



Cities and territories in the developing world facing the challenges of ecological and digital transitions

A South-North perspective

28-29 April 2023

Blue Marine Hotel Hammamet (ex Laico)
Yasmine Hammamet, Tunisia

Conference book

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<http://conferencetunisia.weebly.com/>

Foreword

President of the University of Sfax



Dear Colleagues and Friends, Welcome @ the University of Sfax.

It is with great joy that we welcome this scientific congress. The congratulations of the Directorate of the University are addressed to all the guests and participants of this great event. The warmest thanks go to our colleagues of the organising committee and the scientific committee and in particular to Mr. Dean Younes Boujelben as well as to Professors Foued Gabsi, Salma Mhamed Hichri and Karim Kammoun. We would also like to thank the President of the RSAI and the whole scientific and institutional community that participates in this great scientific event.

Cities, transition, intelligence and sustainability, this is a unifying and multidisciplinary theme that has always stimulated exchanges and discussions. To establish the culture of the intelligent city, we must establish the culture of intelligence through intelligent citizens and a creative academic spirit.

I wish you a good conference and much success!

Abdelwahed Mokni

President of the University of Sfax

Foreword

President of the Regional Science Association International (RSAI)



Dear Colleagues and Friends,

It is a great honor and great pleasure for me to welcome you all to this very first conference of the Regional Science Association International in Tunisia! I am overwhelmed by the large number of participants, mainly from the Mediterranean world, who are participating – onsite or online. This, if anything, is a strong indication on the need for a science that can analyze both economic development, the impact of actors, agents and policy, and give relevant advice for policy and planning – in short: Regional Science.

The modern Regional Science was born in the US, but its cradle stood in Europe. It is spreading in Asia and South America and in 2020 the first large Regional Science event in Africa, the world congress, was held in Morocco. The only problem was that there came a pandemic – but the congress was held online and it was a real success. Now the pandemic is over and we can continue the Regional Science activities in Africa.

Organizing a congress of this size is not an easy job, particularly not if it is a hybrid arrangement like this. I am very impressed by the fantastic work that the organizer, Professor Salma Mhamed Hichri and her team, have done to make the conference possible. I am convinced of that the conference will be a great success, with interesting presentations, engaged discussions and a wonderful spirit!

Hans Westlund

President of the Regional Science Association International (RSAI)

Foreword

Welcome to Tunisia

Dear friends and colleagues, welcome to Tunisia, the land of skills, history and the gate to Africa.

The University of Sfax and the Faculty of Economics and Management of Sfax are pleased to welcome you to the first RSAI-Tunisia conference in the beautiful city of Hammamet. We thank the President of the RSAI, Professor Hans Westlund, the Executive Director, Professor Andrea Caragliu, and the former President, Professor Eudardo Haddad, with whom we have organised this conference. The aim is to bring together the scientific community interested in regional science in the developing world, in search of new approaches and models for a successful digital and ecological transition.



We would like to thank the President of the University of Sfax, Professor Abdelwahed Mokni, the Dean of the FSEGS, Professor Youness Boujelbane, the local organizing committee, the scientific committee and all the authors and chairs participating in this conference. We also thank all the representatives of the national and international organisations, as well as all the sections of the RSAI who supported us, in particular the French, Romanian, Greek, Italian, Moroccan sections...

The theme of the conference "*Cities and territories of the developing world facing the challenges of ecological and digital transitions: A South-North perspective*" attracted a wide variety of papers in spatial, regional and urban economics. We expect more than 150 participants from 10 different countries at this conference. We have planned a Presidential address, 4 keynote speeches, 17 parallel sessions, 4 online sessions, a roundtable and a panel.

For the plenary sessions, we kindly invite you to listen to our colleagues, Professor Hans Westlund with a Presidential address on "*Urban-rural relations in the post-urban world*", Professor Yannis Psycharis with a plenary lecture on "*Income inequalities in cities and metropolitan areas in times of sequential crises and uncertainty: evidence from Athens*". We will also have the pleasure of listening to Professor Eduardo Haddad on "*The Economics of urban mobility*", Professor Andrea Caragliu on "*The economics of smart city policies*", and Professor Sami Awadi on "*Towards an alternative model of inclusive regional development*". An introduction to the conference entitled "*On the sustainability of smart cities and related data-driven innovation*" will be presented by Professor Salma Mhamed Hichri.

