

**The Board of the  
HELLENIC ASSOCIATION OF REGIONAL  
SCIENTISTS H.A.R.S. - 2022**

[H.A.R.S. is a Think Tank of groups of people with multidisciplinary work in the fields of Regional Science, which occurs with the selfless contribution of participants who offer their work to the global scientific community]

**President and Chair,  
Journals Management Committee  
(RSI)**

Professor Christos Ap. Ladias

**Legal Committee**

Georgios-Stavros Kourtis, President of the Bod of the Panteion University, Honorary President of the Court of Audit, Professor Sophia Adam, Assistant Professor Panagiotis Kribas, Dr Angelika Kallia, Dr Evaggelos Mallios, Fotios Makris, Ioannis Kourtis, Sophia Kouti

**Advisors**

Professor Georgios Korres, Dr Apostolos Parpairis, Dr Nikolaos Chasanagas, Dr Sotirios Milionis, Esaia Papaioannou, Dimitrios Kouzas, Dr Athina Bayba-Wallace, Antigoni Prapa, Olga Mporonilo, Sophia Aftousmi, Andreas Papaderos, Nikiforos Chatzigakis, Gerasimos Gavranidis, Giota Theiakou

**Chief Executive**

Vilelmini Psarrianou

**Conference Co-ordinator**

Dr Stylianos Alexiadis

**International Relations Coordinators**

Dr Dr Aikaterini Kokkinou, Antonia Obaidou

Assistant Professor Dimitrios Tsiotas

**Students Observer**

Eleonora Stavrakaki, Irene Nomikou, Christina Triantafyllou, Loukia Delivelioti, Georgios Roussaris, Irene Tzola

**Website Administrators**

Dimitrios Kouzas, Vilelmini Psarrianou, Apostolos Ladias

**Secretariat**

Dr Chrisa Balomenou, Chrisoula Kouza, Victor Atoun, Iosif Atoun, Maria Rigaki, Konstantina Mantzavinou, Konstantina Georgiou, Nikolaos Alampanos, Elektra Katsiantoni, Dora Kyriazopoulou, Anna Maria Giallousi De Boorder, Eleni Koursari, Eleni Hinopoulou, Aggeliki Koursari, Elena Stournara, Dimitrios Ladias, Maria Oikonomou, Socratis Chitas, Maria Karagianni, Nikolaos Motsios, Apostolos Tsapalas, Victoria Frizi, Leonardos Tsaousis, Apostolos Ladias, Vasiliki Petrou, Nikoleta Yiesil, Kyriakos Katsaros, Filippos Rountzos, Katerina Kotsiopoulos, Nilos Kotsiopoulos, Dimitra Tsetsoni, Maria Kousantaki, Chaim Kapetas, Aggela Trikali, Eleni Zioga, Sophia Trikali, Irini Nomikou, Despina Faridi, Anastasia Pnevmatikou, Maria Rammou, Athanasia Kanari, Jetmira Amalia Jancaj, Loukia Delivelioti, Daniela Gaga, Maria Avgenaki, Evanthia Michalaki, Christina Triantafyllou, Sofia Aftousmi, Foteini Strati, Sofia Kouti, Olga Boronilo, Androniki Psefoudi, Antigoni Prapa, Anastasia Christopoulou, Irene Stathopoulou

**The Editorial Board  
of the Regional Science Inquiry - 2022**

**Editor-in-Chief**

PROFESSOR CHRISTOS AP. LADIAS  
Regional Science Inquiry

**Editors-Authors**

PROFESSOR THEODORE PELAGIDIS  
Department of Maritime Studies  
University of Piraeus, Piraeus, Greece

PROFESSOR PANAGIOTIS LIARGOVAS  
Department of Economics  
University of Peloponnese, Tripolis, Greece

PROFESSOR GEORGE KARRAS  
Department of Economics  
University of Illinois, Chicago, USA

RECTOR-PROFESSOR PARIS TSARTAS  
Department of Business Administration  
University of the Aegean, Mitilene, Greece

