EMIDWORLD CONGRESS

13-15 NOVEMBER

EMİDWORLD'25

BAKU



PROCEEDINGS BOOK

Editors: Ali KESTANE-Adil AKINCI

2025

AFRO-AVRASYA YAYINLARI

NOVEMBER 13-15 2025 /BAKU

EMIDWORLD'25

PROCEEDINGS BOOK

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EMIDWORLD'25 PROCEEDINGS BOOK
Editors
Assoc. Prof.Dr. Ali KESTANE
Prof. Dr. Adil AKINCI
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EMIDWORLD'25
3th International Congress on Economics Public Finance Business & Social Sciences
13-15 NOVEMBER 2025
BAKU/ AZERBAİJAN
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www.emidworld.com

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About the Congress

Dear EMIDWORLD Conference delegates,

The EMIDWORLD'25 International Congress on Economics, Public Finance, Business Administration, and Social Sciences was successfully held in Baku, the capital of the Republic of Azerbaijan, on November 13–15, 2025, with the aim of strengthening international academic cooperation and scientific interaction. Organized through the collaboration of Kilis 7 Aralık University and Baku State University, this scholarly event made significant contributions to contemporary scientific discourse through its interdisciplinary framework.

Within the scope of the congress, a total of **278 scientific papers** were presented with the participation of academics and researchers from **33 different countries**, and current theoretical and applied issues in the fields of economics, public finance, business administration, and social sciences were comprehensively discussed with more than **350 participants**. The convergence of diverse academic traditions, methodological approaches, and research perspectives further enhanced the scientific quality and international visibility of the congress.

All submitted papers were meticulously evaluated in accordance with the criteria of originality, scientific methodology, compliance with ethical principles, and contribution to the relevant fields. This rigorous evaluation process reinforced the academic credibility and scientific prestige of the congress. The present Abstracts Book aims to serve as a permanent and reference source for researchers by systematically compiling the core findings and research frameworks of the studies presented at the congress.

On this occasion, I would like to extend my sincere gratitude to Baku State University for its academic and institutional support, to the administration of Kilis 7 Aralık University, to the esteemed members of the scientific and organizing committees, to our reviewers and session chairs, and to all authors who contributed to the congress with their valuable scholarly work. I firmly believe that the EMIDWORLD'25 Congresses will continue to advance as a sustainable academic platform that promotes international collaboration, joint research, and a strong culture of scholarly publication.

With the hope that this **Proceeding Book** will contribute to scientific research, inspire future studies, and foster interdisciplinary interaction, I respectfully submit my regards.

On behalf of the EMIDWORLD'25, I wish to see all of you at our next conference to be held in **Turkish Republic of Northern Cyprus**.

Yours sincerely.

Assoc. Prof. Dr. Ali KESTANE

Chair of the Organizing Committee

Photo Gallery











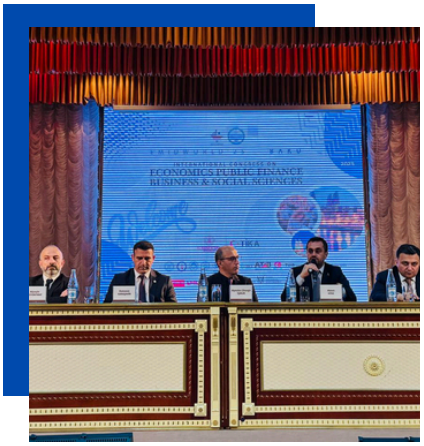


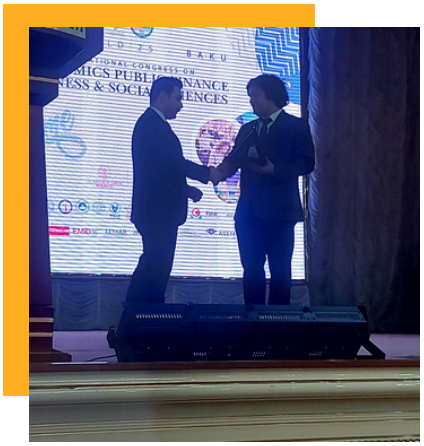




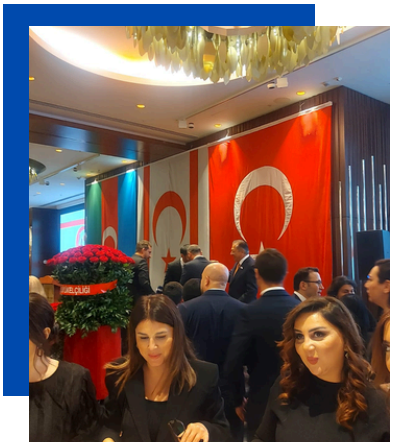


Photo Gallery

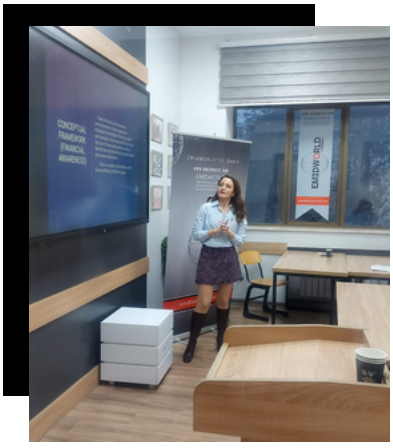
















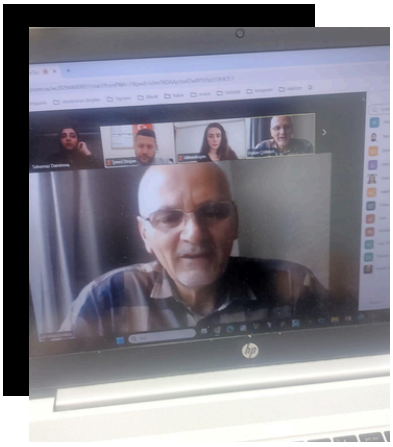


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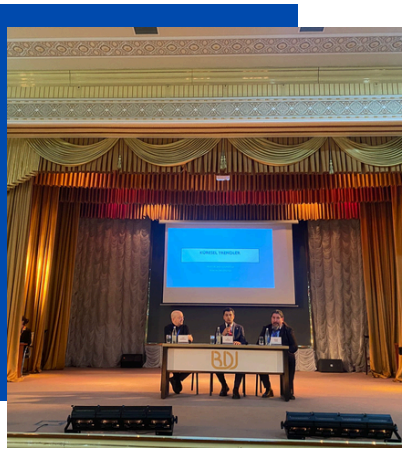


















Photo Gallery



















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EMIDWORLD CONGRESS

PROGRAMME (Oral-FacetoFace Presentations)

EMIDWORLD INTERNATIONAL CONGRESS ON ECONOMICS PUBLIC FINANCE BUSINESS & SOCIAL SCIENCES

13-15 NOVEMBER 2025 / BAKU-AZERBAİJAN

13 November 2025, THURSDAY	
09.00-10.00	**Introduction - Registration**
10.00-11.20	**Opening Ceremonies - Music Recital** **Protocol Speeches** Prof. Dr. Elçin Səfəralı oğlu BABAYEV - Bakü Devlet Üniversitesi Rektörü Prof. Dr. Zekeriya AKMAN – Kilis 7 Aralık Üniversitesi Rektörü Doç. Dr. Ali KESTANE- Kongre Düzenleme Kurulu Başkanı Abdullah EREN - TİKA Başkanı / Vekili Erhan UFAK - Türk Sanat Akademisi TSA / Başkanı Erhan UFAK Sanatçı Suat ÖNAL - Osmaniye Milletvekili (24.25., 26. Dönem) Prof. Dr. Birol AKGÜN – Bakü Türk Büyükelçisi Prof. Dr. Serdar YURTSEVER - Girne Amerikan Üniversitesi Rektörü Prof. Dr. Ahmet Vecdi CAN - Uluslararası Vizyon Üniversitesi Rektörü Prof. Dr. Süleyman KIZILTOPRAK - Kütahya Dumlupınar Üniversitesi Rektörü Prof. Dr. Levent KANDILLER - Yaşar Üniversitesi Rektörü Prof. Dr. Rengin AK - Kırklareli Üniversitesi Rektörü Prof. Dr. Mehmet Hasan EKEN - TEMAR Vakfı Başkanı Hüseyin BÜYÜKFIRAT - TUİB Başkanı Mursel RUSTAMOV - ATİB Başkanı Ramazan KARAŞAHIN - UID Başkan Vekili Ahmet KÖSE - T3 Vakfı, Teknofest, BAYKAR Türkiye Direktörü

Opening Panel Session		
	“GLOBAL ECONOMY: TRENDS & PROSPECTS”	
11.30-12.30	HALL I	Keynote Speakers: **Prof. Dr. Sadi UZUNOĞLU – Prof. Dr. Ahmet ATAKİŞİ** Moderator: **Doç. Dr. Ali KESTANE**

12.30-13.30	**LUNCH BREAK**

SESSION CHAIR: Assoc.Prof.Dr. Ali KESTANE		
13:30 - 15.00	Session 1 Hall 1	The Relationship Between Intercultural Communication Anxiety and Academic Success: The Case of International Students - Asst.Prof.Dr. **Ali ÖZBEK** - Asst.Prof.Dr. **Nurgül ERDAL**
		The Impact of Artificial Intelligence Use in Accounting Applications on Information Security - Assoc.Prof.Dr. **Ali KESTANE** - Asst.Prof.Dr. **Ali ÖZBEK**
		The Predictive Enterprise: Integrating AI-Supported Lean Transformation and Smart Quality Management in High-Stakes Industries – Prof. Dr. **Yusuf GÜMÜŞ** - **Aytaj MAMMADOVA**
		International Studies on Greenwashing: A Bibliometric Analysis - Asst.Prof.Dr. **Meryem USLU**
		A Comparison of Public Health Insurance Systems in Türkiye and Azerbaijan; An Evaluation on General Health Insurance and Compulsory Medical Insurance - Asst. Prof.Dr. **Ali ÜNAL** - Expert **Ravil Tagiyev**
		Examination of Azerbaijan and Turkey Health Expenditures, Health Investments and Health Indicators with Time Series Analysis- Asst. Prof.Dr. **Ali ÜNAL** - Expert **Ravil Tagiyev**
		Alignment of Corporate Sustainability Reporting Frameworks: Comparative Study of GRI, ESRS, and TSRS – Prof. Dr. **Niyazi KURNAZ –** Student **Vuqar DAVİDOV**
SESSION CHAIR: Prof. Dr. Mehmet Hasan EKEN		
13.30 - 15.00	Session 1 Hall 2	The Impact of Dividend Policy on Financial Performance: An Analysis of the Bist Banking Index – Asst. Prof. Dr. **Ferit KARAHAN –** Expert **Ecrin ŞARK**
		Bibliometric Analysis of Studies in the Field of Risk Management with Multi-Criteria Decision Making Techniques –Ph.D. **Zeliha OKÇU** – Prof. Dr. **Gülnur KEÇEK**
		Türkiye's Commercial Diplomacy Activities in Azerbaijan: The Role of Business Associations – Asst. Prof. Dr. **Alptekin Cihangir İŞBİLİR**
		Some Issues of Efficiency Increase in Oil and Gas Resources Usage in Azerbaijan – Asst. Prof. Dr. **Nasimi AHMADOV**
		Current Status of Socio-Economic Development in the Karabakh Economic Region - Expert **Svetlana NAJAFLI**
		Innovative Agriculture: Balanced Regional Development and Food Security – Ph.D. **Vilayet RAMAZANOV**

