, through this distribution channel, consumers can experience wines before purchasing, taste them also with foods and receive additional information. Market segmentation is very crucial for businesses; therefore specific criteria must be applied for a successful segmentation. In this study wine shop segmentation was carried out by explorative hierarchical Cluster Analysis in order to discover potential segments of wine shops and wine bars based on their sales strategies. Moreover, wine shop(s) role in dissemination of information about quality wines was investigated. A census was carried out in a selected Italian city. Results show that wine shops were clearly clustered in three main groups representing different business profiles. The majority of wine shops belong to the cluster *Quality-oriented*. This result may be interesting if compared with that of other Italian cities or geographic zones. This study not only provides scientific information for consumers to distinguish different wine shops in their market of reference, but also may be useful for wineries in order to know the role of wine shops within the HORECA channel for the distribution of quality wines in different cities or geographic zones.

**Keywords:** *business segmentation, target of consumers, census survey, hierarchical cluster analysis, HORECA channel*

### INTRODUCTION

Marketing channels are different in the wine industry by type of wine distributed and by Country of sale (Hakansson and Persson, 2004; Bariteaux et al, 2006). According to Hall and Mitchell (2008) the actors of marketing channels belong to two main categories: 1. *Marketmakers* and 2. *Matchmakers*<sup>1</sup>. In

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<sup>1</sup> Marketmakers take ownership of the product in the intermediation process making their money from the 'bid-ask spread' (i.e. the difference between what they can buy it from the supplier - the bid - and what they can sell it to a retailer - the ask), matchmakers make economic gain through commissions on the transactions.

most wine markets around the world marketmakers dominate, but in France matchmakers are more prominent. Due to high volumes dealt the *Marketmakers* category includes wholesalers, distributors, importers and exporters. These intermediaries use the HORECA trade channel (i.e. Hotel-Restaurant-Café/Catering) that includes also high-quality wine shops, restaurants, hotels and wine bars (Soressi, 2011). With regards to the wine sector, the HORECA channel is specialized in reaching consumers that like to meet at places where they can taste a wine or receive additional information about wines they want to buy (F.M.I., 2007, 2011) and often it involves journalists and critic's expert in the wine industry (Gaeta and Pomarici, 2001). The HORECA channel is an important communication vehicle for a wine with high quality characteristics (Pomarici, et al, 2012). The HORECA sector in Italy with regards to wines refers mainly to wine shops and wine bars that are also the new trendy places to drink wine outside. Today wine shops and wine bars are benchmarks for all wine lovers (Flamini, 2011), they offer a wide range of products to meet the needs of a modern wine consumer who looks for expert's advices about quality, origin (i.e. territory) combination with food and price (Mariani et al., 2011). Because of the above reasons wineries owners are aware that wine shops and wine bars within the HORECA channel are crucial to distribute high quality wines and to reach a *segment of consumers* more educated, well informed and aware of its own choices (Banks and Overton, 2010; Anderson and Nelgen, 2011). However, despite the increasing appeal of wine shops and wine bars for wine producers and consumers, the role that wine shops and wine bars play for disseminating information on quality wines has not been investigated so far through a structured approach. Looking forward this direction, wineries owners and wine producers may focus on wine shops and wine bars to enhance sales (Campbell and Guibert, 2007), especially in those cities where consumers may be more interested in educational aspects of wine and more sensitive to information about quality wines (e.g. cities located within regions or territories typically producing wines or global capitals and metros). A first step through this process of knowledge may be to assess the role that wine shop(s) and wine bar(s) plays in Italy for disseminating information on quality wines and to know if these retailers may influence consumer's taste and purchasing behavior. Secondly to assess wine shop(s) sales strategies and marketing tactics and to know potential homogeneous *profiles/segments*. Surveys can certainly be developed later to assess the role of wine shop(s) plays at a national level. According to the above premise the first hypothesis of this study ( $H_1$ ) is that wine shops are aware to play an important role as intermediaries and retailers providing information about quality wines and adding value in educating consumers on wine. The second hypothesis (contrary hypothesis:  $H_2$ ) is that wine shops do not have any influence on consumers or may have but they are not aware or interested about it. According to illustrious literature (Kotler and Keller, 2015) a *business segment* consists of a group of