RECTOR-PROFESSOR NIKOLAOS GEORGOPOULOS  
Department of Business Administration  
University of Piraeus, Piraeus, Greece

PROFESSOR KIRAN PRASAD  
Professor and Head, Dept. of Communication  
and Journalism, Sri Padmavati Mahila University,  
Tirupati – 517 502., A.P., India

PROFESSOR JOSE ANTONIO PORFIRIO  
Departamento de Ciencias Sociais de Gestao  
Universidade Aberta, Lisboa, Portugal

PROFESSOR PAOLO MALANIMA  
Department of Economic History and Economics  
Magna Graecia University in Catanzaro, Catanzaro, Italy

PROFESSOR RADOVAN STOJANOVIC  
Faculty of Electrical Engineering  
University of Montenegro, Podgorica, Montenegro

PROFESSOR RUDIGER HAMM  
Department of Business Administration  
and Economics Niederrhein, University of Applied  
Sciences, Krefeld, Germany

PROFESSOR SERAFEIM POLYZOS  
Department of Planning and Regional Development,  
School of Engineering, University of Thessaly, Volos  
Greece

ASSOCIATE PROFESSOR DANIEL FELSENSTEIN  
Department of Geography,  
Hebrew University of Jerusalem, Jerusalem, Israel

PROFESSOR GEORGE KORRES  
Department of Geography  
University of the Aegean, Mitilene, Greece

PROFESSOR MINAS AGGELIDIS  
Department of Architecture, National Technical  
University of Athens, Athens, Greece

PROFESSOR JOSE VARGAS HERNANDEZ  
Departament de Mercadotecnia y Negocios  
Internacionales, Universidad de Guadalajara,  
Guadalajara, Jalisco, Mexico

PROFESSOR ELIAS CARAYANNIS  
Department Information Systems & Technology  
Management, School of Business, The George  
Washington University, Washington, USA

Dr NGUYEN CAO Y  
Head Of Department, Transport Economic Faculty,  
University Of Transport And Communications  
Hanoi Vietnam

PROFESSOR MOH'D AHMAD AL-NIMR  
Mechanical Engineering Department  
Jordan University of Science and Technology,  
Irbid – Jordan

Dr CHARALAMBOS LOUCA  
Head of Business Department, Director of Research  
Department, Editor of The Cyprus Journal of Sciences,  
American College, Nicosia, Cyprus

PROFESSOR VASILIOS KOUGEAS  
Department of Public Administration,  
Panteion University, Athens, Greece

PROFESSOR PANTELIS SKAYANNIS  
Department of Planning and Regional Development  
University of Thessaly, Volos, Greece

ASSOCIATE PROFESSOR MARIA MICHALIDIS  
Department Management and MIS,  
School of Business, University of Nicosia  
Nicosia, Cyprus

EMERITUS PROFESSOR DIMITRIOS DIONISIOU  
Department of Senior Mathematics  
Hellenic Air Force Academy, Dekelia, Greece

PROFESSOR YUZARU MIYATA  
Department of Architecture and Civil Engineering  
Toyohashi University of Technology, Toyohashi, Japan

PROFESSOR DANIELA L. CONSTANTIN  
Director of the Research Centre for Macroeconomic  
and Regional Forecasting (PROMAR), Bucharest  
University of Economic Studies, Bucharest, Romania

PROFESSOR NIKOLAOS KYRIAZIS  
Department of Economic Sciences  
University of Thessaly, Volos, Greece

PROFESSOR VIRON KOTZAMANIS  
Department of Sociology University of Thessaly,  
Volos, Greece

PROFESSOR MIRA VUKCEVIC  
Faculty of Metallurgy and Chemical Technology  
University of Montenegro, Podgorica, Montenegro

PROFESSOR FATMIR MEMAJ  
Faculty of Economics University of Tirana,  
Tirana, Albania