On behalf of the Local Organizing Committee, we wish you fruitful debates, rich collaborations, but also friendships. We also wish you success in the presentation of your scientific papers and a wonderful stay in Tunisia!

Salma Mhamed Hichri

Coordinator of the conference

LOCAL ORGANIZING COMMITTEE

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Karim Kammoun, ISGI-University of Sfax
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Hans Westlund – KTH Royal Institute of Technology, Sweden
Hassen Boubakri, University of Sousse & University of Sfax, Tunisia
João Carlos Correia Leitão, University Beira Interior, President of APDR, Portugal

LIAISON COMMITTEE

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Andrea Caragliu, Executive director of the RSAI
Eduardo Haddad, Immediate Past President of the RSAI
Salma Mhamed Hichri, Coordinator of the RSAI-Tunisia conference

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Thierry Feuillet, UMR IDEES, Université de Caen Normandie, France
Vinko Mustra, University of Split, President of Croatian Section, Croatia
Yannis Psycharis, Panteion University, President of the Greek Section, Greece
Younes Boujelben, FSEG-University of Sfax, Tunisia
Zouheir Abida, FSEG-University of Sfax, Tunisia

Thursday, April 27

14:00-18:00 Registration desk working hours

19:00-21:00 **Welcome reception - Diner**
Location: Hotel's restaurant

Friday, April 28

08:00-18:00 Registration desk working hours

09:00-10:00 **Opening Ceremony**

Salma Mhamed Hichri Coordinator of the conference
Moncef Boukthir Minister of higher education and Scientific Research
Abdelwahed Mokni President of the University of Sfax
Hans Westlund President of the RSAI
Youness Boujelbene Dean of FSEGS

Room: Carthage

10:00-10:30 **Coffee Break**

10:30-11:00 **Presidential address**
Hans Westlund Urban-rural relations in the post-urban world

11:00-11:15 **Introduction to the conference**
Salma Mhamed Hichri On the sustainability of smart cities and related data-driven innovation

11:15-11:45 **Plenary keynote session 1**
Yannis Psycharis Income inequalities in cities and metropolitan areas in times of sequential crises and uncertainty: evidence from Athens

Chair: **Dhafer Saidane**

Room: Carthage

11:45-13:15 **Parallel sessions A¹ (ONSITE)** **Romanian Session (ONLINE)**
Chairs: **Daniela Constantin, Samir Trabelsi**
Room: Carthage

13:15-14:30 **Lunch**

14:30-15:00 **Plenary keynote session 2**
Eduardo Haddad The economics of urban mobility

Chair: **Andrea Caragliu**

Room: Carthage

¹ For parallel sessions A, B, C, please see details of presentations, authors and rooms below.

12:00-13:00	Closing Ceremony Plenary keynote session 4 Sami Auadi Towards an alternative model of inclusive regional development Chairs: Abdelfettah Ghorbel, Nouri Chtourou Room: Carthage
13:00-14:15	Lunch

Program Overview

Friday, April 28, 2023

08:00-18:00	Registration desk working hours	
09:00-10:00	Opening Ceremony	
10:00-10:30	Coffee break	
10:30-11:00	Presidential address	
11:00-11:15	Introduction to the conference	
11:15-11:45	Plenary keynote session 1	
11:45-13:15	Parallel Sessions A (ONSITE)	Romanian Session (ONLINE)
13:15-14:30	Lunch	
14:30-15:00	Plenary keynote session 2	
15:00-15:30	Meeting RSAI community	
15:30-16:00	Coffee break	
16:00-17:30	Parallel sessions B (ONSITE)	Greek session (ONLINE)
17:30-19:00	Round table	
20:30-22:30	Official dinner	