players/businesses who share a similar set of characteristics (e.g. needs, management, target markets, objectives, etc.). It is possible to differentiate business segments in several ways when there are no natural segments. Clustered entities are discovered when natural business segments emerge from groups of companies with shared characteristics (i.e. homogeneous) (De Luca, 2002; Kotler and Keller, 2009). Following these assumptions the objectives of this study are: (1) to discover potential *natural segments* of wine shops/wine bars homogeneous by sales strategies; (2) to assess wine shop(s) role in disseminating information about quality wines (in a *small* markets). Findings may suggest specific marketing strategies for wineries that want to sell and promote quality wines (Rouzet and Seguin, 2004).

## MATERIAL AND METHODS

### *Study Design Reference Population and Samples Design*

In this study the reference Population was the *number* of wine shops and wine bars in a selected city. The choice of the city appeared very relevant for the object of the study, so it was selected basing on some variables often used in marketing studies (Kotler and Keller, 2015) that were: 1. Size (i.e. > 400,000 residents), 2. Density (i.e. urban) and 3. Geographic zone (i.e. Italian territory with high number of wineries and high quantities of wine produced). According to official internal statistics (ISTAT 2011), wineries located in the northwestern area of the island of Sicily (southern Italy) are the largest producers of the country (more than 50% of Italian wine production), for this reason the study was conducted in Palermo, which met all the requirements (i.e. more than 400,000 residents; urban density; north-west Sicily). The list of wine shops and wine bars was obtained by intersecting the directories provided by the Italian Association of Wine Shops and the Italian Tax Authority. We selected wine shops including the following categories: wine bars, lounge bars and wine restaurants. Given the small size of the obtained Population (N = 15) a Census survey was carried out, this eliminated inferential problems of *estimates* and *test of hypothesis* (Vianelli and Ingrassia, 2000). Table 1. shows a categorization of the organizational framework of selected wine shops.

For the interviews to wine shops owners and managers (i.e. respondents) we selected a list of *variables* (Table 2) following the methods applied for marketing studies and market segmentation (Kotler and Keller, 2015) and related to attitudes toward product choice, sales strategies and consumer target (Ismea, 2008 and 2011). Moreover, a sample of 30 Italian wineries was properly selected for this study. The sample of n = 30 wineries was selected by reasoned sampling (Cicchitelli et al., 1992) from the major 2014 Italian Wine Guides where wineries were ranked on the basis of production of quality



wines and prizes awarded: 1. Very high quality wines and from 1 to 3 prizes awarded; 2. High quality wines and from 1 to 2 prizes awarded; 3 medium quality wines and at least 1 prize awarded.

#### *Questionnaire*

For the interviews a specific questionnaire was created containing 30 statements for the variables selected and the list of wineries. Respondents were asked to rank the variables basing the ranking on the following marketing factors of the wine shop: (1) sales strategies, (2) marketing tactics and (3) target of consumers and then they were asked to rank the wineries basing on the same marketing factors. In this case wineries were considered as a variable. Rankings were on a scale from 1 (the best/first) to 30 (the worst/last).