PROFESSOR DIMITRIOS SKIADAS  
Department of International and European Studies  
University of Macedonia, Thessaloniki, Greece

Dr. ANNE MARGARIAN  
Institute of Rural Studies, Federal Research Institute  
for Rural Areas, Forestry and Fisheries,  
Braunschweig, Germany

PROFESSOR FRANCISCO DINIZ  
University Trás-os-Montes e Alto Douro  
(UTAD), Portugal

ASSOCIATE PROFESSOR OLGA GIOTI-PAPADAKI  
School of Sciences of Economy and Public  
Administration, Panteion University of Social and  
Political Sciences Athens, Greece

ASSISTANT PROFESSOR LAMBROS BABALIOUTAS  
Department of Public Administration,  
Panteion University, Athens, Greece

ASSOCIATE PROFESSOR DARCIN AKIN  
Department of City and Regional Planning  
Gebze Institute of Technology, Gebze, Turkey

ASSOCIATE PROFESSOR JAN SUCHACEK  
Department of Regional and Environmental Economics  
Technical University of Ostrava, Ostrava,  
Czech Republic

PROFESSOR MIHAIL XLETOS  
Department of Economic Sciences  
University of Ioannina, Ioannina, Greece

ASSISTANT PROFESSOR ANASTASIA STRATIGEA  
Department of Geography and Regional Planning  
National Technical University of Athens, Athens Greece

ASSISTANT PROFESSOR VASILIOS AVDIKOS  
Department of Economic and Regional Development,  
Panteion University, Athens, Greece

ASSOCIATE PROFESSOR HELEN THEODOROPOULOU  
Department of Home Economics Ecology,  
Harokopion University, Kallithea, Greece

EMERITUS PROFESSOR KONSTANTINOS TSAMADIAS  
Department of Home Economics Ecology,  
Harokopion University, Kallithea, Greece

PROFESSOR PANTELIS SKLIAS  
Faculty of Social Sciences  
University of Peloponnese, Korinthos, Greece

ASSISTANT PROFESSOR MARIUSZ SOKOLOWICZ  
Department of Regional Economics and Environment  
University of Lodz, Lodz, Poland

ASSISTANT PROFESSOR JOAO MARQUES  
Department of Social and Political Sciences  
University of Aveiro, Aveiro, Portugal

ASSOCIATE PROFESSOR GEORGIOS SIDIROPOULOS  
Department of Geography University of the Aegean,  
Mitolini, Greece

ASSOCIATE PROFESSOR ELENI PAPADOPOULOU  
School of Urban-Regional Planning &  
Development Engineering, Aristotle University  
of Thessaloniki, Thessaloniki, Greece

PROFESSOR VASILIKI ARTINOPOULOU  
Department of Sociology, Panteion University  
of Social and Political Sciences, Athens

ASSISTANT PROFESSOR GEORGIOS XANTHOS  
Department of Sciences, Technological  
Educational Institute of Crete, Heraklion, Greece

ASSOCIATE PROFESSOR EMMANUEL CHRISTOFAKIS  
Department of Business Administration  
University of the Aegean, Chios, Greece

ASSISTANT PROFESSOR FILIPOS RUXHO  
Department of Business and Management,  
Universum College, Prishtina, Kosovo

Dr STILIANOS ALEXIADIS  
RSI Journal

LECTURER MAARUF ALI  
Department of Computer Science & Electronic  
Engineering Oxford Brookes University,  
Oxford, United Kingdom

ASSOCIATE PROFESSOR LABROS SDROLIAS  
Department of Business Administration, School of  
Business Administration and Economics, Technological  
Education Institute of Thessaly, Larissa, Greece

ASSOCIATE PROFESSOR Dr. NETA ARSENI POLO  
Department of Economics  
University "Eqrem Cabej", Gjirokastr, Albania

LECTURER ALEXANDROS MANDHLA  
RAS Department of Economics, University  
Of Surrey, United Kingdom