Parallel sessions A (ONSITE) & Romanian session (ONLINE)

11:45-13:15

Sustainable transport and logistics (1)

Chairs: Hans Westlund (Royal Institute of Technology, Sweden), Louafi Bouzouina (Lumière University Lyon 2, France)

Room: Bellarigia

Louafi Bouzouina, Thibault Isambourg and Dominique Mignot (Lumière University Lyon 2, France)

The private neighborhood at the forefront of the fifteen min city

Mohamed Mouloud Haddak (Gustave Eiffel University, France)

Transports et santé dans les villes du futur

Nawel Ayadi (Paris Cité University, France), Nahla Ben Amor (University of Tunis, Tunisia), Souhir Bouzid (University of Carthage, Tunisia), Bertrand Jouve (University of Toulouse, France), Bruno Revelli (University of Toulouse, France), Paul Rochet (University of Toulouse, France) and Yassine Turki (University of Carthage, Tunisia)

Vers une mobilité urbaine plus durable : le cas du Grand Tunis

Tarak Barhoumi and Younes Boujelbene (University of Sfax, Tunisia)

A Reorganization Strategy of the Urban Logistics System: Application of the Neural Network Model

Moez Kilani (University of Littoral Opal Coast, France) and Souhir Bennaya (University of Sousse, Tunisia)

How much reduction in congestion and emissions of pollutant gases can be reached by promoting cycling in urban areas

Climate change and resilience

Chairs : Jean-Pierre Domecq (University of Pau and Pays de l'Adour, France), Mohamed Ayadi (University of Tunis, Tunisia)

Room: Byrssa

Jean-Pierre Domecq (University of Pau and Pays de l'Adour, France)

La métropolisation des populations du Sud à l'épreuve d'un nouveau seuil écologique

Malek Ghileb and Hanene Jamoussi (University of Manouba, Tunisia)

Urban governance and drinking water management in Tunisia

Yamina Jlaiel, Jamel Louati and Hanene Jamoussi (University of Manouba, Tunisia)

Intégration des risques climatiques dans la planification territoriale

Friday, April 28, 2023
Parallel sessions A

Friday, April 28, 2023
Parallel sessions A

Sirine Mnif and Rima Lajnef (University of Sfax, Tunisia)
Changement climatique et croissance: cas des pays développés

Ecological and digital transitions, innovations and the city of the future (1)

Chairs: Jean-Paul Carrière (François-Rabelais University, France), Souhir Abbes (University of Sfax, Tunisia)
Room: Dougga

Friday, April 28, 2023
Parallel sessions A

Jean-Paul Carrière (François-Rabelais University, France)

Un nouvel enjeu urbain dans un contexte de renouvellement de la planification urbaine imposé par les changements globaux, environnementaux et sociétaux : la sobriété foncière

Rania Ben Hmida (University of Sfax, Tunisia), Kamel Helali (University of Sfax, Tunisia) and Elkadhi Hayfa (University of Carthage, Tunisia)

Does energy transition really sustainable: Relationship between total renewable energy and mineral resources: A STIRPAT model for 50 countries

Mariam Belgaroui (University of Sfax, Tunisia), Ali Mahdhi (University of Sfax, Tunisia), and Olfa Kammoun (University of Tunis, Tunisia)

Technological Heterogeneity and Eco-Efficiency of Tunisian Thermal Power Plants: A DEA Meta-frontier Approach with Hyperbolic Distance Function

Amin Sallem (University of Sfax, Tunisia), Emna Gaddour (GIZ, Tunisia) and Ahmed Kamoun (SPECTRA, Tunisia)

Installation photovoltaïque décentralisée et suspendue pour l'éclairage public raccordé au réseau Basse Tension à la commune CHIHIA-Sfax-Tunisie

Industrial and territorial ecology (1)

Friday, April 28, 2023
Parallel sessions A

Chairs : Sonia Zouari (University of Sfax, Tunisia), Mohamed Ben Amar (University of Sfax, Tunisia)
Room : Ulysse