#### *Clustering methodology*

A *Cluster Analysis* was carried out with the aim to discover natural segments (Corbetta, 1992; Fabbris, 1997) of wine shops similar (i.e. homogeneous) for *selling strategies*. The cluster analysis, according to Kaufman and Rousseeuw (1990), is the art of flush out groups of objects in a database. In science, the procedures of clusters represent a very diverse family of methods and techniques for the construction of relatively homogeneous groups within them and basically differentiated between them (Corbetta, 1999). Groups can be well formed if within them units share common traits, i.e. if they show a greater proximity with respect to the units belonging to other groups. Cluster analysis can be a useful tool to perform exploratory data analysis, to thicken multivariate objects within a simplified configuration of classes or types without losing too much information, it allows to reveal characteristics not directly measurable or evolutionary dynamics not known a priori, however at the same time it can be effectively used to confirm previous theoretical acquisitions. Even in marketing these techniques have wide popularity (Rencher, 2002). In this study, basing on demographic and geographic characteristics or buying and selling approaches it is possible to discover homogeneous segments of wine shops in respect of which wineries (wine producers) can plan sales strategies or marketing tactics actions. In clustering procedures there is not distinction between dependent and independent variables, all variables have the same status of *independent variables*. Cluster analysis compress a series of records within multivariate classes, which are unknown a priori, that reduce the complexity of the original information, however, safeguarding the substantial and systematic components (Gordon, 1999). The researcher must choose the appropriate (1) *indicators*, (2) *rules for measuring distance or similarity* between objects, (3) *procedure for grouping* statistical units and (4) *give a sense* to the groups obtained. The choice of different variables and different classification algorithms leads to intercept different cluster configurations from which evaluation of practical utility may be done only ex-post (Everitt and Dunn

2001). As the number of variables increases the information content of the analysis increases as well. The procedures of cluster analysis can be divided into two broad general categories: (1) *hierarchical methods* and (2) methods of *repeated partition*. The *hierarchical methods* realize mergers (or divisions) of units in larger groups (or smaller group) hierarchically nested according to a classification rule or an objective function. The *repeated partition methods* divide observations in a number of non-overlapping groups and not hierarchically ranked. The hierarchical methods show high complexity of calculation (Kaufman and Rousseeuw, 1990), nevertheless for this study *Hierarchical Cluster Analysis (HCA)* appeared the most appropriate (Muller and Hamm, 2014). With *aggregative/agglomerative* procedures every object is a group in its own. At the second step the most neighbors two groups are merged into a single group. For this study we used the *aggregative procedure* because we wanted to start from a situation in which each wine shop is a cluster in itself and, step-by-step, the procedure operates subsequent fusions until the achievement of a single group including all wine shops. The sequences of fusions generated by agglomerative algorithms are displayed on a tree diagram namely the *dendrogram* and that is configured as a system of Cartesian axes with the ordinate the objects to be classified and in the degree of distance/proximity between the groups. Under the procedures of hierarchical clustering partitions are obtained by deciding a certain level of heterogeneity over which groups should be treated as entities not joinable (Everitt, 1993; Yi, et al., 2015). Agglomerative techniques result in different groupings depending on criteria used to measure the distance or similarity between two clusters, each of which may contain one or more objects (Everitt and Dunn 1999). Among the agglomerative methods known in literature, we chose the *average linkage* because it does not generate distortions of the space of distances between objects (Wajrock, et al., 2008). With this method the distance between the two groups (A and B) is obtained by averaging the distances between all pairs of objects of which the first belongs to the first group (A) and the second to the second group (B). Furthermore this method is particularly robust against outliers (Rencher 2002). The method of *average linkage* is a good compromise between the method of *single linkage* and that of the *complete linkage*, Kaufman and Rousseeuw (1990) consider the *average linkage* procedure as a robust and reliable method in most research situations. In our study normalization was not necessary because the variables have *only one ordinal scale of measure*: ranks from rank 1 (first place, the best) to rank 30 (last place, the worst). Ranks are preferred to scores because they allow comparison among datasets and are independent from subjective interpretation of scores (Wajrock, et al., 2008). The *Cluster Analysis* starts from a matrix ( $n \times p$ ) containing  $n$  objects measured on  $p$  variables, in our study the matrix was (15 x 60) with 15 wine shops and 60 rankings (of statements and wineries). In our study, i.e. metrics ordinal variables, we calculated indexes of distance. The distance between the points that describe the coordinates of a pair of objects can be computed using the *Euclidean Distance* that is sensitive to the scale of measurement of the

variables. From a methodological viewpoint the chosen criteria result more appropriated to well-represent the phenomenon object of this study, with respect to discover links (i.e. similar characteristics) among each wine shop and the others. Exploratory cluster analysis was performed via the statistical program SPSS 19 with the data set of ranks given by respondents to the 30 wineries.