ASSISTANT PROFESSOR GEORGE P. MALINDRETOS  
Harokopion University, Kallithea, Greece

RESEARCH FELLOW PARK JONG - SOON  
Development Institute of Local Government  
of South Korea, Jangan-gu, Suwon City, South Korea

RESEARCHER, Dr. Dr. AIKATERINI KOKKINO  
Department of Geography University the Aegean,  
Mitolini, Greece

PROFESSOR ANDREW FIELDSEND  
Studies in Agricultural Economics, Budapest, Hungary

Dr MICHAEL ALDERSON  
Director Project Development  
University of Szent Istvan, Budapest, Hungary

Dr PEDRO RAMOS  
Faculdade de Economia, Universidade  
de Coimbra, Coimbra, Portugal

Dr NIKOLAOS HASANAGAS  
Faculty of Forestry and Natural Environment, Aristotle University  
of Thessaloniki, Thessaloniki, Greece

Dr DIMITRIOS TSIOTAS  
Department of Planning and Regional Development, University of  
Thessaly, Pedion Areos, Volos, Greece

ASSOCIATE PROFESSOR PANAGIOTIS STAIKOURAS  
Department of Business Administration  
University of Piraeus, Piraeus, Greece

Dr CRISTINA LINCARU  
National Scientific Research Institut for Labor and Social  
Protection, Bucharest, Romania

ASSOCIATE PROFESSOR HIROYUKI SHIBUSAWA  
Department of Architecture and Civil Engineering  
Toyohashi University of Technology, Toyohashi, Japan

ASSISTANT PROFESSOR CHRISTOS STAIKOURAS  
Department of Accounting and Finance, Athens  
University of Economics and Business, Athens, Greece

ASSISTANT PROFESSOR ZACHAROULA ANDREOPOULOU  
Faculty of Forestry and Natural Environment, Aristotle  
University of Thessaloniki, Thessaloniki, Greece

ASSISTANT PROFESSOR ALEXANDROS APOSTOLAKIS  
Department of Sciences, Technological  
Educational Institute of Crete, Heraklion, Greece

Dr PRODROMOS PRODROMIDIS  
Centre for Planning and Economic Research and Athens  
University of Economics and Business KEPE,  
Athens, Greece

ASSOCIATE PROFESSOR GEORGE VOSKOPOULOS  
University of Macedonia  
Thessaloniki, Greece

LECTURER VENI ARAKELIAN  
Department of Economic and Regional  
Development, Panteion University of Social  
and Political Sciences, Athens, Greece

ASSOCIATE PROFESSOR VASSILIS KEFIS  
Department of Public Administration  
Panteion University, Athens, Greece

PROFESSOR GEORGIOS DOUNIAS  
University of the Aegean, School of Business,  
Department of Financial & Management Engineering,  
Chios

ASSOCIATE PROFESSOR ELIAS PLASKOVITIS  
Department of Economic and Regional Development,  
Panteion University, Athens, Greece

PROFESSOR GARYFALLOS ARAMPATZIS  
Department of Forestry and Management of the  
Environment and Natural Resources  
Democritus University of Thrace  
Orestiada, Greece

PROFESSOR KONSTANTINOS SOUTSAS  
Department of Forestry and Management of the  
Environment and Natural Resources  
Democritus University of Thrace  
Orestiada, Greece

PROFESSOR EFSTATHIOS TSACHALIDIS  
Department of Forestry and Management of the  
Environment and Natural Resources  
Democritus University of Thrace  
Orestiada, Greece

Dr. AMITRAJEET A. BATABYAL  
Department of Economics, Rochester Institute of  
Technology, NY 14623-5604, USA.