Alaeddine Zouari, Fatma Lehyani and Hana Ben Slama (University of Sfax, Tunisia)

Proposition d'une feuille de route pour la gestion des déchets de construction et de démolition dans un contexte d'économie circulaire

Nesrine Maaloul (University of Sfax, Tunisia)

L'économie circulaire au profit du dynamisme industriel : cas des entreprises manufacturières de la région de Sfax

Affa Ferhi, Manar Maghrebi and Kamel Helali (University of Sfax, Tunisia)

Impact of renewable energy on economic growth and social welfare: A linear analysis in African countries

Wafa Mallek and Rim Arem (South Mediterranean University, Tunisia)

Cognitive Proximity, Knowledge, and Innovation Performance within a Spatial Proximity Context : The Case of the ICT Sector in Tunisia»

Health, education, food security and urban growth

Chairs : Foued Badr Gabsi (University of Sfax, Tunisia), Kamel Helali (University of Sfax, Tunisia)

Room: Eljem

Simona Cafieri (National Institute of Statistics, Italy)

Environnement et qualité de vie : faut-il vivre dans les villes ou les zones rurales ?

Slim Chtioui (University of Sfax, Tunisia)

Governance on public health sector: role of civil servants

Amal Hssairi (University of Sfax, Tunisia)

Université et développement régional : cas de l'université de Sfax

Bochra Mannai (University of Sfax, Tunisia)

Innovation et rationalisation des dépenses publiques de santé : le cas des hôpitaux de Sfax

Romanian session (ONLINE)

Chairs: Daniela Constantin (Bucharest University of Economic Studies, Romania), Samir Trabelsi (Brock University, Canada)

Room: Carthage

Daniela Constantin (Bucharest University of Economic Studies, Romania), Adriana Dardala (Bucharest University of Economic Studies, Romania) and Cristina Serbanica (Constantin Brancoveanu University of Pitesti, Romania)

Patterns of the spatial distribution of coworking spaces in Romania. Do they contribute to alleviating the territorial inequalities?

Cristina Lincaru (INCSMPS, Romania), Pîrciog Speranța (INCSMPS, Romania), Grigorescu Adriana (University of Bucharest, Romania) and Cristina Stroe (INCSMPS, Romania)

Linear Spatio Temporal Forecast for Housing Overcrowding across Europe – insights for harnessing talents in Regions in a talent development trap or at risk of falling into one

Friday, April 28, 2023
Parallel sessions A

Friday, April 28, 2023
ONLINE: Romanian session

Iuliana Parvu and Laura Patache Iacob (University of Bucharest, Romania)

Managerial approaches to adapt the higher education process to the current requirements of the labor market

Parallel sessions B (ONSITE) & Greek session (ONLINE)

16:00-17:30

Econometric and spatial modelling and city growth

Chairs: Andrea Caragliu (Politecnico di Milano, Italy), Mokhtar Kouki (University of cartage, Tunisia)

Room: Bellarigia

**Friday, April 28, 2023
Parallel sessions B**

Andrea Caragliu (Politecnico di Milano, Italy), Martijn Smit (Utrecht University, Netherlands) and Frank van Oort (Erasmus University Rotterdam, Netherlands)

Who's right, Weber or Glaeser?

Mariem Ayadi (Columbia University, New York, USA) and Mohamed Ayadi (University of Tunis, Tunisia)

Measuring local attractiveness towards better South-South cooperation using alternative data: the case of North Africa

Moez Kilani (University of Littoral Opal Coast, France) and Asma Ouerheni (University of Sousse, Tunisia)

Proposition d'un système amélioré de transport de la main d'œuvre agricole

Asma Zekri (University of Sfax, Tunisia)

Essai de construction d'une matrice de Comptabilité Sociale Régionale : cas de la Tunisie

**Friday, April 28, 2023
Parallel sessions B**

Entrepreneurship and sustainable urban development

Chairs: Ilia Taktak (University of Mannouba, Tunisia), Amine Lahiani (University of Orleans, France)