15.00-15.15 COFFEE BREAK

SESSION CHAIR: Prof. Dr. Ahmet ATAKİŞİ		
15.15 - 16.45	Session 2 Hall 1	Assessment of the impact of Oil and Gas Resources on Azerbaijan's Position on Energy Security in the World Energy Trilemma Index - Asst. Prof. Dr. **Nasimi AHMADOV**
		The Assessment of Tourism Potential of Nakhchivan Autonomous Republic - Expert **Tural MEMMEDOV**
		Empirical Findings on Türkiye's Energy Imports – Asst. Prof. Dr. **Süreyya KOVACI**
		Türkiye in the Shadow of Global Warming: Strategic Dynamics of Carbon Emissions on Water Efficiency – Asst. Prof. Dr. **Sabiha OLTULULAR**
		The Effect of Intercultural Communication Anxiety of Foreign Students from Türkiye's Neighborhoods on Psychological Well-Being - Asst.Prof.Dr. **Ali ÖZBEK** - Asst.Prof.Dr. **Nurgül ERDAL**
		Green Financial Instruments and Sustainable Investment Models İn Capital Markets – Asst. Prof. Dr. **Günay RƏSULOVA**
SESSION CHAIR: Prof.Dr. Sadi UZUNOĞLU		
15.15 - 16.45	Session 2 Hall 2	Global Management Mechanisms of National Economic Security in Conditions of Global Instability - Assoc.Prof. Dr. **Lalə VƏLIYEVA**
		Competitiveness and Structural Changes in the Industrial Sector: Azerbaijan on the Path to the WTO – Lec. Ph.D. **Elshan ORUJOV**
		Azerbaijan's Travel and Tourism Development Index (2019-2024) Performance: An International Analysis in the Context of the Commonwealth of Independent States and Regional Competition - Asst.Prof.Dr. **Metin ALLAHVERDI –** Assoc. Prof. Dr. **Fatih VAROL**
		Cluster-Based Development and Cooperation Mechanisms in the Canned Food Industry of Azerbaijan: International Experience and National Adaptation – **Emilya SHUKUROVA**

16.45-17.00 COFFEE BREAK

SESSION CHAIR: Prof.Dr. Dinmukhamed KELESBAYEV		
17.00 - 18.00	Session 3 Hall 1	The Effects of Digitalization and Artificial Intelligence on the Internal Audit Function: A Theoretical and Comparative Analysis - Student **Raazia NADEEM**
		The Relationship Between Financial Awareness and Financial Expectations Among Dental Faculty Students – Student **Tuhfe ÇELİKKOL** – Asst. Prof. Dr. **Ayşe TAŞ** – Assoc. Prof. Dr. **Kader AYDIN** – Assoc. Prof. Dr. **Mediha Mine ÇELİKKOL**
		Opportunities for Using Big Data in Small and Medium-Sized Enterprises in Kazakhstan - Prof.Dr. **Dinmukhamed KELESBAYEV**
		Environmental Issues between the Conflict Over Fossil Energy and the Inevitability of Renewable Energy – Assoc. Prof. Dr. **Mouloud BELGACEMI**
SESSION CHAIR: Assoc. Prof. Dr. Aygün XƏLILQIZI		
17.00 - 18.00	Session 3 Hall 2	Behavioral Dynamics in Global Project Management: A Globe-Based Study Of Azerbaijan – Student **Khayala AHMADOVA**
		Transformation of Political Power and the Changing Nature of Power Sources in the New World Order - **Nadir MIRZALIZADE**
		Architectural Metaphors in Political Speech. - **Lec. Azar MURADZADA**
		Social Work Methods with War Victims and Soldiers in Azerbaijan – Student **Nezrin OĞUZ**
		Common Values of Ethnic Groups in the Tradition of Coexistence in Azerbaijan – Assoc. Prof. Dr. **Aygün XƏLILQIZI**

14 NOVEMBER 2025, FRIDAY

SESSION CHAIR:		**Asst. Prof. Dr. Mehmet Murat AKTAŞ**
10.00 - 11.00	Session 4 Hall 1	Reflections on the Investment Committee in Equity-Based Crowdfunding as an Alternative Financing Method in Turkish Law – Asst. Prof. Dr. **Mehmet Murat AKTAŞ**
		Islam's Solutions to Poverty and Poverty and Incentive to Work – Expert **İbrahim Halil ER** – Expert **Sıddık BADILLI**
		Leading Across Cultures: Strategies For Effective Global Project Teams – Student **Khayala AHMADOVA**
		The Impact of Digital Maturity on Sme Performance: Evidence from Cross-Country Panel Data- **Student Shabnam SAFAROVA**
		A Constructivist Analysis of the Rwanda Conflict: Identity, Securitization, And Post-Genocide Transformation- Lec.**Aytan GURBANOVA**
SESSION CHAIR: Assoc.Prof.Dr. Qalib QAFARLI		
10.00 - 11.00	Session 4 Hall 2	International Experience in Legal Regulation of The Digital Economy, The Formation of an Optimal Model for Azerbaijan-Assoc.Prof.Dr. **Ikram JABRAILOV**
		The Internationalization Process of Uzbekistan Higher Education and The International Turkic States University-Asst.Prof.Dr. **Kadir Kürşat YILMAZ**
		Reform Discourse and Human Rights Reality During the Mirzioyev Period: An International Legal Assessment-Asst.Prof.Dr. **Kadir Kürşat YILMAZ -Assoc.Prof.Dr. Yunus DÜGER**
		The Impact of National Competitiveness on Economic Security-Assoc.Prof.Dr. Aslanov Habil
		Problems Of Developing the Competitiveness of The National Economy Under Geoeconomic Configuration Conditions-Assoc.Prof.Dr. **Qalib QAFARLI**
		Causes Of Caspian Sea Level Change, Eco-Economic Impacts: Regional Sustainable Governance Perspectives. - Lec.PhD. **Nilüfer MURADOVA**

Special Session

	"AZERBAYCAN EKONOMİSİNDE SİVİL TOPLUM KURULUŞLARININ ETKİSİ"	
11.00-12.30	HALL I	Ph.D. Alptekin Cihangir İŞBİLİR – **Hüseyin BÜYÜKFIRAT** – Mursel RUSTAMOV – **Ramazan KARAŞAHİN** – Ahmet KÖSE

12.30-13.30 **LUNCH BREAK**

SESSION CHAIR: Assoc. Prof. Dr. Semra ALTINGÖZ ZARPLI		
13.45 - 15.00	Session 5 Hall 1	Digital Transformation in Azerbaijani Public Administration: Innovative Service Models Through The E-Government Gateway – Asst. Prof. Dr. **Çağdaş ZARPLI** - Student **Elif Gökçe DEMEZ**
		Application of Artificial Intelligence in Public Services: Digital Healthcare – Assoc. Prof. Dr. **Nazim IBADOV** – Student **Sunay ALIYEVA**
		The Role of Information Technologies in the Management of Modern Conflicts – Assoc. Prof. Dr. **Shafag AHMADOVA** – Student **Sara SHAHSUROVA**
		Information Security Policy of the Republic of Azerbaijan: Legal Norms and Reforms – Ph.D. **Sanubar BABASHOVA**
		The Relationship Between Digitalization and Tax Revenues in Local Governments: The Case of Bursa Metropolitan Municipality – Assoc. Prof. Dr. **Semra ALTINGÖZ ZARPLI**
SESSION CHAIR: Assoc.Prof.Dr. Zemfira AKHMADOVA		
13.45 - 15.00	Session 5 Hall 2	Multivector Foreign Policy Model: The Example of Azerbaijan **–** Lec. **Gulgun QULIYEVA**
		The Concept of Ecocolonialism in the Discourse of Postcolonialism – Assoc. Prof. Dr. **Nargiz NAGIYEVA**
		US–EU Relations in the Second Term of Donald Trump - Student **Javid IBAYEV**
		Socio-Economic Analysis of the Application of Digital Technologies in the Field of Marketing in Azerbaijan- Lec. **Khadija ZEYNALLI**
		Mechanisms Of State Regulation of Azerbaijan'S Defense Policy Within the Framework of Partnership with NATO-Student **Mamedova Shams ALIGULUEVNA**-Expert PhD. **Tahir BEHBUDOV**
		Legal Framework and Mechanisms of Migration Management in the Republic of Azerbaijan-Assoc.Prof.Dr. **Zemfira AKHMADOVA**

15.15-15.30 **COFFEE BREAK**

SESSION CHAIR: Assoc.Prof.Dr. Siti Sarawati JOHAR		
15.30 - 17.00	Session 6 Hall 1	Urban Rural Polarization and Inequality of Opportunities Sociological Perspectives on Contemporary Divides- Student **Nihad GASIMOV** -Other **Sadiq NAGIZADA**
		Linking Leading Procyclical Indicators to Business Cycles: Evidence from Azerbaijan- Lec.PhD. **Esmira AHMADOVA**
		Emotional Intelligence as A Predictor of Affective Commitment Among Employees in Public Organizations - Assoc.Prof.Dr. **Siti Sarawati JOHAR, Dr. Noranifitri MD NOR,** Dr. **Nur Azah RAZALI,** Dr. **Nurul Aimi RAZALI** Dr. **Nor Shela SALEH,** Associate Prof. Dr. **R Zirwatul Aida R IBRAHIM**
		The Role of the Budget in Public Finance Management- Prof.Dr. **Sərvər ABBASOV**

SESSION CHAIR: Assoc.Prof.Dr. Sabina GARASHOVA		
15.30 - 17.00	Session 6 Hall 2	The Effectiveness of Social Awareness Programs in Combating Violence Against Children- Res. Asst. PhD. **Aysel NAGIYEVA**
		The Role of Civil Society in Achieving the Sustainable Development Goals- Student **Ulvi HASANOV-** Lec.PhD. **Sevinc ALIYEVA**
		The Problem of Ukraine'S Sovereignty in U.S.–Russia Relations-Assoc.Prof.Dr. **Sabina GARASHOVA**
		Artificial Intelligence and Post-Humanist Epidemiology: Rethinking the Boundaries of Reason and Knowledge-Lec. **Ali BABAYEV**
		The Influence of New Media on Political Communication-Lec. **Fayrushina LEYLA**

CLOSING SESSION - Next EMIDWORLD for 2026		
17.15-18.15	HALL 1	Prof. Niyazi KURNAZ **Prof. Dr. Adil AKINCI** Assoc. Prof. Dr. Ali KESTANE



EMIDWORLD CONGRESS

PROGRAMME (Virtual Presentations)

EMIDWORLD INTERNATIONAL CONGRESS ON ECONOMICS PUBLIC FINANCE BUSINESS & SOCIAL SCIENCES

13-15 NOVEMBER 2025 / BAKU-AZERBAIJAN (**UTC/GMT +4**)

13 NOVEMBER 2025, THURSDAY		
SESSION CHAIR: Prof. Dr. Bahar ERDAL		
13:00 - 14.30	Online Session 1	The Validity of Fisher Effect in Inflation Targeting Regime in Hungary - Prof.Dr. **Bahar ERDAL**
		The Control Strategy of the National Strategic Plan in the Framework of the New Cap 2023–2027: Governance, Evaluation and Comparative Analysis Approaches at the European Union Level - Student **Antonia LAMPRIDOU**
		Climate-Induced Labor Migration: Emerging Trends and Socioeconomic Drivers - Lec.PhD. **Bahtiyor ISMOYILOV**
		Tax Philosophy: Normative Theories and Critical Insights from Turkish Practice – Student **Alper KILIÇASLAN** – Student **Esvet AKYOL**
		Development of the Modern Labor Market - PhD. **Farkhad BATIROV**
		The Macroeconomic Impact of Digital Transformation: An Empirical Analysis of Türkiye – PhD. **Hamit CAN –** Assoc. Prof. Dr. **Meltem OKUR DİNÇSOY**
		Smart Cities In China And The Eu: Localizing Experiences For Sustainable Urban Development - Prof. Dr. **Denys ILNYTSKYY –** PhD. **Olga DROBOTIUK –** Student **Vladyslav ANDRUSYK**
SESSION CHAIR: Prof.Dr. Vahid ABBASOV		
13.30 - 15.00	Online Session 2	Tax Awareness and Tax Perception Among University Students: Theoretical Framework and An Empirical Assessment - Asst. Prof. Dr. **İbrahim OLGUN** - Student **Ayşe SANCAR**
		Impact of Directive (Eu) 2024/1265 on Sustainable Resource Management Within the EU - Assoc. Prof. Dr. **Rezarta TAHIRAJ**
		The Impact Of Digitalization On The Logistics Performance Index (LPI) – Res. Asst. **Ümit GEZİCİ**
		Enhancing Economic Integration in the South Caucasus: From Preferential Trade to a Potential Free Trade Agreement between Türkiye and Azerbaijan - Asst. Prof. Dr. **Özgül UYAN**
		Macroeconomic Instability and the Regulation of Inflation - Prof.Dr. **Vahid ABBASOV**
		The Causal Relationship between Financial Development and Human Development in Turkey: An Empirical Study Using the Hatemi-J Approach - Asst.Prof.Dr. **Selin Zengin TAŞDEMIR**
		A New Bridge between the Global South and Europe: An Economic and Political Analysis of the Indonesia–EU Free Trade Agreement - Asst.Prof.Dr. **Murat OZTURK** - Student **Arina KHAIRUNISA**
SESSION CHAIR: Lec. PhD. Niculescu LILIANA		
14.00 - 15.30	Online Session 3	Reforming From within: Aligning the Hellenic Court of Audit with International Standards and Public Sector Governance Reforms – **Nikoletta NTEKA -** Student **Elisabeth ZALIMIDOU**
		Marginalization of the Punjabi Language in Pakistani News Media – **Ermir MUBASHER**
		An Analysis of Consumption Pattern of the Habitants of Chawinda, District Sialkot - Student **Moazzam BUTT**
		Green Financial Instruments and Sustainable Investment Models in Capital Markets - Asst.Prof.Dr. **Günay RƏSULOVA**
		Assessing Fiscal Strength: Tax Potential as a Factor in Azerbaijan's Macrofinancial System – Ph.D. **Leyli MELIKOVA**
		The Human Right to the Environment, A Recognized Fundamental Right - Lec. PhD. **Niculescu LILIANA**
		Leadership and Psychological Research – PhD. **Azadxan VELIZADE**

