



SuST.2024

**International Symposium and Workshops
|Nisyros, 07-10 July 2024**

Sustainable Solutions at Times of Transition (SuST)

International Symposium and Workshops, 07 - 10 July 2024, Nisyros Island, Greece

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Municipality of Nisyros,
Greece



ARISTOTLE
UNIVERSITY OF
THESSALONIKI



Mediterranean Network of Engineering &
Management schools, France

UNESCO CHAIR 651



PROGRAM

Sunday, July 7 th , 2024		SYMPOSIUM - ZOSIMOPOULIO CONFERENCE HALL	
18.00-21.00	Registration		
19.30-20:00	Welcome addresses		
	Anastasia Zabaniotou, Conference Chair		
	Christofis Koroneos, Mayor of Nisyros		
	Nicolas Moussiopoulos, Honorary Chair		
20:00-21:30	<p style="text-align: center;">Keynote speakers</p> <p style="text-align: center;"><i>Charís Doukas, Mayor of Athens</i> Professor of Energy Policy and Management at the School of Electrical and Computer Engineering of the National Technical University of Athens</p> <p style="text-align: center;"><i>Christofis Koroneos, Mayor of Nisyros Municipality</i> Associate Professor at the University of Western Macedonia, Chair of Renewable Energy Sources and Energy Management</p>		
Monday, July 8 th , 2024		SYMPOSIUM - ZOSIMOPOULIO CONFERENCE HALL	
8:30-14:00	Registration		
	<i>Moderators: A. Zabaniotou, Ch. Koroneos, N. Moussiopoulos</i>		
9:00-9:30		Donald Huisigh (USA) (online), Plenary speaker <i>Don't Waste a GOOD Crisis!</i>	
9.30-10.00		Constantinos Sioutas (USA), keynote speaker <i>Air Quality and health impact in Milan: Biomass burning post Russia-Ukraine crisis</i>	
S1	<i>Sustainable and Just Energy Transition</i>	<i>Moderators: C. Sioutas, D. Oktay</i>	
10:00-10:20	Abdul Salam K. Darwish (UK), Keynote Transition to sustainable energy: Advancing energy crisis solutions through floating wind technology		
10:20-10:40	Athanasios G. Konstandopoulos (GR), Keynote Sustainable energy carriers for a just transition		
10:40-11.00	Murphy Peksén (DE), keynote Multiscale-multiphysics considerations of electrolysis materials, components, and systems: A sustainable way to produce green hydrogen		
11.00-11.20	Nicolas Moussiopoulos (GR), Keynote A reference solution for a global climate-neutral and sustainable energy system		
11.20-12.00	PANEL Discussion and Questions		
	12:00-12:30 Coffee Break		
S2	<i>Holistic Perspective of Climate Change</i>	<i>Moderators: G. Katsavounidou, I. Spilanis</i>	
12:30-12:50	Derya Oktay (TR), plenary speaker Sustainable urbanism in the era of globalization and climate change: A holistic perspective		
12:50-13:10	P. Morone, A. Morone, R. Caferra The proximity of climate change: Personal experience, psychological distance and sustainable behavior		
13.10-13:30	A. Trombadore, G. Calcagno, L. Montoni Energy and food: Technological innovation for energy efficiency and BIPV in a greener agri-food sector		
13:30-14:00	PANEL Discussion and Questions		
	14:00-16:00 Midday Break for Lunch		
S3	<i>Participatory Processes for Sustainable Islands: Carrying Capacity, Social, Cultural, Economic, & Environmental aspects</i>	<i>Moderators: P-J. Morone, N. Moussiopoulos</i>	
16:00-16:15	I. Spilanis, A. Mitropoulou Islands: why now they require a dialogue with locals than ever before		
16:15-16:30	E. Kondyli, J. K. Kaldellis, M. Zaroula, A. Adrianopoulou Water Resources sustainability in Aegean Islands: The need for an integrated approach to a critical and continuous water- energy problem		
16:30-16:45	N. Alonistioti, V. Gkika, C.J. Koroneos Smart Nisyros: A digital twin-empowered platform for the detection, management		
16:45-17:00	A.J. Kaldellis, M. P. Bratitsis, E. M. Kondyli, J. K. Kaldellis Optimum sizing of a PV-battery solution for the green operation of Nisyros new desalination plant		
17:00-17:15	D. Symeonidis		