Room: Dougga

Ilia Taktak (University of Mannouba, Tunisia)

Promouvoir l'entreprenariat dans une économie de la décroissance : enjeux et défis pour la Tunisie

Salma Mhamed Hichri (University of Sfax, Tunisia) and Wafa Mallek (South Mediterranean University, Tunisia)

Co-location and innovation in high-tech companies in Tunisia

Haifa Ben Ayed and Younes Boujelbene (University of Sfax, Tunisia)

Capacité d'innovation et performance à l'exportation : Cas de la Tunisie

Mohamed Amin Bardaa and Salim Morched (University of Sfax, Tunisia)

Etude d'un modèle de médiation en série pour relier la motivation entrepreneuriale verte et le comportement entrepreneurial vert des étudiants de l'université de Sfax

Ezzi Ferdaws (University of Sfax, Tunisia)

L'influence des mécanismes de gouvernance sur la performance environnementale

Migration and development of cities in the South

Chairs: Hassen Boubakri (University of Sousse, Tunisia), Mohamed Kriâa (University of Tunis, Tunisia)

Room: Ulysse

Hassen Boubakri (University of Sousse, Tunisia)

Cities and migrant operators: the contribution of diasporas to the development of cities and regions of origin

Mohamed Kriâa and Fares Ben Youssef (University of Tunis, Tunisia)

Les déterminants de l'intention de migrer en Tunisie à travers une approche individuelle et spatiale

Rabeb Smati and Mohamed Kriâa (University of Tunis, Tunisia)

Propriétés cycliques des transferts de fonds

Hassen Boubakri (University of Sousse, Tunisia) and Fethi Rekik (University of Sfax, Tunisia)

Welcoming cities in the Mediterranean? The experience of local authorities in southern Mediterranean cities for the reception and integration of foreign migrants

Mohamed Kriâa and Nafissa Abbassi (University of Tunis, Tunisia)

La migration interne et la disparité des taux d'attraction en Tunisie : Une approche par l'analyse et l'économétrie spatiale

Roseline Misati, Maureen Odongo, Kethi Ngoka, Anne Kamau (Central Bank of Kenya)

International Migration, Remittances, and Investment in Africa

Industrial and territorial ecology (2)

Chairs: Yannis Psycharis (Panteion University, Greece), Hamadi Tizaoui (University of Tunis, Tunisia)

Room: Byrsaa

Tarak Barhoumi, Karim Kammoun and Faika Skander Charfi (University of Sfax, Tunisia)

Ecologie Industrielle et Influence des Ecosystèmes Tunisiens correspondants dans le contexte du Développement Durable

Souhir Abbes (University of Sfax, Tunisia), Sondes Kahouli (Brest University, France) and Sirine Issaoui (University of Sfax, Tunisia)

Middle East Ports and port-cities in transition: what compliance with the World Port Sustainability Program?

Fatma Lahieni, Mariem Krayem and Alaeddine Zouari (University of Sfax, Tunisia)

Cadrage et évaluation de la gestion durable des déchets de soins de santé durant la pandémie du COVID-19

Ahmed Derbel (University of Sousse, Tunisia), Nessrine Grati (University of Tunis), Sana Salhi (University of Tunis El Manar, Tunisia), Kais Samet (University of Sfax) and Youness Boujelbene (University of Sfax, Tunisia)

Innovative textiles – Reinventing fashion

Sustainable transport and logistics (2)

Chairs: Eduardo A. Haddad (University of São Paulo, Brazil), Mohamed Mouloud Haddak (Gustave Eiffel University, France)

Room: El Jem

Eduardo A. Haddad (University of São Paulo, Brazil), Mahmoud Arbouch (Mohammed VI Polytechnic University, Morocco) Ademir A. Rocha (University of São Paulo, Brazil) and Vinicius A. Vale (Federal University of Paraná, Brazil)

Valuing the Economic Cost of Remoteness: A Case Study of the Tiznit-Dakhla Expressway in Morocco

Ali Mahdhi, Moez Dhiabi and Sami Hammami (University of Sfax, Tunisia)