SESSION CHAIR: Prof.Dr. Amiraslanova DILARA		
14.45 - 16.15	Online Session 4	Shock Asymmetry and Risk Transmission in Pension Navs: Evidence from Romania'S Private System - Student **Daniel GUSE** - Prof. Dr. **Cristiana TUDOR** - Student **Aura GIRLOVAN** - Student **Gabriel SAIU**
		Unveiling the Economic and Financial Drivers of Sustainability in Bangladeshi Banks: Insights Using Panel Data Analysis - Assoc. Prof. Dr. **Rejaul KARIM**
		Directions for the Formation of Economic Complexes in the Process of Integration into the World Economy - Assoc. Prof. Dr. **Galandarova UMMUHABIBA**
		Analysis of the State of the Banking System and Bank Lending in Ukraine - Prof.Dr. **Vadym SHVED** - Prof.Dr. **Hanna DAVYDENKO** - Prof.Dr. **Olena OMELCHENKO** – Student **Bohdan VAPELNYK**
		Models of Management of Financial Resources in Inclusive Economic Development - Prof.Dr. **Amiraslanova DILARA**
		Governance Sustainability and Green Innovation in West Africa - Lec. PhD. **Gbenga Festus BABARINDE –** PhD. **Jimoh Charles ADEFIKAYO –** PhD. **Tajudeen Idera ABDULMAJEED - Bashir Mohammed ABDULLAHI**
		Structural Features and Dynamics of Kazakhstan's External Trade (2004–2024) - Assoc.Prof.Dr. **Mehri Khasanovna VOKHIDOVA** - Asst.Prof.Dr. **Irtaza NAWAZ**

SESSION CHAIR: Assoc. Prof.Dr. Yıldırım Beyazıt ÇIÇEN		
15.15 - 16.45	Online Session 5	Asymmetric Relationship between External Debt and Inflation in Türkiye: A Nardl Approach- Asst. Prof. Dr.**Hatice ALTINOK**
		Examining the Possibilities of a Common Fiscal Model within the Organization of Turkic States in the Light of İsmail Gaspıralı's Principle "Unity in Language, Thought, and Action" - Student **Ahmet TAŞKIN** - Assoc. Prof. Dr. **Mustafa Alpin GÜLŞEN**
		Water Governance from a Global Public Goods Perspective: Theoretical Framework, Global Issues, and Assessment of Turkey – PhD. **Özcan KARATAY**
		The Relationship Between Positional Perception and Tax Morale - Asst. Prof. Dr. **Tuğçe KAYAGIL**
		The Course of Regional Development Disparities in Türkiye Over Time: Analysis Based on 1985–2017 Sege Data - Asst. Prof. Dr. **Ümit ACAR**
		Optimal Hydroelectric Capacity and the Environmental–Fiscal Time Inconsistency: An Institutional Inference from the Barro–Gordon Model - Assoc. Prof.Dr. **Yıldırım Beyazıt ÇIÇEN**
		Income Distribution and Financial Inclusion: A Systematic Review - Asst. Prof. Dr. **Gözde NALBANT EFE**

SESSION CHAIR: Prof. Dr. Cemal ELITAŞ		
15.45 - 17.15	Online Session 6	Rural Human Capital and Social Capital in Economic Development: Teacher Mentoring as a Quadruple Helix Mechanism – PhD. **İrem GÜNEŞ**
		An Empirical Analysis of the Relationship between Bitcoin and Alternate Means of Investment: An Ardl Bounds Testing Approach – PhD. **Yusuf YILDIRIM –** PhD. **Erhan VICIL**
		Financial Instruments for Green Finance - Student **Arif Ali CAN-** Prof. Dr. **Cemal ELITAŞ**
		Analysis of Causality between Domestic Credit Volume and Employment Rate in D-8 Nations: Evidence from Konya Panel Causality Tests - Lec. PhD. **Ömer KESKİN**
		Artificial Intelligence and the Energy Sector - Prof. Dr. **Cemal ELITAŞ**
		Same Risk, Different Narrative: Comparing Key Audit Matters (Kams) and Critical Audit Matters (Cams) - Assoc. Prof. Dr. **Neriman YALÇIN**
		Potential Impacts of Türkiye's First Climate Law on the Agricultural Sector – Assoc. Prof. Dr. **Resül YAZICI**

SESSION CHAIR: Prof.Dr. İsa İPÇİOĞLU		
16.30 - 18.00	Online Session 7	Content Analysis of Theses on Organizational Ambidexterity in Turkey - Asst.Prof.Dr. **Esra ULUKÖK -** Student **Nur Nida YILMAZ TEMIZ**
		Culture in Digital Enterprises: A Conceptual Study on Data-Driven, Innovative, and Agile Organizations - Student **Kader ARMAĞAN -** Prof.Dr**. İsa İPÇİOĞLU -** Res.Asst. **Tolga ALTINTAŞ**
		The Role of Green Human Resource Management in Fostering Sustainable Development and Employee Motivation: Insights from Bulgarian Practice - Prof.Dr. **Valentin VASILEV -** Prof.Dr. **Priya SOLOMON**
		The Particularities of the Reparation o Damage Caused to The Animal Kingdom in Criminal and Contravention Proceedings – Lec. PhD. **Gugulan EVGHENIA**
		The Transformation of Migrant Education Policies in Turkey: The Implementation Process and Sustainability Dimension of the PIKTES Project – Asst. Prof. Dr. **Figen YILDIRIM**
		Evaluation of the Externalities of Last-Mile Logistics – Prof. Dr. **Hakan ÇELİKKOL** – Prof. **Aydın KAYABAŞI** – Assoc. Prof. Dr. **Hakan KİRACI**
		Animating Seci: Implicit Knowledge Connections and the Rise of AI-Driven, Self-Learning Knowledge Ecosystems - PhD. **Serif Onur YILMAZ**

SESSION CHAIR: Prof.Dr. Amiraslanova DILARA		
17.00 - 18.30	Online Session 8	Shock Asymmetry and Risk Transmission in Pension Navs: Evidence from Romania's Private System - Student **Daniel GUSE** - Prof. Dr. **Cristiana TUDOR** - Student **Aura GIRLOVAN** - Student **Gabriel SAIU**
		Unveiling the Economic and Financial Drivers of Sustainability in Bangladeshi Banks: Insights Using Panel Data Analysis - Assoc. Prof. Dr. **Rejaul KARIM**
		Directions for the Formation of Economic Complexes in the Process of Integration into the World Economy - Assoc.Prof.Dr. **Galandarova UMMUHABIBA**
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		Models of Management of Financial Resources in Inclusive Economic Development - Prof.Dr. **Amiraslanova DILARA**
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		Structural Features and Dynamics of Kazakhstan's External Trade (2004–2024) - Assoc.Prof.Dr. **Mehri Khasanovna VOKHIDOVA** - Asst.Prof.Dr. **Irtaza NAWAZ**

SESSION CHAIR: Prof.Dr. Inga COTOROS		
17.30 - 19.00	Online Session 9	Economic Growth and the Middle-Income Trap: The Critical Role of Human Capital – Prof. Dr. **Dimitar EFTIMOSKI**
		The Development of the Accounting Profession in the Republic of Moldova Through the Prism of Digitalization, Sustainability, and European Integration - Prof.Dr. **Inga COTOROS**
		Unpacking the Savings Puzzle in the Western Balkans: Remittances, Financial Depth, and Macroeconomic Stability - Asst. Prof. Dr. **Ardita BYLO**
		Shifting Shocks and Business Cycle Asymmetries – Res. Asst.Dr. **Yacouba OUATTARA** - Prof.Dr. **Jean-François ROUILLARD**
		Digital Transformation in Mena Banking: Unlocking Efficiency, Innovation, and Sustainable Sectoral Growth - Prof.Dr. **Sufian ABDEL-GADIR**
		The Chinese Debt Trap Diplomacy and Its Implications for African Economies - Asst. Prof. Dr. **Boutkhil GUEMIDE**
		The Relationship between Ethnic Fragmentation and State Weakness: A Case Study on Somalia - Asst. Prof. Dr. **Boutkhil GUEMIDE**
		Demographic Change and Economic Growth in Egypt - Asst.Prof. Dr. **Manar MOHAMED**
		The Role of Territorial Economic Intelligence in Boosting Investment in Developing Countries: A Conceptual Framework - Asst. Prof. Dr. **Oumama BOUABDI**

SESSION CHAIR: Assoc. Prof. Dr. Ezgi DEMIR		
18.15 - 19.45	Online Session 10	Analysis of Marketing Focus in Sustainability Reports: A Content Analysis on the Bist Food Sector - Asst. Prof. Dr. **Ali Erhan ZALLUHOĞLU**
		Leadership and Organizational Flexibility in the Age of Digital Transformation: A Theoretical Evaluation Via Literature Review – PhD. **Kemal HEYBET**
		Analysis of Financial Satisfaction in the Context of Social Position - Asst. Prof. Dr. **Tuğçe KAYAGIL**
		The Relationship between Green Finance, Renewable Energy, and Global Warming: Evidence from Selected G20 Countries - Student **Emine POLAT**
		Digital Leadership in Action: The Interplay of Digital Literacy and Creative Work Climate on Innovative Work Behavior - Student **Saiful ISLAM** - Prof.Dr. **Tarik RAIHAN** - Student **Md. TAREK**
		Inclusive Tourism: Accessibility for People with Disabilities - Student **Marjona AMONOVA** - Asst.Prof.Dr. **Irtaza NAWAZ**
		Cyber Threat Detection and Incident Response Automation with Open Source Tools (Implementation) - Student **İslam YENER** - Assoc. Prof. Dr. **Ezgi DEMIR**
		Enhancing Sustainable Religious Tourism Through Smart Tourism Technologies: Evidence from Heritage Sites in Pakistan - Asst.Prof.Dr. **Irtaza NAWAZ**

14 NOVEMBER 2025, FRIDAY

SESSION CHAIR: Prof. Dr. Cemal ELITAŞ		
10.00 - 11.30	Online Session 11	Greenwashing - Prof. Dr. **Cemal ELITAŞ**
		Detection and Prevention of Cryptocurrency Frauds Using Artificial Intelligence - Assoc. Prof. Dr. **Burhan GÜNAY**
		Mixed Curvature Utility: Concavity for Some Commodities and Convexity for Others - Asst. Prof. Dr. **Umut KESKİN**
		Firm-Level Factors Affecting Stock Prices: The Brics-T Case - Asst. Prof. Dr. **Mehmet AKARÇAY**
		The Effects of Social, Economic, and Institutional Factors on Net Migration: A VAR Analysis Approach – The Case of Turkey - Asst. Prof. Dr. **Zeki YILMAZ** – PhD. **Taleh MAMMADOV**
		Auditing 5.0 - Prof. Dr. **Cemal ELITAŞ** – Student **Zehra DEMIRDAŞ**
		Operating, Financial, and Combined Leverage: A Study on the Bist Automotive Sector - Lec. PhD. **Nazif AYYILDIZ**
		Corporate Water Management and Disclosures: Findings From Cdp Data in Turkey - Lec. PhD. **Rıdvan SEZGİN**