	The potential impact of hydrogen valleys for regional growth of the tourism industry in small islands: A Case Study	
17:15-17:30	I. Spilanis, S. Karampela, E. Alexiou, I. Katsounis, P. Dimitropoulos, A. Mitropoulou, K. Laskari	Participatory processes as a key strategy for sustainable Ionian islands
17:30-17:45	D. Koutsi, E. Muggiano	Co-creating island tourism futures: Insights from participatory workshops implemented on Mediterranean islands
17:45-18:00	PANEL Discussion and Questions	
18:00-18:30 Coffee Break		
S4	<i>Sustainability of Heritage and Tourism</i>	<i>Moderators: N. Alonistioti, A. Trombadore</i>
18:30-18:45	S. Coll Pla, J. R. Calzada, M. F. Pérez, A. Panayotu	The sustainability of urban heritage
18:45-19:00	M. Nastou	Sustainable heritage management of the ancient Greek theatre of Lindos, Rhodes, Greece
19:00-19:15	A. Mitropoulou, I. Spilanis	Integrated approach for sustainable development on islands under tourism pressure: Exploring the link between overtourism and carrying capacity within an interdisciplinary dialogue
19:15-19:30	I. Kostavelis, Ch. Achilles, D. Folinas	Cultivating connections: The TOURAL project's pathway to sustainable development through cultural and creative tourism
19:30-20:00	PANEL Discussion and Questions	
21:00-24:00	<i>GALA DINNER</i>	

Tuesday, July 9th, 2024

WORKSHOPS-ZOSIMOPOULIO CONFERENCE HALL

W1	<i>Climate Change Adaptation, Monitoring, Technological Solutions</i>		<i>Moderators: A. Konstandopoulos, E. Kondyli</i>
9:00-9:15	D. Assimacopoulos, I. Sebos, D. Chioti, P. Katsiardi	Development and implementation of a national monitoring and evaluation system for climate change adaptation in Greece	
9:15-9:30	N. Afxentiou, O. Douni, N. Paraskakis, P.A. Fokaides	Streamlining smart readiness: An innovative tool for quick SRI assessment in European buildings	
9:30-09:45	A. Wolter, A. S. Darwish, P. Farrell	Beyond fossil fuels: Green hydrogen & wind energy-Building a secure and sustainable future	
09:45-10:00	D. Ziouzos D., V. Karayannis, C. Tsanaktsidis	Sustainable wind energy production with the development of an innovative turbine monitoring algorithm using swarm robotics	
10:00-10:15	T. K. Akiki, M.-J. Semaani, B. Nehme	Offshore wind potential in Lebanon	
10:15-10:30	D. Tsirigoti	Urban typologies and sustainability: The effect of urban geometry at the Greek city's microclimatic conditions	
10:30-11:00	PANEL Discussion and Questions		
11:00-11:30 Coffee Break			
W2	<i>Circular Economy and Bioeconomy Solutions</i>		<i>Moderators: C.G. Young, D. Giorgi</i>
11:30-11:45	D. Achilias	The (thermo)chemical recycling of plastics as a sustainable solution to the plastic waste problem	
11:45-12:00	M. Bampaou, G. Kardaras, Tz. Kraia, K.D. Panopoulos, L.P. Chrysikou, S. Bezergianni, S. Kiartzis, S. Pilitsis, E.A. Nanaki	A circular economy model for plastics waste valorization towards high-added value products	
12:00-12:15	V. Proskynitopoulou, A. Vourros, P. Dimopoulos Toursidis, S. Lorentzou, T. Korka, A. Marinou, A. Foutri, Y. Fallas, N. Ntavos, K.D. Panopoulos	Upcycling food waste for healthier soil and more resilient food systems: A living lab approach in Northern Greece	
12:15-12:30	M. Proestou, P. H. Feindt, N. Schulz	The role of the state in bioeconomy governance – The case of Germany and Malaysia	
12:30-12:45	K. Poullos, A. Zafeirakou, A. Katsoulea, G. Perkoulidis, N. Moussiopoulos	Development and implementation of a municipal solid waste management system in the context of circular economy: Implementation in the region of Central Macedonia, Greece	
12:45-13:00	E. Sdrolia, K. Cradock, M. Dermiki, G. Zarotiadis		