## RESULTS AND DISCUSSION

Explanatory Hierarchical Cluster Analysis (HCA) was undertaken without standardization with Euclidean distance method and it involved a measurement of the similarity between 15 wine shops; groups with the maximum similarities were clustered preferentially. The *dendrogram* (Fig. 1) shows the hierarchy of cluster generation and agglomeration coefficients are shown in Table 4. Each cluster corresponds to one or more wine shops. Basing on clustering procedure and on analysis of respondents' answers to the 30 statements it was possible to discover 3 main Clusters or *Profiles* (i.e. segments) of wine shops (identified with fancy names): Cluster 1 - Quality Oriented; Cluster 2 - Consumer Oriented; Cluster 3 - Price Oriented. The 3-cluster solution is described in Table 3, followed by a description of the clusters' characteristics.

### Cluster 1 - Quality Oriented profile

Wine shops in Cluster 1 focused on quality wines. They attach particular importance to origin of wines and wineries' characteristics. They appreciate innovative and traditional wineries with high standards of quality along the entire production process and also in later stages, that is packaging, attention to label's design, wines positioning on the market and care for environment and health of consumers. Wines preferred by this profile of wine shops are Regional, Italian and International wines of different types (i.e. red, white, sparkling and dessert wines). Managers and owners of these wine shops are open-minded about novelties, organic wines and specialties. They play a fundamental role in dissemination of information about quality wines and education of consumers about characteristics of wines and wineries. These wine shops applies *face-to-face communication strategies* and are particularly enthusiastic about promotion of high quality wines by organizing special events for 'wine lovers' like *wine tasting* or cultural events promoted by wineries. These wine shops do not care about quantities but high profit margins are achieved selling high quality wines at medium/high prices to a small segment of educated or well-informed consumers. This cluster includes six wine shops (P1-T8-N3-L15-K10-D13) and it is the largest of the three.

### Cluster 2 - Consumer Oriented profile

Wine shops in Cluster 2 sell standard wines. The quality of a wine is important to them, but they prefer to sell the types of wines requested by a consumer with scarce knowledge about wines, which plays a central role in the market. They do not care about quality brands of wines, they prefer to offer wines with good quality/price ratio for the consumer the most commercialized varieties and types (red and white wines) and they are often receptive to new products. This segment of wine shops cares about quantities, profit margins are achieved selling high quantities of wines at medium/low prices in order to satisfy a large number of consumers. These wine shops do not make use of *face-to-face communication strategies* or promotion activities. This cluster includes three wine shops (V4-E7-R14) and it joins the *Cluster 1 - Quality Oriented* profile at the fourth level of fusion of clusters, in particular with the wine shop named P1 with which there is the greatest similarity.

#### Cluster 3 - Price Oriented profile

Wine shops in Cluster 3 do not care about quality wines. Their sales strategies focus on low prices. They do not care about wine origin or wine brands but they select the wineries and wines basing on strategies of large profit margins at low prices. Their target of consumers is not educated about wine or informed about types and intrinsic characteristics but looks for low quality wines. These wine shops sell also local bulk/unbolted wine of different types (i.e. red, white, rose and sweet wine). Wine shops LaB6, F9 and C5 link other clusters at a high stage of agglomeration (with P1 wine shop of Cluster 1) that is considered too dissimilar to be considered as a cluster or a *segment/profile*.