Regional Disparity and Technical Efficiency of the Tunisian Public Transport System: A Bootstrapped DEA Meta-Frontier

Dhouha Rebei, Walid keraani and Hanene Jamoussi (University of Manouba, Tunisia)

Les ports intelligents comme outil de renforcement de la résilience des villes

Mayssa Koubaa, Karim Kammoun and Ahmed Abdelkafi (University of Sfax, Tunisia)

Main problems that affect vessels' berthing at Sousse' port: A qualitative study

Friday, April 28, 2023
Parallel sessions B

Friday, April 28, 2023
Parallel sessions B

Wafa Khadhraoui and Nahed Zghidi (University of Sfax, Tunisia)

Analyse de la relation urbanisation, consommation d'énergie du secteur routier et croissance économique (cas de la Tunisie)

Greek session (ONLINE)

Chairs: Asimina Christoforou (Panteion University, Greece), Louafi Bouzouina (Lumière University Lyon 2, France)

Room: Carthage

Yannis Psycharis, Thomas Georgiadis, Panagiotis Nikolopoulos (Panteion University, Greece)

Aspects of income and consumption inequality in Metropolitan Areas: Evidence on the Metropolitan Area of Attica in Greece

Yannis Psycharis (Panteion University, Greece), Athens Cleon Tsimbos (University of Piraeus, Greece), Leonidas Doukissas (Panteion University, Greece), Panagiotis Pantazis, (Panteion University, Greece)

Assessing the influence of income inequality and age structure of the population on the spatiotemporal variations of COVID-19 mortality: evidence from Greece

Yannis Psycharis (Panteion University, Greece), Anastasia Panori (Aristotle University of Thessaloniki, Greece)

Residential segregation, socio-economic conditions and income inequality: Evidence from Athens

**Friday, April 28, 2023
ONLINE: Greek session**

Program Overview

Saturday, April 29, 2023

08:00-09:30 Parallel Sessions C (**ONSITE**)

Maghreb session (**ONLINE**)
Technology, connectivity and
environment (**ONLINE**)

09:30-10:00 **Plenary keynote session 3**

10:00-10:30 Coffee break

10:30-12:00 Panel

12:00-13:00 **Closing Ceremony**
Plenary keynote session 4

13:00-14:15 Lunch

Parallel sessions C (ONSITE) & Maghreb session (ONLINE) & Technology, connectivity and environment (ONLINE)

08:00-09:30

Finance and regional development

Chairs: Nabil Jedlane (Abdelmalek Essaâdi University, Morocco), Sami Hammami (University of Sfax, Tunisia)

Room: Bellarigia

Nabil Jedlane (Abdelmalek Essaâdi University, Morocco)

Le déficit de financement climatique en Afrique, quelles solutions ?

Anne Kamau, Rosline Mizatti, Kethi Ngoka, Maureen Odongo and Maureen Were (Central Bank of Kenya)

Digital financial services and implications of financial literacy on gender and over indebtedness: the case of Kenya

Moez Kilani (University of Littoral Opal Coast, France), Mihaly Petreczky, (CNRS), Sana Ben Abdallah (University of Sfax, Tunisia) and Dhafer Saidane (SKEMA Business School, France)

Urban proximity, a new sustainable approach

Chedlia Farhat (University of Tunis, Tunisia)

Finance verte, développement financier, dégradation de l'environnement et développement durable

Mouhamed Belhedi and Moez Kilani (University of Littoral Opal Coast, France)

The supply of new housing in France

Saturday, April 29, 2023
Parallel sessions C

Saturday, April 29, 2023
Parallel sessions C

Local policies, social economy and social innovation

Chairs: Younes Boujelbène (University of Sfax, Tunisia), Ahmed Hachicha (University of Sfax, Tunisia),

Room: Ulysse

Hamadi Tizaoui (University of Tunis, Tunisia)

Les enjeux socio-environnementaux autour du système lagunaire de Bizerte : pour un développement urbain et économique résilient et durable