SESSION CHAIR: Prof.Dr. İdil Özlem KOÇ		
10.30 - 12.00	Online Session 12	Estimating Esg Scores of Companies in the Bist Sustainability Index Using Machine Learning Methods – PhD. **Mehmet ATEŞ** - Prof.Dr. **İdil Özlem KOÇ**
		Exploring Corporate Esg Transformation in the Türkiye Insurance Sector - Asst. Prof. Dr.**Yunus BÖLÜKBAŞI**
		Research on Regional Economic Theory and Realistic Transformation Under the Digital Economy - Assoc. Prof. Dr. **Peng XINGE** - Assoc. Prof. Dr. **Zulaykho KADIROVA** - Assoc. Prof. Dr. **Sulkhiya GAZIEVA**
		The Effect of Money Supply on Inflation: Examples From Developing Countries – Lec. **Mehmet Veli KOYUNÇU**
		The Relationship between Green Finance, Renewable Energy, and Global Warming: Evidence From Selected G20 Countries - Student **Emine POLAT** - Assoc. Prof. Dr. **Erkan ALSU**
		Analysis of Cash Flow Profiles of the Businesses in the Scope of the Cash Flow Operations Model: An Application in Borsa Istanbul - Prof.Dr. **Şakir SAKARYA** - Expert **Kazım BOZTAŞ**
		Evaluation of the Green Sukuk Market in Türkiye as a New Debt Instrument - Prof.Dr. **Şakir SAKARYA** - Expert **Bekir ABACI**
		Determinants of the Capital Adequacy Ratio: A Toda–Yamamoto Causality Analysis for the Turkish Banking Sector - Asst. Prof. Dr. **Halit YALÇIN**

Special Session	
	"TURK DUNYASI OZEL OTURUMU"
11.00-13.00	**Assoc. Prof. Dr. Sezer BOZKUŞ KAHYAOĞLU, Asst. PhD. Nurzhan ABISHOV, Prof. Dr. Bobur SOBIROV, Prof. Dr. Jabrayıl VELIYEV, Prof. Dr. Junus GANIEV, Prof. Dr. Razia ABDIEVA, Asst. Prof. Dr. Aynura TURDALIYEVA, Prof. Dr. Hasan Fehmi BAKLACI, Asst. Prof. Dastan ASEINOV** **https://meet.google.com/irk-uixv-idf**

SESSION CHAIR: Prof.Dr. Jaouad RIAD		
11.00 - 12.30	Online Session 13	Ahidous Beyond Folklore: Reclaiming Amazigh Artistic Agency – PhD. **Mbarek Oukhouya ALI**
		The Language of Signs: How Do Ancient Symbols Survive Today Via Media? - Lec. PhD. **Başak ÖZKER**
		Artificial Intelligence Use in Moroccan Academic Writing: A Comparative Study of English Department MA Students at Mohammed V and Hassan II Universities - Prof.Dr. **Abdelkrim MOUAZIZ**
		To Cheat or Not to Cheat: Ensuring Academic Integrity in the Era of Chatgpt - Prof.Dr. **Jaouad RIAD**
		Thematic Evolution Analysis of System Dynamics Studies in the Research Fields of Operations Research, Management Science, and Business Economics - Res. Asst. PhD. **Gülper BASMACI AKTUNA**
		Global Warming? Global Cooling? How Should Countries Prepare for This Process? - Prof.Dr. **Ahmet OĞUZ –** Assoc. Prof. Dr. **Gülçin GÜREŞÇİ**
		Impacts of Artificial Intelligence Applications on Health Systems and Nursing Services from a Health Economics Perspective – Student **Emine Buse KURNAZ** – Asst. Prof. Dr. **Deniz YİĞİT** – Assoc. Prof. Dr. **Emel SEZİCİ**
		A Constructivist Approach to Enhancing Vocabulary Learning and Interaction Through Blooket In Moroccan Efl Classes – PhD. **Ismail ELBYAD**
		University Students' Attitudes Toward Artificial Intelligence: Strategic Approaches in the Digital Transformation Process - Asst. Prof. Dr. **Seda GÖKDEMIR EKICI -** Asst. Prof. Dr. **Mustafa Abdül Metin DINÇER**
SESSION CHAIR: Prof. Dr. Sandeep KUMAR		
11.45 - 13.15	Online Session 14	Technology, Labor, and Growth: An Analysis of Ict-Driven Employment Trends in South Asia - Lec. **Mubasher ALI**
		Influence of Social Media Marketing on Consumer Decision-Making - Prof. Dr. **Sandeep KUMAR**
		AI-Driven Marketing Analytics for Predicting Consumer Trends - Asst. Prof. Dr. **Sweta BAKSHI**
		Overcoming Energy Disequilibrium: A Review of Some Experiences - Prof.Dr. **Saeed RASEKH**I - PhD. **Seyyedeh Soheila Miri LEDARI**
		Lost Added Value of Industries Due to Energy Imbalance in Mazandaran Province, Iran - Prof.Dr. **Saeed RASEKH**I - Student **Roya SAEDI**
		The Role of Organizational Culture in Enhancing Institutional Performance – Asst. Prof. Dr. **Samyiah HANI**
		Examining the Relationship between Psychological Distress, Aggression, Shyness, and Well-Being in Adolescents - **Lec. Metanet ALIEVA**
SESSION CHAIR: Prof. Dr. Yeliz MERT KANTAR		
12.15 - 13.45	Online Session 15	Analyzing Spatial Heterogeneity in Turkish Unemployment Rates: A Geographically Weighted Regression Approach - Asst. Prof. Dr. **İbrahim ARIK** - Prof. Dr. **Yeliz MERT KANTAR**
		Gender and Justice in Supplier–Buyer Relationships - Asst. Prof. Dr. **Nihan ÖZKAN**
		Thematic Evolution in Disassembly Line Balancing Research: Co-Word Analysis - Res. Asst.Dr. **Serkan GENÇ**
		How Much Weight Can A Young Body Carry? Decent Work and Chain Market Workers in Turkey - Assoc. Prof. Dr. **Suzan URGAN** - Assoc. Prof. Dr. **Aysel ÇETİNDERE FİLİZ**
		Animating Seci: Implicit Knowledge Connections and the Rise of Ai-Driven, Self-Learning Knowledge Ecosystems – PhD. **Serif Onur YILMAZ**
		Employment and Career in Tourism - Asst.Prof.Dr. **Hümeyra TAŞÇIOĞLU**
		The Load on the Entrepreneur's Shoulders: Entrepreunerial Loneliness – PhD. **Burcu YİĞİT**
SESSION CHAIR: Assoc. Prof. Dr. Mehmet Vahit EREN		
12.45 - 14.15	Online Session 16	The Relationship between Food Inflation and Renewable Energy Consumption: An Econometric Analysis of the Turkish Economy - Assoc. Prof. Dr. **Mehmet Vahit EREN -** Student **Fatma KARTAL**
		Evaluation of Recreational Hot Water Use in Thermal Hotels in Kütahya in Terms of Sustainability and Economy – Student **Mert TESTERE**
		The Effect of Income Sources on Inequality and Measurement Scales: An Empirical Study Based on Turkish Income and Living Conditions Survey Microdata - Asst. Prof. Dr. **Taylan AKGÜL**
		Examining the Savings, Expenditures and Investments of Individuals in Terms of Sustainability During the Covid-19 Period - Prof. Dr. **Doğan KUTUKIZ** - Assoc. Prof. Dr. **Yakup ÜLKER** - Student **Ebru OKÇU** - Student **Beyaz Simge ÇALIK**
		Assessing Economic Growth Dynamics Through Green Finance and Institutional Quality: A Novel Mmqr Analysis – PhD. **Peter Oluwasegun IGUNNU -** Asst. Prof. Dr**.Mumtaz ALI -** Prof.Dr. **Mehdi SERAJ**
		Econometric Analysis of Human Flight and Brain Drain Determinants: Evidence from the Fragile States Index, 2006–2023 - Asst. Prof. Dr. **Irtaza NAWAZ**
		Economic Fluctuations and Sales Growth: The Role of Foreign Ownership Structure - Asst. Prof. Dr. **Özcan ÖZKAN**
		The Trans-Caspian International Transport Route (Tcitr) in the Context of the Development of the Middle Trade Corridor- Assoc. Prof. Dr. **Afet SEFEROVA**
SESSION CHAIR: Prof. Dr.Hakan ÇELİKKOL		
13.30 - 15.00	Online Session 17	Green Investments and Green Financing – Prof. Dr.**Hakan ÇELİKKOL** – Student **Novia Sari SYAHRİAL**
		Humanitarian and Economic Assessment of Enhancing the Disaster Resilience of Individuals with Special Needs - Assoc. Prof. Dr. **Gülçin GÜREŞÇİ –** Prof.Dr. **Ahmet OĞUZ**
		Financial Inclusion: Introduction and Overview - Asst. Prof. Dr.**Ramzi Abdullah Ahmed HASSAN**
		Causal Relationships between Global Supply Chain Pressure, Bist Transportation Index, and Cds Spreads - PhD. **Dilber DOĞAN** - Lec. **Şenol DOĞAN**
		Order Cost Method in Cost Accounting: Theoretical and Literature Review - Student **Edip İĞDE** - Assoc. Prof. Dr. **Murat KARAHAN**
		Effects Of Exchange Rate Movements on Manufacturing Exports in Relation to Trade Direction and Technology Intensity of Sectors – PhD. **Saharnaz DAMIROVA - Assoc. Prof. Dr. Duygu YOLCU KARADAM**
		The Dynamic Relationship between the Logistics Confidence Index and Firm Performance: An Analysis on Bist 100 - Lec. **Şenol DOĞAN –** Ph. D. **Dilber DOĞAN**
		Optimal Portfolio Selection Using the Social Spider Optimization Algorithm: An Example with Bist30 - Lec. **Safiye TOP**

SESSION CHAIR: Prof. Dr. Arzu AL		
14.00 - 15.30	Online Session 18	Conceptual Stalemate in International Relations: Understanding the Transformation of the Global Order through Traditional Theoretical Perspectives – Prof. Dr. **Arzu AL** – PhD. **Yusuf Girayalp ATAN**
		Online Accountability in Metropolitan Municipalities: An Analytical Assessment - Student **Tuğba AKSAKAL**
		Sustainability and Environmental Audit - Assoc.Prof.Dr. **Ali KESTANE –** PhD. **Luminita DIACONU**
		The Role of Direct and Indirect Carbon Emissions on Business Strategies - **Aramish Altaf - Minza Mudassar**
		Digital Resilience And Economic Losses During Covid-19: Evidence From Transition Economies - Assoc. Prof. Dr. **Junus GANIEV** - Asst. Prof. Dr. **Dastan ASEINOV**
		Role of Municipalities in Solving Housing Problem among Slovakia's Marginalized Roma Communities – Transitional Housing As A Viable Option? – Asst. Prof. Dr. **Leon RICHVALSKY**
		The Development of Public Corruption at Macroeconomic Level in Eastern European Countries – Ph. D. **Georgios TAVELLARIS** - Assoc. Prof. Dr. **Vasileios VLACHOS**
		The Struggle of South Azerbaijani Turks from the Perspective of Social Movement Theory - Assoc. Prof. Dr. **Seçil ÖZDEMIR**