## CONCLUSION

The study demonstrated that wine shops and wine bars, within the HORECA channel, play an important role in delivering education and information about quality wines, so the first hypothesis was confirmed. Moreover, Cluster Analysis discovered *natural segments of wine shops homogeneous for sales strategies*, in fact the 15 wine shops of this census survey in the city of Palermo were clearly clustered in three main groups. The majority of wine shops belong to the Quality-Oriented profile which is the more prone to organize wine events that include educational aspects and to encourage newer wine drinkers to learn more about quality wine. These functions add further value to quality wines. This study not only provides scientific information for consumers to distinguish different wine shops in their market of reference, but also may be useful for wineries that want to know the role of wine shops in the HORECA Channel as intermediaries of quality wines in different cities or geographic zones. Therefore these results may be interesting if compared with those of other relevant cities. Future research may discover different wine shops segmentations in other cities and compare results.

Multidimensional Scaling may be applied in future research to represent discovered Profiles in the Cartesian plane and see graphically proximities among objects.

## TABLES AND FIGURES

Types of wine shops	Activity description	Experts of wine	Products	Additional functions or services
<i>Wine shops</i>	1. Wine tasting; 2. Wine sale.	NONE (Only the host)	1. Bulk wine; 2. Bottles of wine.	NONE (Only sales)
<i>Wine shops and wine bars (wine offered also with food)</i>	1. Wine tasting; 2. Wine sale; 3. Wine sale with gourmet products.	YES 1. Sommelier.	1. Bottles of wine; 2. Glasses of wine.	YES 1. Information about wines.
<i>Wine shops and wine restaurants</i>	1. Wine sale with gourmet products; 2. Wine sale with food (dinner or lunch).	YES 1. Sommelier; 2. Wine master.	1. Bottles of wine; 2. Glasses of wine; 3. Wine and food.	YES 1. Information about wines; 2. Wine events with educational aspects.

Table 1. Organizational framework of wine shops

Variable type	Variables	Variable description
Demographic variables	<i>Industry:</i> types of wineries selected  <i>Company size:</i> size of wineries selected and size of wine shops  <i>Income:</i> wineries selected and size of wine shops  <i>Location:</i> geographical area of wine selected	1. Traditional 2. Innovative  3. Small 4. Medium 5. Large  6. Small 7. Medium 8. Large  9. Regional 10. Domestic 11. Foreign countries
Purchasing Approaches	<i>Nature of existing relationship:</i> Strong relationships established, Desirable companies	12. Consolidated clients 13. Open to new relationship

Selling Approaches	<p><i>General purchase strategies:</i> Furniture contracts</p> <p><i>Purchasing criteria:</i> Price from wineries, type of wine, quality criteria (e.g. certifications)</p> <p><i>Selling criteria:</i> general sales strategies; Communication strategy</p>	<p>14. Consolidated wine sales representatives</p> <p>15. New wine sales representatives</p> <p>16. Small price (&lt;10€)</p> <p>17. Medium price (10-25€)</p> <p>18. High price (&gt;25€)</p> <p>19. Bulk wine</p> <p>20. Bottled wine</p> <p>21. White wine</p> <p>22. Red wine</p> <p>23. Rose wine</p> <p>24. Sparkling wine</p> <p>25. Sweet wine</p> <p>26. CDO</p> <p>27. CPDO</p> <p>28. GIT</p> <p>29. BIO</p> <p>30. Other certification</p> <p>31. High margins</p> <p>32. Low prices</p> <p>33. Personal communication channel</p> <p>34. Dissemination of information</p> <p>35. Promotion</p> <p>36. Events and experiences</p>
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Table 2. Segmentation Variables and Indicators

Profile/Cluster Name	Demographic characteristics	Purchasing Approaches	Selling Approaches
Cluster 1 - Quality Oriented	<ul style="list-style-type: none"> <li>- Traditional and innovative industry;</li> <li>- Select small, medium and large wineries;</li> <li>- Medium and large income;</li> <li>- Regional, domestic and foreign countries wineries selection.</li> </ul>	<ul style="list-style-type: none"> <li>- Relationship with consolidated and new clients;</li> <li>- Furniture of consolidated and new wines;</li> <li>- Medium and high price of wine purchased;</li> <li>- Only bulk wine;</li> <li>- Only some types of wine;</li> <li>- All certifications.</li> </ul>	<ul style="list-style-type: none"> <li>- High margins strategies;</li> <li>- Face-to-face communication strategies: promotion, events, dissemination of information, etc.;</li> <li>- Mainly consolidated clients.</li> </ul>