	Green products and firm's financial performance in European manufacturing: A systematic literature review and meta-analysis
13:00-13:15	E. Giarimaga, L. Kitsanta, E. Salonikidis, S.-M. Tasiopoulos, A. Charalampous, C. Kyriklidis, C.G. Tsanaktsidis Recent trends on optimal biodiesel production through artificial intelligence and nature-inspired techniques: A review
13:15-13:30	D. Skodra, C. Kiriklidis, E. Lakioti, V. Karayannis, C. Tsanaktsidis Food industry waste management in the context of circular bio-economy towards a sustainable society
13:30-14:00	PANEL Discussion and Questions
14.00 -16:00 Midday Break for Lunch	
W3	<i>Digital Technologies and Artificial intelligence</i> <i>Moderators: A.S. Darwish, M. Peksen</i>
16:00-16:15	A.Yayan, C. Ozonuk, B. G. Gulcan Developing an AI-based approach in creating visual and digital content and AI generated fashion
16:15-16:30	D. Giorgi, C. Morea, C. Rutigliano New circular scenarios for textile & fashion through digital product passport and digital twin
16:30-16:45	B. Koyuncu, C. Candan, M. M. Peksen, B. Nergis A novel artificial intelligence-based approach for knitted fabric development
16:45-17:00	B. Saber, N. El Haoud, F. Z. Bassir Artificial intelligence at the service of the smart and ecological city
17:00-17:15	N. El Haoud, Z. Bachiri Impact of AI on socio-economic inequalities in Morocco: Perspectives and solutions
17:15-17:30	N. El Haoud, O. Hali Exploring artificial intelligence in education in Moroccan context: Challenges and opportunities
17:30-17:45	S. Juidette, A. Zraiouil, S. Chatoui Evaluating E-Learning Platforms in Higher Education: An Empirical Study of User Acceptance and Experience
17:45-18:00	PANEL Discussion and Questions
18:00-18:30 Coffee Break	
W4	<i>Urban and Rural Sustainability & Inclusion</i> <i>Moderators: T. Akiki, A. Wolter</i>
18:30-18:45	W. O. Benaissa, S. Kabbaj, F. Ouahita Navigating the eco-digital nexus for fostering sustainable futures and ecological resilience. How can digitalization be leveraged to promote sustainable solutions and enhance resilience in times of ecological crisis?
18:45-19:00	N. Manirakiza, C. G. Young MSW landfills in developing countries - air and water pollution: how to improve?
19:00-19:15	M. Asteriou, G. Zarotiadis Evaluating protected areas' contribution to sustainable local development in Greece
19:15-19:30	G. Katsavounidou Early adolescent girls and their environment: Gendered experience of urban, suburban, and rural neighbourhoods in Greece
19:30-19:45	M. Chouari, M. Ghiss Gender equality policies towards the empowerment of rural women in Tunisia
19:45-20:00	PANEL Discussion and Questions
20.30-24:00	SOCIAL EVENT PINK FLOYD CONCERT AT THE VOLCANO

Thursday, July 10th, 2024	
NETWORKING-COLLABORATION	
09:30-11:30	<i>Moderators: A. Zabaniotou, N. El Haoud, T. Akiki</i>
11:30-12.30	Closing Session
PANEL: C.J. Koroneos, A. Zabaniotou, C. Sioutas, A. Konstandopoulos, A.S. K. Darwish, D. Oktay, M. Perken, E.Kondyli, I. Spilanis, P-J. Morone	