SESSION CHAIR: Prof. Dr. Lachin ABISHLI		
14.30 - 16.00	Online Session 19	Economic Opportunities and Risks of Building A Nuclear Power Plant in Kazakhstan - Assoc.Prof.Dr. **Ainur SAPAROVA** - Student **Albina IMANBAY**
		The Monetary Aspect in the Foreign Policy of Modern States - Assoc. Prof. Dr. **Mehriban BABAZADE**
		The Role of Direct and Indirect Carbon Emissions on Business Strategies - Lec. **Aramish Altaf ALVI**
		The Nexus between Corporate Governance Attributes, Financial Performance, and Earnings Managemnet: Emperical Evidence from Private Banks in Ethiopia - Asst.Prof.Dr. **Belesti WODAJE**
		Sustainability-Driven Marketing and Financial Dynamics in Consumer Decision-Making for Organic Products - Student **Filip TASKOVSKI** - Student **Teodora Siljanoska TASKOVSKA** - Prof.Dr. **Julijana SILJANOSKA**
		Harnessing the Power of AI to Enhance Risk Monitoring and Default Prediction in the Financial System - Prof. Dr. **Alexandru MONAHOV**
		Reforming Institutions for Fiscal Resilience: Global Insights into Debt Sustainability - Student **Qurat ul AIN**
		Cyclical Nature of Economic Development: From Classical Concepts to Modern Models – Lec. **Elmar DADASHOV** - Prof.Dr. **Lachin ABISHLI**

SESSION CHAIR: Assoc. Prof. Dr. Sezer Bozkuş KAHYAOĞLU		
15.15 - 16.45	Online Session 20	An Examination of the Relationship between Framing Effect and Source Credibility – Assoc. Prof. Dr. **Serpil SUMER ADIN**
		Readability Level of Law No. 6183 from the Perspective of Tax Complexity - Assoc. Prof. Dr. **Cem Barlas ARSLAN**
		The Impact of Not Applying Inflation Adjustment in Interim Periods on Defered Tax Measurement: An Evaluation of Entities with Non-Tl Functional Currencies – Ph.D. **Süleyman Özkan KAYAGIL**
		Quality of Life in Eskişehir: Spatial Analysis and Development of A New Index - Student **Eray KOÇ -** Prof. Dr. **Yeliz MERT KANTAR**
		The Web 2.5 Economy – PhD. **Nikos ASTROULAKIS**
		Examining The Relationship between Digitalization and Inflation: The Case of the Turkish Banking Sector - Res. Asst. **İlknur KÜLEKÇI -** Assoc. Prof. Dr. **Ayşegül ERTUĞRUL**
		Digital Financial Inclusion and the Ease of Doing Business: Evidence from Kyrgyzstan - Asst. Prof. Dr. **Ainura TURDALIEVA -** Assoc. Prof. Dr. **Sezer Bozkuş KAHYAOĞLU**

SESSION CHAIR: Prof. Dr. Ayyub KERIMOV		
15.45 - 17.15	Online Session 21	Assessing the Interplay of Financial Development, Human Capital, Democracy, and Industry 5.0 In Environmental Dynamics – Student **Mahvish MUZAFFAR**
		Analyzing the Role of Management Accounting in Advancing Production Development and Enhancing the Economic Competitiveness of Azerbaijan - Assoc. Prof. Dr. **Payam Pirayesh SHIRAZI**
		Social Justice and Ethical Responsibility: Modern Interpretation of Philosophical Concepts - Prof. Dr. **Ayyub KERIMOV**
		The Ukrainian Pension System Reconstruction after the War – PhD. **Olga TOFANIUK**
		Cost Management Framework for Railway Construction Projects in Kazakhstan: An Integrated Analytic Hierarchy Process and Regression Analysis Approach - Student **Nurzhan MURATBEK**
		National and European Public Strategies and Policies on Active Aging - Lec. **Mihaela-Corina BUCUR**
		The Impact of Territorial Integrity Policy on the Development of Geopolitics - Assoc. Prof. Dr. **Nergiz MEMMEDZADE**
		The Monetary Aspect in the Foreign Policy of Modern States - Assoc.Prof.Dr. **Mehriban BABAZADE**

SESSION CHAIR: Assoc. Prof. Dr. Neriman YALÇIN		
16.15 - 17.45	Online Session 22	Evaluation of Priority Sustainability Issues in Eco Countries from an Accounting Perspective – Student **Merve VAYSAL**
		Understanding Generational Perceptions of Netflix'S Content Recommendation System: Transparency, Trust, and Brand Attachment - Asst. Prof. Dr. **Burçak BAŞAK YİĞİT** - Assoc. Prof. Dr. **Semih OKUTAN**
		The Role of Technology in Improving Tax Administration in Nigeria - **Iyke-Nzeh Bibian Ifeyinwa Nee MBAH**
		From Authenticity to Loyalty: How Consumers Perceive AI-Generated Brand Posts and Their Impact on Ewom Intentions – Asst. Prof. Dr. **Burçak BAŞAK YİĞİT –** Assoc. Prof. Dr. **Semih OKUTAN**
		Government Accounting Standards: Review of the Financial Statement Presentation Standard (Gas 1) - Student **Uğur İBİŞ**
		Accessing the Cyber Safety Concerns and E-Commerce Adoption in Developing Nations: Cultural Dynamics Shaping Technology Adoption - Prof.Dr. **Najabat ALI** - Asst. Prof. Dr. **Shahbaz TARIQ** - Lec. PhD. **Muhammad Nauman SADIQ**
		The Transformation of the Accounting Information: Costs and Next-Generation Information Dynamics - Asst. Prof. Dr. **İlker GÜLENÇER**
		The Relationship between External Debt and Economic Freedom: An Empirical Analysis on Asian Countries - Res. Asst. Dr. **Ali Fuat URUŞ –** PhD. **Fadime Ayça CEYLAN**

SESSION CHAIR: Asst. Prof. Dr. Aribah ASLAM - Assoc. Prof. Dr. Dr. Ghulam GHOUSE		
17.00 - 18.30	Online Session 23	Exploring the Mediation of Firm Size and Moderation By Analyst Coverage and Institutional Ownership on Business Strategy Decisions - Asst. Prof. Dr. **Aribah ASLAM** - Lec. **Mubasher ALI** - Assoc. Prof. Dr. **Ghulam GHOUSE**
		Economic Growth Through Public Health Investments: South Asia's Perspective - Lec. **Mubasher ALI -** Asst. Prof. Dr. **Aribah ASLAM -** Assoc. Prof. Dr. **Ghulam GHOUSE**
		Technology, Labor, and Growth: An Analysis of ICT-Driven Employment Trends in South Asia - Lec. **Mubasher ALI -** Asst. Prof. Dr. **Aribah ASLAM**
		Do Unconditional Cash Transfers Motivate Women to Become More Financially Included? - Lec. **Nafees EJAZ** - Asst. Prof. Dr. **Aribah ASLAM -** Assoc. Prof. Dr. **Ghulam GHOUSE**
		The Dual Impact of Artificial Intelligence: Stressor or Support? - Assoc. Prof. Dr. **Ghulam GHOUSE -** Asst. Prof. Dr. **Aribah ASLAM**
		Reforming Institutions for Fiscal Resilience: Global Insights into Debt Sustainability - **Qurat-Ul AIN - Zunaira KHALID** - Asst. Prof. Dr. **Aribah ASLAM**
		Understanding AI-Induced Anxiety: The Role of Peer Influence and Mental Well-being - **Roheena Abid BAIG -** Asst. Prof. Dr. **Aribah ASLAM**
		The Impact of Institutional Quality on Public Debt Sustainability in the Digital Era - **Qurat-Ul AIN - Zunaira KHALID** - Asst. Prof. Dr. **Aribah ASLAM**
		Examining the Interrelationship between Artificial Intelligence Adoption, Mental Health, and Academic Performance among Students: Evidence From a Structural Equation Modelling Approach - Lec. **Nafees EJAZ -** Res. Asst. **Rohina Abid BAIG -** Asst. Prof. Dr. **Aribah ASLAM**

SESSION CHAIR : Assoc. Prof. Dr. Rejaul KARIM		
17.30 - 19.00	Online Session 24	Ecological Expertise and Environmental Impact Assessment (EIA) in Contemporary Environmental Law – PhD. **Luminita DIACONU**
		The Role of Culture in Shaping Trade Dynamics in South Asia – Student **Hamaad YOUSUF**
		"Does Green Lending Really Matter to Profitability and Default Probability in Bangladeshi Banks?" - Assoc. Prof. Dr. **Rakibul ISLAM** - Student **Md. Mehedi HASAN** - Assoc. Prof. Dr. **Rejaul KARIM**
		Identifying Critical Success Factors for Adopting Sustainable Tourism in Emerging Economies - Lec. **Md. Soleman MOLLIK** - Assoc. Prof. Dr. **Rejaul KARIM -** Res. Asst. **Sumon MAHMUD**
		A Systematic Review of the Literature on Corporate Income Tax Avoidance and the Fiscal Implications of Base Erosion and Profit Shifting: Insights from Country-Level Data Estimates - Asst. Prof. Dr. **Vasileios VLACHOS** - Res. Asst. **Athanasios VASILAKIS**
		Structural Inequalities and the Single Agricultural Policy of Agricultural Aid in the European Union: A Comparative Analysis of the Control Mechanisms of Eurozone Countries with Emphasis on Greece - Student **Matthioudakis MICHAIL**
		Shock Resilience of Ukraine'S Banking Sector: A Bayesian Dynamic Modeling Approach - Prof. Dr. **Marianna KICHURCHAK** - Prof. Dr. **Iryna PASLAVSKA**
		An Analysis of Consumption Pattern of the Habitants of Chawinda, District Sialkot - Student **Moazzam BUTT**

SESSION CHAIR: Assoc. Prof. Dr. İsmail AKTAR		
18.00 - 19.30	Online Session 25	Psychological Violence in the Workplace: The Meaning and Effects of Mobbing – PhD. **Burak Efe BAHADIR**
		The Role of Innovation Clusters in International Value Chains – PhD. **Aghasif ABDULLAYEV**
		Assessment of Students' Leadership Skills and Development Perspectives - Lec.PhD. **Tunzala MUSAYEVA**
		Thriving in Academia: Psychological Capital and Psychological Distress in Malaysian Universities - Student **Nur Amalyna RADZALI** - Assoc.Prof.Dr. **R Zirwatul Aida R IBRAHIM**
		The Trans-Caspian International Transport Route (Tcitr) in the Context of the Development of the Middle Trade Corridor - Assoc. Prof. Dr. **Afet SEFEROVA**
		Energy and Foreign Policy Opportunities between Türkiye and the Shanghai Cooperation Organization – Assoc. Prof. Dr. **İsmail AKTAR**
		Dual-Mode Approach in Employee Competency Management: Adaptive Task Assignment Based on Learning and Production Goals – Res. Asst. **Buğra AYAN –** Res. Asst. **Sinem SINANGIL**
		Psychodermatology and Mindfulness: A Review of Bidirectional Links between Skin and Mental Health - Res. Asst. PhD. **Vanshika KOHLI**

SESSION CHAIR: Assoc. Prof. Dr. Nüket KIRCI ÇEVİK		
18.45 - 20.15	Online Session 26	Fairness, Sharing, and Institutional Learning among Public Finance Students: An Experimental Ultimatum Game Analysis - Assoc. Prof. Dr. **Yıldırım Beyazıt ÇIÇEN**
		Employers' New Generation Unionism Approach in Digitalized Labor Relations - PhD. **Elif Özge GÜRDAL -** Asst. Prof. Dr. **Yavuz Selim Kaymaz**
		An Empirical Evaluation of the Purchasing Power Parity: The Case of Scandinavian Countries - Asst. Prof. Dr. **Süreyya KOVACI**
		The Relationship between Geopolitical Risk and Airline Stock Prices - Assoc. Prof. Dr. **Nüket KIRCI ÇEVİK** - Asst. Prof. Dr. **Buket KIRCI ALTINKESKİ**
		Comparing the Authoritarian Regimes of Egypt and Belarus - Asst. Prof. Dr. **Çağdaş ZARPLI -** Student **Dilara GÜNDUĞ**
		The Impact of Oil Prices on Airline Stock Prices - Asst. Prof. Dr. **Buket KIRCI ALTINKESKİ**
		The Relationship between Energy Consumption and Economic Growth in OIC Member Countries - Student **Aigerim GAIBULLAYEVA** - Assoc. Prof. Dr. **Füsun ÇELEBI BOZ**
		Universal Basic Income and the Restructuring of the Social Security System in Turkey: A Conceptual Framework - Lec. PhD. **Ubeydullah ŞENER**