Dr. HAMID BELADI  
Department of Economics, University of Texas at San  
Antonio, San Antonio, USA

Dr. YANSUIY LIU  
College of Resources Science and Technology,  
Beijing Normal University, Beijing, China

STAVROS RODOKANAKIS  
Department of Social and Policy Sciences  
University of Bath Clarendon Down,  
Bath, United Kingdom

PROFESSOR GEORGE TSOBANOGLOU  
Department of Sociology  
University of the Aegean, Mitilini, Greece

PROFESSOR ALBERT QARRI  
Vlora University, Vlora, Albania

RESEARCHER Dr CARMEN BIZZARRI  
Department of Human science  
European University of Rome, Rome, Italy

PROFESSOR GEORGE POLICHRONOPOULOS  
School of Business Administration and  
Economics, Technological Educational Institute  
of Athens, Athens, Greece

Dr MICHEL DUQUESNOY  
Universidad de los Lagos, CEDER  
Universidad Autónoma del Estado de Hidalgo,  
ICSHu-AAHA, Chile

LECTURER ASPASIA EFTHIMIADOU  
Master Program of Environmental Studies  
Open University of Cyprus, Nicosia, Cyprus

ASSISTANT PROFESSOR ELECTRA PITOSKA  
Technological Institute of Florina, Florina, Greece

PROFESSOR EVIS KUSHI  
Faculty of Economy, University of Elbasan,  
Elbasan, Albania

LECTURER MANTHOS DELIS  
Faculty of Finance. City University London  
London, United Kingdom

ASSISTANT PROFESSOR ELENI GAKI  
Department of Business Administration  
University of the Aegean, Chios, Greece

ASSISTANT PROFESSOR AMALIA KOTSAKI  
Department of Architectural Engineering  
Technical University of Crete, Chania, Greece

PROFESSOR STELLA KYVELOU—CHIOTINI  
School of Sciences of Economy and Public  
Administration, Department of Economic and Regional  
Development, Panteion University, Athens, Greece

LECTURER ROSA AISA  
Department of Economic Analysis  
University of Zaragoza, Zaragoza, Spain

Dr GEORGIOS-ALEXANDROS SGOUROS  
National and Kapodistrian University of Athens,  
Athens, Greece

Dr BULENT ACMA  
Department of Economics, Anadolu University,  
Unit of Southeastern Anatolia, Eskisehir, Turkey

PROFESSOR DRITA KRUIJA  
Faculty of Economics  
Shkodra University, Shkodra, Albania

Dr LAMARA HADJOU  
University of Tizi Ouzou,  
Tizi Ouzou, Algeria

Dr ADRIANUS AMHEKA  
State Polytechnic of Kupang,  
Penfui, Kupang, Indonesia

Dr KHACHATRYAN NUNE  
Head of the scientific research unit  
University of Hohenheim, Stuttgart, Germany

Dr ANDREW FIELDSEND  
Research Institut of Agriculture Economics,  
Budapest, Hungary

Dr FUNDA YIRMIBESOGLU  
Istanbul Technical University, Faculty of Architecture  
Office Istanbul, Istanbul, Turkey

PROFESSOR MAHAMMAD REZA POURMOHAMMADI  
Department of Geography,  
University of Tabriz, Iran

### Critical Surveys Editors

Lecturer Aspasia Efthimiadou, Dr Sotirios Milonias,  
Dr Georgios-Alexandros Sgouros, Dr Stavros  
Ntegiannakis, Dr Anastasia Biska, Dr Christos  
Genitsaropoulos, Dr Loukas Tzachilas, Maria Goula

**Book Review Editors**

Dr Dr Katerina Kokkinou, Dr Stilianos Alexiadis,  
Dr Elias Grammatikogiannis, Dr Maria Mavragani,  
Dimitrios Kouzas, Vilemini Psarriano, Antonia  
Obaintou, Helga Stefansson, Dr Nikolaos Hasanagas,  
Maria karagianni

**Copy Editors**

Professor Georgios Korres, Assistant Professor  
Panagiotis Krimpas, Dr Stylianos Alexiadis, Dimitrios  
Kouzas, Antonia Obaintou, Dr Thomas Georgiadis  
Researcher, Panteion University.

**Publisher-Manager**

Dr Christos Ap. Ladias