Tahar El Almi (Institut Africain d'Economie Financière, Tunisia)

La relance revisitée à la lumière de l'économie sociale

Fatma Safi (University of Sfax, Tunisia)

A Model of Public Education, Environmental Awareness and Environmental Quality—an Overlapping Generations Approach

Imen Jamoussi and Mourad Mroua (University of Sfax, Tunisia)

Les modèles comptables de développement durable

Rahma Joulek (University of Sfax, Tunisia)

La croissance inclusive en Tunisie : simulateur d'un nouveau contrat social juste et équitable

Ecological and digital transitions, innovations and the city of the future (2)

Chairs: Nahed Zghidi (University of Sfax, Tunisia), Slim Mahfoudh (University of Sfax, Tunisia)

Room: Dougga

Mariem Mrad (University of Sfax, Tunisia), Hedi Trabelsi (University of Sfax, Tunisia), Jacques Jaussaud (University of Pau and Pays de l'Adour, France) and Younes Boujelbene (University of Sfax, Tunisia)

Towards Supply Chain 4.0 in the context of Industry 4.0: Application of technologies for fighting the spread of COVID 19

Chaima Arous and Ines Abdelkafi (University of Sfax, Tunisia)

ICT for Energy Transition: Overview and Policies for Sustainable Development

Bochra Mannai and Fatma Hadhri (University of Sfax, Tunisia)

Utilisation des énergies renouvelables et innovation technologique : comparaison entre les pays développés et les pays en voie de développement

Dhouha Ben Chikha and Mohamed Ben Amar (University of Sfax, Tunisia)

Economie numérique et innovation verte dans un contexte de développement durable régional

Oussama Zaibi and Ahmed Hachicha (University of Sfax, Tunisia)

Innovation technologique, liberté économique, qualité institutionnelle et protection de l'environnement en Tunisie

Maghreb session (ONLINE)

Chair: Karim Kammoun (University of Sfax, Tunisia), Foued Badr Gabsi (University of Sfax)

Room: Byrssa

Samir Trabelsi (Brock University, Canada)

Disruptive Technologies, ESG, and Smart Cities in developing world

Ines Sbai and Saoussen Krichen (University of Tunis, Tunisia)

Big Data Analytics for Transportation management system applied to the Dynamic Pollution Routing Problem

Ghoufrane Derhy, Khalid Elkalay and Karima Khalil (Cadi Ayyad University, Morocco)

Assessment of Management Strategies Implementation in a Moroccan Marine Protected Area: Ecotrophic Modeling and Socio-economic Analysis

Lamia Leulmi, Youcef Lazri, Sofiane Bensehla and Brahim Abdelkebir (University 8 Mai 1945 Guelma, Algeria)

L'effet du changement climatique sur les précipitations extrêmes et les inondations urbaines (cas de la ville de Skikda, Algérie)

Mouna Elarbi (University of Sfax, Tunisia)

Reverse logistics network design for Tunisian healthcare waste

Technology, connectivity and environment (ONLINE)

Chair : Isabelle Rabaud (University of Orleans, France), Mounir Smida (University of Sousse)

Room: El Jem

Isabelle Rabaud, Camelia Turcu and Marcel Voia (University of Orleans, France)

The impact of technology and connectivity on trade patterns

Amani Abida (University of Sfax, Tunisia)

Repenser la connexion sociale : une nouvelle manière de concevoir l'espace public à l'ère de l'intelligence numérique

Sonia Hasni, Jihène Jlassi and Ines Rkik (University of Sfax, Tunisia)

Environmental impact of transport activities

Faiez Ghorbel (University of Sfax) and Haytham Chaabouni (University of Sfax)

Analyse des stratégies d'acteurs dans l'écosystème d'innovation de Sfax

Inès Ekpawou Elzame, Sondou Tchakouni and Aholou Coffi (University of Lomé, Togo)

Territorialisation du Grand Lomé et les défis d'une gestion durable de déchet solide ménager : émergence d'un nouveau système de gestion de déchets ?