SESSION CHAIR: PhD. Luminita DIACONU		
19.15 - 20.45	Online Session 27	Ecological Expertise and Environmental Impact Assessment (EIA) in Contemporary Environmental Law – PhD. **Luminita DIACONU**
		When Government Becomes Smart: Opportunities and Risks of Artificial Intelligence in Public Administration – Student **Tiago SANTOS**
		The Role of Culture in Shaping Trade Dynamics in South Asia – Student **Hamaad YOUSUF**
		Strategic Importance of the Organization of Turkish States in the Multipolar World Order - PhD. **Faiqa Nabiyeva**
		Bridging Digital Innovation and Growth: Global Evidence on Oss and Fintech Adoption- Student **Amjad HASSAN**
		The Value Relevance Of R&D And Intangible Assets in Technology Companies in the New Economy Era - Student **Bertrando MATTHEW** - Prof.Dr. **Dedhy SULISTIAWAN** - Prof. Dr. **Felizia Arni RUDIAWARNI** - Prof.Dr. Dan **Ioan TOPOR**
		Psychological Capital and Psychological Well-Being in Academic Staff at Public Universities - Student **Nur Amalyna RADZALI** - Assoc.Prof.Dr. **R Zirwatul Aida R IBRAHIM**
		Quality Costs in Higher Education Institutions: The Case of Kilis 7 Aralık University – Assoc. Dr. **Ali KESTANE** – Prof. Dr. **Mehmet Ali YILDIRIM**
		The Role of Youth Leadership in Management and Organization Processes: A Perspective on Participatory Sustainability and Regional Transformation – Student **Hatice Tuğçe YESIL**

SESSION CHAIR: Assoc. Prof. Dr. Hakan ARIDEMIR		
20.00 - 21.30	Online Session 28	Comparative Perspectives on Financial Reporting Standards for Nonprofit Organizations and Small and Micro Enterprises -**PhD Ümran Bulut SU**
		A Strategic Corridor from The Adriatic to The Black Sea: Corridor Viii and Balkan Geopolitics-**Assoc. Prof. Dr. Hakan ARIDEMIR**
		The Legal Status of Israeli Settlers Under International Humanitarian Law-**Asst. Prof. Dr. Ramazan GÜREŞCI**
		The Impact of Digital Transformation in Higher Education: A Comparative Analysis between Turkey and Oecd Countries – Lec. PhD. **Eren AKDAĞ KURNAZ**
		The Use of Artificial Intelligence in Preventing Financial Information Manipulation: An Application in the Banking Sector – Assoc. Prof. Dr. **Ali KESTANE** – Student **Gürkan CAN**
		The Analysis of the Relationship between Inflation and Interest Rates – Prof. Dr. **Adil AKINCI**

Number	Names of Participants from Türkiye	Number	Names of Participants from Türkiye
1	Prof.Dr. Adil AKINCI	79	Asst.Prof.Dr. Tuğçe KAYAGİL
2	Prof.Dr. Ahmet OĞUZ	80	Asst.Prof.Dr. Umut KESKİN
3	Prof.Dr. Arzu AL	81	Asst.Prof.Dr. Ümit ACAR
4	Prof.Dr. Aydın KAYABAŞI	82	Asst.Prof.Dr. Yavuz Selim KAYMAZ
5	Prof.Dr. Bahar ERDAL	83	Asst.Prof.Dr. Yunus BÖLÜKBAŞI
6	Prof.Dr. Cemal ELİTAŞ	84	Asst.Prof.Dr. Zeki YILMAZ
7	Prof.Dr. DOĞAN KUTUKIZ	85	Expert Bekir ABACI
8	Prof.Dr. Gülnur KEÇEK	86	Expert İbrahim Halil ER
9	Prof.Dr. Hakan ÇELİKKOL	87	Expert Kazım BOZTAŞ
10	Prof.Dr. İdil Özlem KOÇ	88	Expert Sıddık BADILLI
11	Prof.Dr. İsa İPÇİOĞLU	89	Lec. Mehmet Veli KOYUNÇU
12	Prof. Dr. Niyazi KURNAZ	90	Lec. Safiye TOP
13	Prof.Dr. Şakir SAKARYA	91	Lec. Şenol DOĞAN
14	Prof.Dr. Yeliz MERT KANTAR	92	Lec.PhD. Başak ÖZKER
15	Prof.Dr. Yusuf GÜMÜŞ	93	Lec.PhD. Eren AKDAĞ KURNAZ
16	Assoc.Prof.Dr. Ali KESTANE	94	Lec.PhD. Nazif AYYILDIZ
17	Assoc.Prof.Dr. Aysel ÇETİNDERE FİLİZ	95	Lec.PhD. Ömer KESKİN
18	Assoc.Prof.Dr. Ayşegül ERTUĞRUL	96	Lec.PhD. Rıdvan SEZGİN
19	Assoc.Prof.Dr. BURHAN GÜNAY	97	Lec.PhD. Zeliha OKÇU
20	Assoc.Prof.Dr. CEM BARLAS ARSLAN	98	PhD. Burak Efe BAHADIR
21	Assoc.Prof.Dr. Duygu YOLCU KARADAM	99	PhD. Çağdaş ZARPLI
22	Assoc.Prof.Dr. Emel SEZİCİ	100	PhD. Dilber DOĞAN
23	Assoc.Prof.Dr. ERKAN ALSU	101	PhD. Elif Özge GÜRDAL
24	Assoc.Prof.Dr. Ezgi DEMİR	102	PhD. Erhan VICIL
25	Assoc.Prof.Dr. Fatih VAROL	103	PhD. Fadime Ayca CEYLAN
26	Assoc.Prof.Dr. Füsun ÇELEBİ BOZ	104	PhD. Hamit CAN
27	Assoc.Prof.Dr. Gülçin GÜREŞÇİ	105	PhD. İrem GÜNEŞ
28	Assoc.Prof.Dr. Hakan KİRACI	106	PhD. Mehmet ATEŞ
29	Assoc.Prof.Dr. İsmail AKTAR	107	PhD. Özcan KARATAY
30	Assoc.Prof.Dr. Kader AYDIN	108	PhD. Saharnaz DAMIROVA
31	Assoc.Prof.Dr. Mediha Mine ÇELİKKOL	109	PhD. Süleyman Özkan KAYAGİL
32	Assoc.Prof.Dr. Mehmet Vahit EREN	110	PhD. Taleh MAMMADOV
33	Assoc.Prof.Dr. Meltem OKUR DİNÇSOY	111	PhD. Yusuf Girayalp ATAN
34	Assoc.Prof.Dr. Murat KARAHAN	112	PhD. Yusuf YILDIRIM
35	Assoc.Prof.Dr. Mustafa Alpin GÜLŞEN	113	Res.Asst. Buğra AYAN
36	Assoc.Prof.Dr. Neriman YALÇIN	114	Res.Asst. İlknur KÜLEKÇİ
37	Assoc.Prof.Dr. Nüket KIRCI ÇEVİK	115	Res.Asst. Sinem SİNANGİL
38	Assoc.Prof.Dr. Resül YAZICI	116	Res.Asst. Tolga ALTINTAŞ
39	Assoc.Prof.Dr. Seçil ÖZDEMİR	117	Res.Asst. Ümit GEZİCİ
40	Assoc.Prof.Dr. Semih OKUTAN	118	Res.Asst.PhD. Ali Fuat URUŞ
41	Assoc.Prof.Dr. Semra ALTINGÖZ ZARPLI	119	Res.Asst.PhD. Gülper BASMACI AKTUNA
42	Assoc.Prof.Dr. Serpil SUMER ADİN	120	Res.Asst.PhD. Serkan GENÇ
43	Assoc.Prof.Dr. Sezer Bozkuş KAHYAOĞLU	121	Student Ahmet TAŞKIN
44	Assoc.Prof.Dr. Suzan URGAN	122	Student Aigerim GAİBULLAYEVA
45	Assoc.Prof.Dr. YAKUP ÜLKER	123	Student Arif Ali CAN
46	Assoc.Prof.Dr. Yıldırım Beyazıt ÇİÇEN	124	Student Ayşe SANCAR
47	Assoc.Prof.Dr. Yunus DÜGER	125	Student Beyaz Simge ÇALIK
48	Asst.Prof.Dr. Deniz YİĞİT	126	Student Dilara GÜNDUĞ
49	Asst.Prof.Dr. Ali Erhan ZALLUHOĞLU	127	Student Ebru OKÇU
50	Asst.Prof.Dr. Ali ÖZBEK	128	Student Ecrin ŞARK
51	Asst.Prof.Dr. Ali ÜNAL	129	Student EDİP İĞDE
52	Asst.Prof.Dr. Ayşe TAŞ	130	Student Elif Gökçe DEMEZ
53	Asst.Prof.Dr. Buket KIRCI ALTINKESKİ	131	Student Emine Buse KURNAZ
54	Asst.Prof.Dr. Burçak BAŞAK YİĞİT	132	Student Emine POLAT
55	Asst.Prof.Dr. Esra ULUKÖK	133	Student Eray KOÇ
56	Asst.Prof.Dr. Ferit KARAHAN	134	Student Fatma KARTAL
57	Asst.Prof.Dr. Figen YILDIRIM	135	Student Gürkan CAN
58	Asst.Prof.Dr. Halit YALÇIN	136	Student Hatice Tuğçe YESİL
59	Asst.Prof.Dr. Hatice ALTINOK	137	Student İslam YENER
60	Asst.Prof.Dr. Hümeyra TAŞÇIOĞLU	138	Student Kader ARMAĞAN
61	Asst.Prof.Dr. İbrahim ARIK	139	Student Mert TESTERE
62	Asst.Prof.Dr. İbrahim OLGUN	140	Student Merve VAYSAL
63	Asst.Prof.Dr. İLKER GÜLENÇER	141	Student Nazrin OĞUZ
64	Asst.Prof.Dr. Kadir Kürşat YILMAZ	142	Student Nur Nida YILMAZ TEMİZ
65	Asst.Prof.Dr. Mehmet AKARÇAY	143	Student TUGBA AKSAKAL
66	Asst.Prof.Dr. Mehmet Murat AKTAŞ	144	Student Tuhfe ÇELİKKOL
67	Asst.Prof.Dr. Meryem USLU	145	Student UĞUR İBİŞ
68	Asst.Prof.Dr. Metin ALLAHVERDİ	146	Student Zehra DEMİRDAŞ
69	Asst.Prof.Dr. Mustafa Abdül Metin DİNÇER	147	Hakan ARIDEMİR
70	Asst.Prof.Dr. Nihan ÖZKAN	148	Ramazan GÜREŞÇİ
71	Asst.Prof.Dr. Nurgül ERDAL	149	Ümran Bulut SU
72	Asst.Prof.Dr. Özcan ÖZKAN		
73	Asst.Prof.Dr. Özgül UYAN		
74	Asst.Prof.Dr. Sabiha OLTULULAR		
75	Asst.Prof.Dr. Seda Gökdemir EKİCİ		
76	Asst.Prof.Dr. Selin Zengin TAŞDEMİR		
77	Asst.Prof.Dr. Süreyya KOVACI		
78	Asst.Prof.Dr. Taylan AKGÜL		

Number	Names of Participants from Outside of Türkiye	Number	Names of Participants from Outside of Türkiye
1	Prof. Dr. Azhar Neama ABUGNUM	101	Lec. Ali BABAYEV
2	Prof.Dr. Abdelkrim MOUAZIZ	102	Lec. Aramish Altaf ALVI
3	Prof.Dr. Elçin ABISHLI	103	Lec. Aytan GURBANOVA
4	Prof.Dr. Alexandru MONAHOV	104	Lec. Azar MURADZADA
5	Prof.Dr. Amiraslanova DILARA	105	Lec. Bahtiyor ISMOYILOV
6	Prof.Dr. Ayyub KERIMOV	106	Lec. Elmar DADASHOV
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8	Prof.Dr. Dan Ioan TOPOR	108	Lec. Gulgun QULIYEVA
9	Prof.Dr. Dedhy SULISTIAWAN	109	Lec. Khadija ZEYNALLI
10	Prof.Dr. Denys ILNYTSKYY	110	Lec. Mahliyo ISMOYILOVA
11	Prof.Dr. Dimitar EFTIMOSKI	111	Lec. Md. Soleman MOLLIK
12	Prof.Dr. Dinmukhamed KELESBAYEV	112	Lec. Metanet ALIEVA
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14	Prof.Dr. Hanna DAVYDENKO	114	Lec. Mubasher ALI
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Bulgaria	1
China	1
Canada	2
Ethiopia	1
Egypt	1
Georgia	1
Greece	7
India	5
Indonesia	3
Iraq	4
Ireland	1
Iran	4
Kazakhstan	4
Kyrgyzstan	4
Malaysia	11
Moldova	4
Morocco	4
Nigeria	6
North Macedonia	4
Pakistan	19
Portugal	1
Romania	7
Slovakia	1
Sudan	1
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Abstract