Cluster 2 - Consumer Oriented	- Traditional and innovative industry; - Select medium and large wineries; - Small and medium income; - Regional and domestic wineries selection.	- Relationship with consolidated and new clients; - Furniture of consolidated and new wines; - Small and medium price of wine purchased; - Only bottled wine; - All types of wine; - GIT certification, some higher certification.	- High margins strategies; - Low prices; - Limited promotion activities; - Mainly not consolidated clients.
Cluster 3 - Price Oriented	- Traditional and innovative industry; - Select medium and large wineries; - Medium and large income; - Regional and domestic wineries selection.	- Relationship with consolidated clients; - Furniture of consolidated wines; - Low price of wine purchased; - Bulk and bottled wine; - All type of wine; - Some GIT certification.	- High margins strategies; - Low prices; - Mainly consolidated clients.

Table 3. Profile characteristics

Stages of cluster fusion	Units of clusters		Agglomeration Coefficients	Cluster generation stages		Next Stages of cluster fusion
	Cluster 1	Cluster 2		Cluster 2	Cluster 1	
1	4	7	112.000	0	0	2
2	4	14	130.000	1	0	4
3	1	8	506.000	0	0	4
4	1	4	595.333	3	2	6
5	10	13	614.000	0	0	8
6	1	3	683.400	4	0	7
7	1	15	879.167	6	0	8
8	1	10	1,036.571	7	5	11
9	11	12	1,454.000	0	0	10
10	2	11	1,673.000	0	9	11
11	1	2	2,012.444	8	10	12
12	1	6	2,326.000	11	0	13
13	1	9	4,394.308	12	0	14
14	1	5	5,054.571	13	0	0

Table 4 – Agglomeration Programme

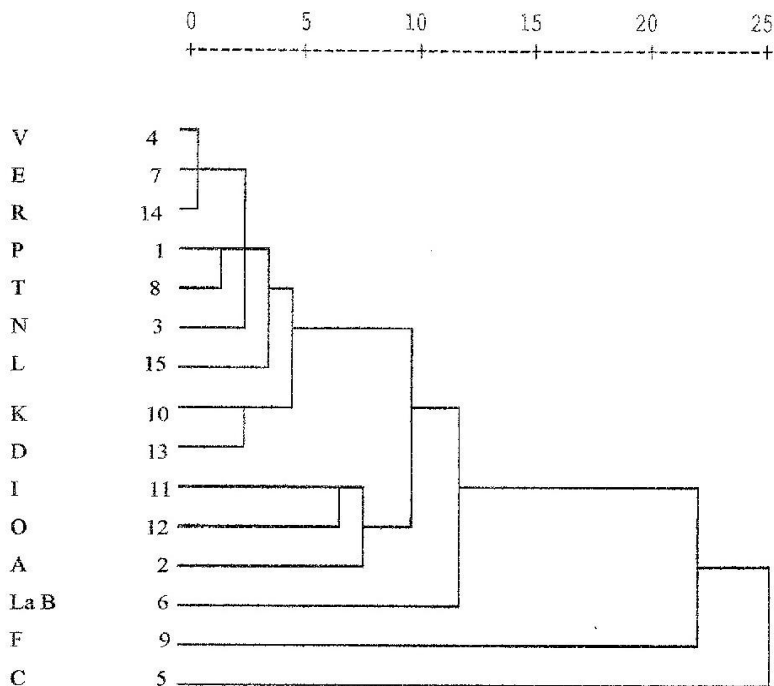


Figure 3. Dendrogram. (Method: Average Linkage Between Groups)

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