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INTRODUCTION

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MATERIALS AND METHODS

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THEMATIC EVOLUTION ANALYSIS OF SYSTEM DYNAMICS STUDIES IN THE RESEARCH FIELDS OF OPERATIONS RESEARCH, MANAGEMENT SCIENCE, AND BUSINESS ECONOMICS

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Abstract

Linear, static models are inadequate in modeling the interactions of dynamic and complex elements of systems consisting of interacting elements. Accordingly, in order to model such systems, an approach that can reflect the dynamic structure into the model was needed. Advances in information processing technology, increased experience in computer simulation, a better understanding of strategic decision-making and the importance of feedback in complex systems have further increased this need. As a result of this increasing need, the "System Dynamics Approach" was introduced to the simulation modeling literature by Jay Forrester in the 1950s. "System Dynamics" is a dynamically structured simulation modeling approach that examines the development of the components and relationships that affect the behavior of a system over time. System dynamics models aim to mimic the real-world system by modeling the mathematical, logical and symbolic relationships between the elements that make up the simulated system. From the 1950s to the present, system dynamics; Operations Research has been adopted in the research fields of Management Science and Business Economics and has found a place in the literature with various themes. The aim of this study is to holistically present the historical development of the concept of "System Dynamics" in the research fields of "Operations Research," "Management Science," and "Business Economics," which can be filtered as "application area" in Web of Science, to analyze its thematic evolution and to reveal trends in the literature. Data obtained from the Web of Science Core Collection database were collected through a query containing different spellings of the concept of "System Dynamics." Due to the frequent use of "System Dynamics" in different disciplines, the analysis was limited to the research fields of "Operations Research," "Management Science," and "Business Economics." Data obtained from the query were analyzed by year using VOSviewer software. Co-occurrence networks based on author keywords were created in the analysis, visualizing the thematic evolution of the concept across different periods. As a result of the study, the thematic orientation of "System Dynamics" in the research areas of "Operations Research", "Management Science" and "Business Economics" over time and future research trends were revealed.

Keywords: System Dynamics, Thematic Evolution Analysis, Operations Research and Management Science, Business Economics

INTRODUCTION

Modeling techniques with linear and static properties are inadequate for modeling dynamic and complex systems (Lane, 2007). Traditional linear analytical system modeling tools are insufficient for modeling systems with feedback loops, temporal delays, and flux. Models in the real world are often nonlinear and multi-element. System dynamics modeling is much more successful in modeling systems with this structure holistically (Martinez- Moyano, 2018).

As a modeling technique, System Dynamics (SD) examines the nonlinear relationship between the interactions of system elements over time (Naugle, 2024). Accordingly, SD models are defined as a technique to design the systems mathematically, logically, and symbolically to mimic the real world (Wolak & Johansson, 2019). This technique considers the system itself holistically (Sani, 2017). Also, this modeling technique reveals the future consequences of the system by utilizing computer-aided simulations. Scenario analyses can be performed by changing model parameters via computer (Şenaras, 2022).

Advances in information processing technology, increased experience with computer simulations, a better understanding of strategic decision-making, and the importance of feedback in complex systems have further increased the need for SD. As a result of this growing need, in the 1950s, Jay Forrester introduced the "System Dynamics Approach" to the simulation modeling literature as a computer-aided modeling approach that can be used in policy analysis, based on circular causality, with feedback loops that can be used in understanding complex social systems (Richardson, 1991). In the studies where the concept was first introduced to the literature by Forrester, the concept was expressed with the following four features (Forrester, 1961);

- There is information feedback in the system,
- It uses decision-making processes as input,
- Approaches complex systems from an experimental perspective,
- It utilizes computer technology to mathematically model the real world.

Managers, who play the role of decision-maker in complex real-world problems, are unlikely to intuitively foresee the likely outcomes of the complex systems. SD actually allows decision-makers to be prepared for possible scenarios by visualizing feedback and nonlinear relationships. Thus, managers can evaluate the interactions of system elements within a cause-and-effect framework and foresee the medium and long-term consequences of their policies, enabling them to develop better strategies (Gonçalves, 2008). Thanks to the inherent ability to simulate the future, system behavior over time can be observed and business processes can be considered from a broader perspective (Proper et al., 2024). Furthermore, by allowing all system stakeholders to participate in the modeling process, it allows sustainable management of complex systems (Mirchi et al., 2012). The development of SD models consists of five stages. These stages are defined as follows (Sterman, 2000):

- problem definition,
- development of dynamic hypothesis and causal loop diagram,

- creation of stock-flow model and calibration of model parameters,
- evaluation of the model with historical data,
- analysis of model results.

SD was first used outside of academia. However, with the academic world's interest in SD models, the method began to find its place in academic journals. SD was first adopted by operations research, which emerged after World War II (Forrester, 2007). Subsequently, the SD literature has experienced a significant increase in both the number of publications, the diversity of topics, and the discipline in which it is adopted. This rapid development in the SD literature highlights the need to examine and systematically address the thematic structure and evolution of this model and technique.

When the historical development of simulation models is examined, it is revealed that significant leaps have been made. As seen in Figure 1, Mourtzis 2020 examines the history of simulation under five main categories: the pre-computer era, formation, expansion, consolidation, integrated environments, and the digital era. The latest phase of this classification includes hybrid simulation, digital twins, the Internet of Things (IoT), and artificial intelligence integration. SD has evolved thematically along with this historical evolution; it has ceased to be a powerful modeling technique used solely in operations research and has become a significant paradigm in the history of simulation. Therefore, analyzing SD's thematic evolution also gains importance in terms of its place in the history of simulation.

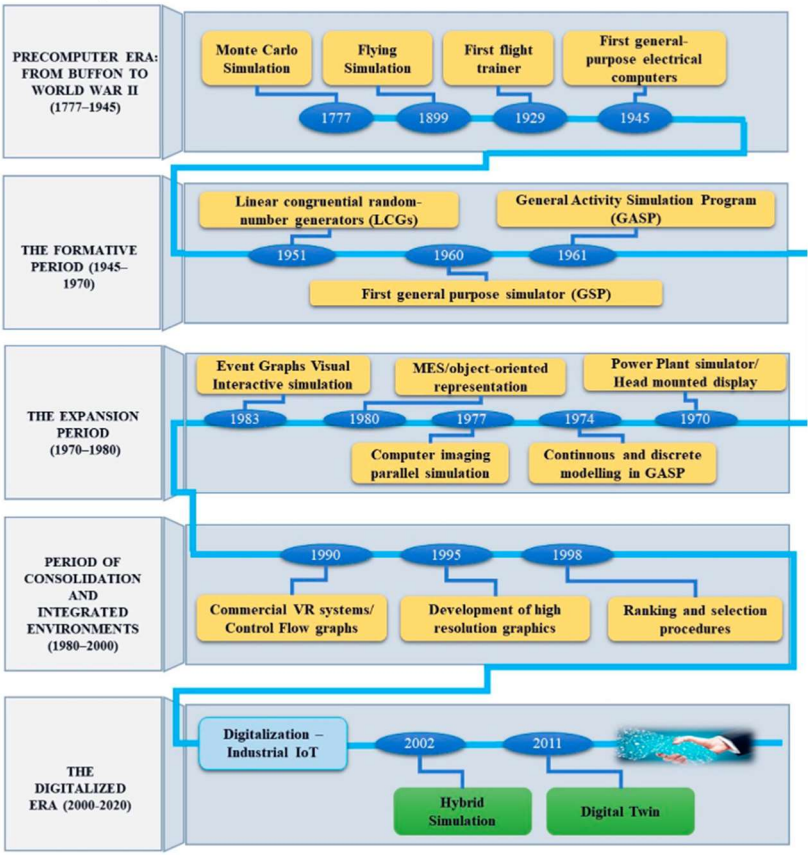


Figure 1: Historical Development of Simulation Modeling

From the 1950s to the present, SD has been adopted in the research fields of operations research, management science, and business economics, and has been studied in various themes in literature. The purpose of this study is to comprehensively present the historical thematic evolution of "System Dynamics" in the research fields of "Operations Research" "Management Science" and "Business Economics" which can be filtered as "application areas" in the Web of Science Core Collection, and to reveal new thematic trends in the SD literature.

MATERIALS AND METHODS

Due to the rapid pace of technological advances, analytical examination of the production of knowledge in scientific research and its relationship with other collective knowledge sources is crucial. In response to this need, thematic evolution analysis emerges as an analytical method that examines the evolution of research themes over time. Examining the temporal evolution of keywords used in a scientific field not only reveals the evolution of the relevant scientific field from past to present, but also sheds light on the potential future directions of the research field.

Thematic evolution analysis is a sub-branch of bibliometric analysis. Bibliometric analysis is a type of analytical analysis that uses large data sets to examine academic literature (Cobo et al., 2011). Bibliometric analysis is a statistical technique used to evaluate data obtained from different types of publications, such as scientific journals, books, conference proceedings, compilations, and other related documents. This technique first emerged in information science. The method is widely used to

reveal the importance of themes in the field to which it is applied, prominent journals and organizations, country contributions, most cited academics, and collaborating authors (Laengle et al. 2018). This type of analysis is used to reveal the connections between academic studies (Janmaijaya et al. 2021). Through bibliometric analysis, dominant themes in the literature related to a research area can be revealed (Martínez et al., 2014).
Thematic analysis is used to identify the main and subthematic areas of the research field under investigation (Ali et al. 2020). Thematic evolution analysis, on the other hand, is an analysis technique that demonstrates the change in thematic analysis over time. Thematic evolution analysis, used as a sub-division of bibliometric analysis, utilizes co-occurence analysis. In co-occurence analysis, keywords are examined through their connections to other keywords (Callon et al., 1991).
In this study, thematic evolution analysis, a bibliometric analysis technique, was used to monitor and analyze thematic changes over time in the SD literature within the research fields of "Operations Research," "Management Science," and "Business Economics," and to predict its future thematic direction. The analysis was conducted using Vosviewer software. The data source for the study was the Web of Science Core Collection. The Web of Science Core Collection was selected to analyze high-impact academic studies. The study used a research field filter of "Operations Research, Management Science, and Business Economics" to narrow down the field of study. Data were obtained through a query that included possible alternative expressions and misspellings of the concept of "system dynamics". The query used was "TS=((" system dynamics " OR " systems dynamics " OR " system dynamic *" OR " system-dynamics " OR " system dynamics simulation " OR " systems dynamics simulation " OR " system dynamics modeling " OR " systems dynamics modeling " OR " system dynamics modeling " OR " causal loop " OR " stock-flow " OR " feedback structure ")) AND WC=("Operations Research & Management Science " OR "Business" OR "Management").
As the result of the query, 5,542 academic studies were reached to be analyzed. The 5,542 academic studies obtained from the query were divided into periods according to the timeline in the historical development of simulation proposed by Mourtzis (2020). In his study, Mourtzis defined the years 1980-2000 as the "Period of Consolidation," as seen in Figure 1. This period represents the early adaptation phase of the simulation. Computer technology was still developing, and SD was also newly adopted during this period. Therefore, the first period in the thematic evolution analysis was determined as "1980-2000". The subsequent periods were analyzed in a total of five periods with 5-year intervals: 2001-2005, 2006-2010, 2011-2015, 2016-2020, and 2021-2025. This periodization allows us to reveal the thematic transformation of SD from its early-stage adoption to its adaptation to today's technology through co-occurrence analysis.
Before examining the thematic evolution of SD through co-word analysis, a separate thesaurus file was created for each period. This prevented words with the same meaning or that were considered different keywords due to spelling errors.
After downloading the data from the Web of Science Core Collection within the specified periods, analysis was conducted in Vosviewer package program for each period. Full counting was the preferred counting method for co-occurrence analysis. Because each keyword is equally important for SD in the thematic evolution of the scientific field. For each analyzed period, the "minimum number of occurrences" was set between 2 to 7, allowing for 40-50 keywords to be identified within the period under study. Thus, it was ensured that there were sufficient number of keywords for each period in terms of detail and interpretability.

FINDINGS

In this study, the thematic evolution analysis of SD studies was conducted in six periods: 1980-2000, 2001–2005, 2006–2010, 2011–2015, 2016–2020, and 2021–2025. The findings for these periods are as follows:

1980–2000: Methodological Foundations

The SD literature encompasses a thematic structure spanning in the 1980-2000 period, which can be characterized as the period in which the methodological foundations of this modeling technique were established. The data obtained from this period reveals 485 studies. During this period, academic researchers developed the conceptual and theoretical foundations of SD in operations research, management science and business economics.

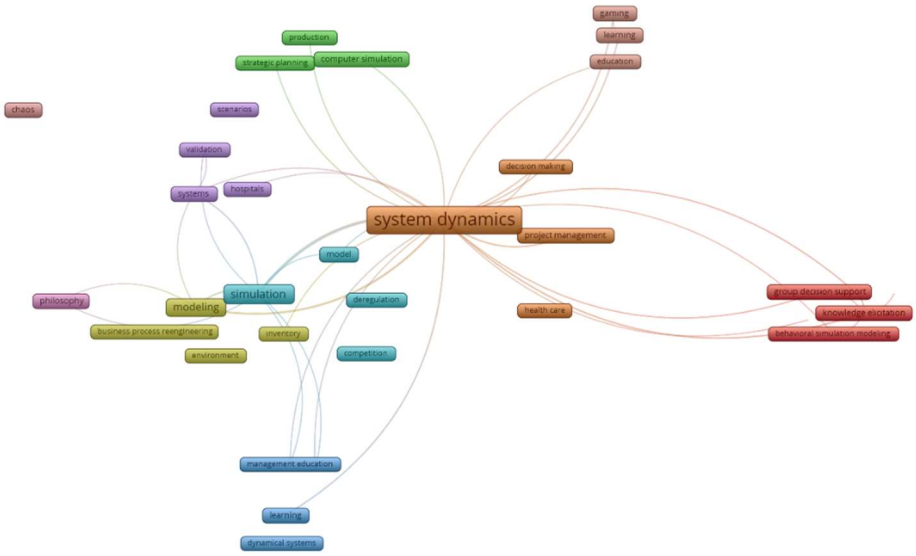


Figure 2: 1980–2000: Methodological Foundations Co-occurrence Map

The co-occurrence map reveals that conceptual foundations of SD, such as "modeling" and "business process reengineering" were the subjects of academic studies during this period. Similarly, keywords such as "validation" and "scenarios" within SD literature became prominent during this period. The presence of keywords such as "decision making", "strategic planning" and "computer simulation" can be interpreted as additional indicators of the advancement of these conceptual foundations.

In addition, there appears to be an emphasis on representing feedback-based systems with SD. Furthermore, the presence of keywords like "gaming", "learning" and "education" shows that, during this period demonstrates that SD was seen as a tool for decision-making and organizational learning. Healthcare was the only application area where the method found its place.

2001–2005: Industrial Adoption and Decision-Support Emergence

In the SD literature, the period between 2001 and 2005 represents the period when SD modeling technique began to mature in an application-focused manner. The data obtained from this period reveals 385 studies. The total of 726 keywords found in these studies was reduced to 45 keywords for analysis, with a minimum of 3 occurrences.In the period, there are studies in which the practical foundations of SD were laid and its usability as a decision support system in scenario analysis and policy evaluation as iscussed.

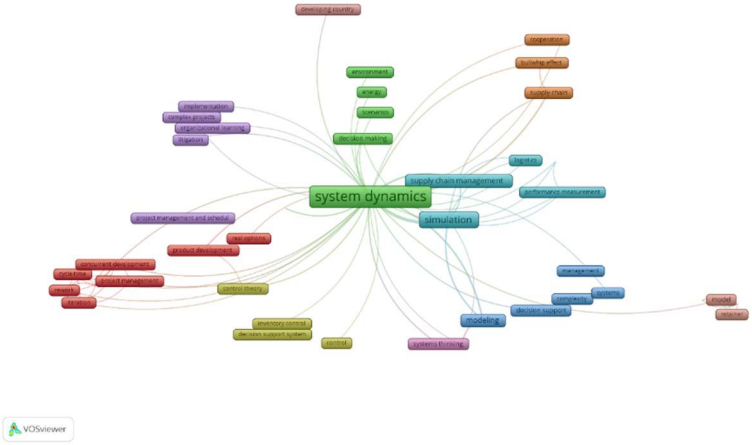


Figure 3: 2001–2005: Industrial Adoption and Decision-Support Emergence Co-occurrence Map

The co-occurrence map reveals that SD's application-oriented foundations lie in concepts such as "supply chain management" "logistics" "bullwhip effect" and "performance measurement". Furthermore, the presence of keywords such as "cooperation" "decision making" and "scenarios" on the map demonstrates that SD finds a place in scenario based, collaborative decision-making processes. The presence of concepts such as "project management" "project management and schedule" "rework" "iteration" "cycle time" "concurrent development" and "product development" on the map demonstrates that SD also finds a place in project management and production management applications. One notable keyword for this period is the presence of

the keyword "Developing country". The presence of this keyword, along with the keywords "environment" and "energy" indicates that SD is used in macro analyses.

2006–2010: Integration and Sustainability Orientation

In the SD literature, the period between 2006 and 2010 was the period when SD focused on sustainability as an application area. The data obtained from this period reveals 958 studies. The total of 2,197 keywords were found in these studies, and the analysis was narrowed down to 42 keywords, with a minimum of 5 occurrences.

During this period, the integration-based growth of SD studies became evident, and sustainability practices deepened. It also appears that SD gained acceptance as a tool for policy analysis and long-term planning during this period.

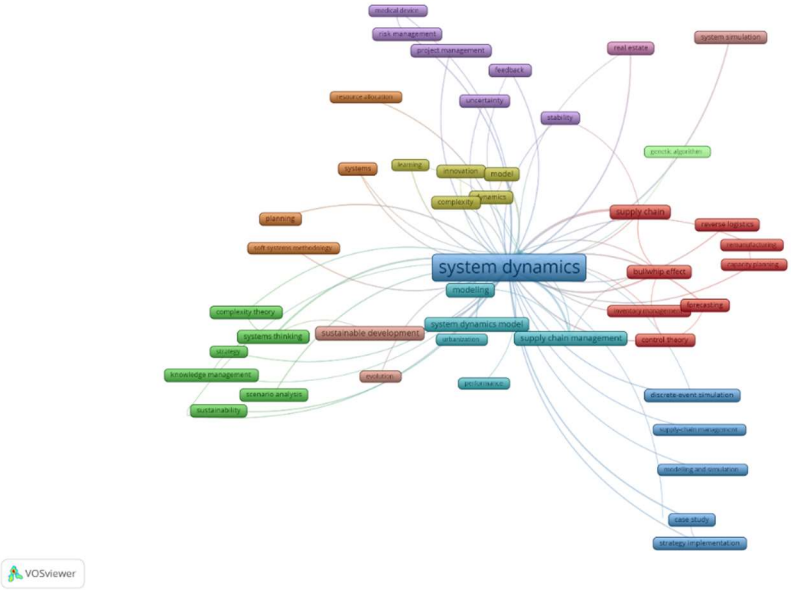


Figure 4: 2006–2010: Integration and Sustainability Orientation Co-occurrence Map

An examination of the co-occurrence map reveals that the keywords "sustainable development," "sustainability," "scenario analysis" "knowledge management" and "systems thinking" within SD clearly dominated the literature during this period. The terms "complexity theory" and "strategy" appearing on the map indicate that the SD function of "evaluating strategies by modeling complex systems" was laid during this period.

SD gained widespread acceptance, particularly in the fields of production management and supply chain management, during this period. Keywords such as "supply chain management," "inventory management", "capacity planning", "reverse logistics", "remanufacturing" and "forecasting" support this notion. Keywords such as "innovation", "uncertainty", "risk management" and "stability" indicate a shift toward popular academic fields of study, such as innovation and decision-making under uncertainty. Keywords such as "medical device", "real estate" and "resource allocation" indicate that SD was applied in both macro and micro areas. Keywords such as "soft systems methodology", "systems", and "planning" indicate a periodic shift toward SD as a modeling technique, where it was considered alongside soft systems methodologies. The keyword "discrete event simulation" suggests the first integrations with other simulation methods were observed during this period.

2011–2015: The Strengthening of Sustainability-Focused Systems Thinking and the Vensim -Based Modeling Era

In the SD literature, the period between 2011 and 2015 marked the period when SD's systems thinking approach was used with the concept of sustainability and when the "Vensim" package program began to be used in SD modeling. The data obtained from this period reveals 981 studies. A total of 2,490 keywords found in these studies were narrowed down to 43 keywords for analysis, with a minimum of 5 occurrences.

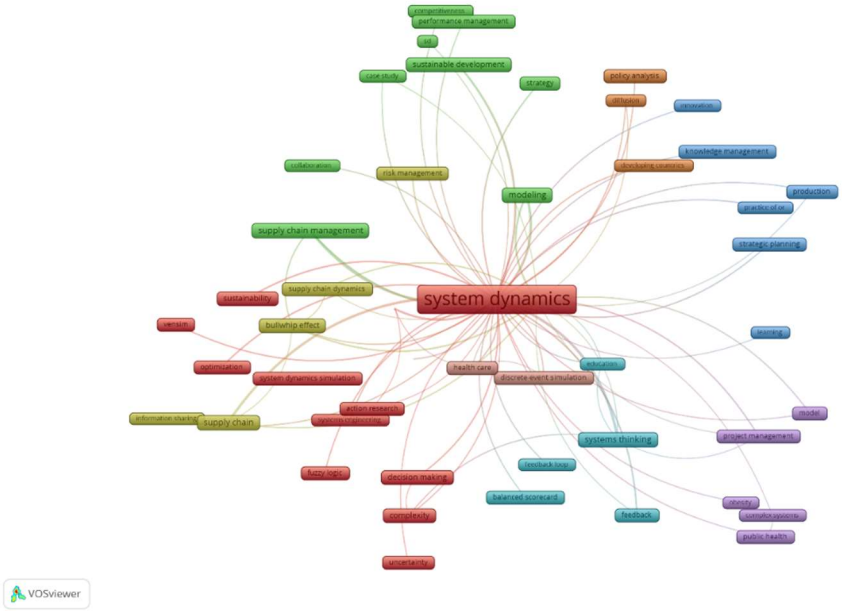


Figure 5: 2011–2015: The Strengthening of Sustainability-Focused Systems Thinking and the Vensim -Based Modeling Era Co-occurrence Map

The co-occurrence map reveals that the SD keywords "sustainable development," "sustainability", "knowledge management," "systems thinking," "collaboration," and "policy analysis" dominated the period. Keyword structures indicate that multi-stakeholder policy analysis was widely used in academic studies during this period. Keywords such as "public health," "health care," "education," and "obesity" indicate that SD was used in the evaluation of public health policies. This indicate that SD found applications in the public interest.

Another trend of the period is the use of fuzzy logic to model uncertainty. "Vensim", a package program commonly used in computer modeling of SD, appears as a keyword on the map. This indicate that with the development and proliferation of computer technology, the use of packaged software has also become increasingly adopted and widespread.

2016–2020: Interdisciplinary Expansion and Hybrid Adoption Modeling Approaches

In the SD literature, the 2016-2020 period is the period when interdisciplinary applications intensified and hybrid approaches were fully integrated into the simulation modeling literature. The data obtained from this period reveals 1,342 studies. A total of 3,604 keywords were found in these studies, and the analysis was narrowed down to 52 keywords with a minimum occurrence setting of 7.

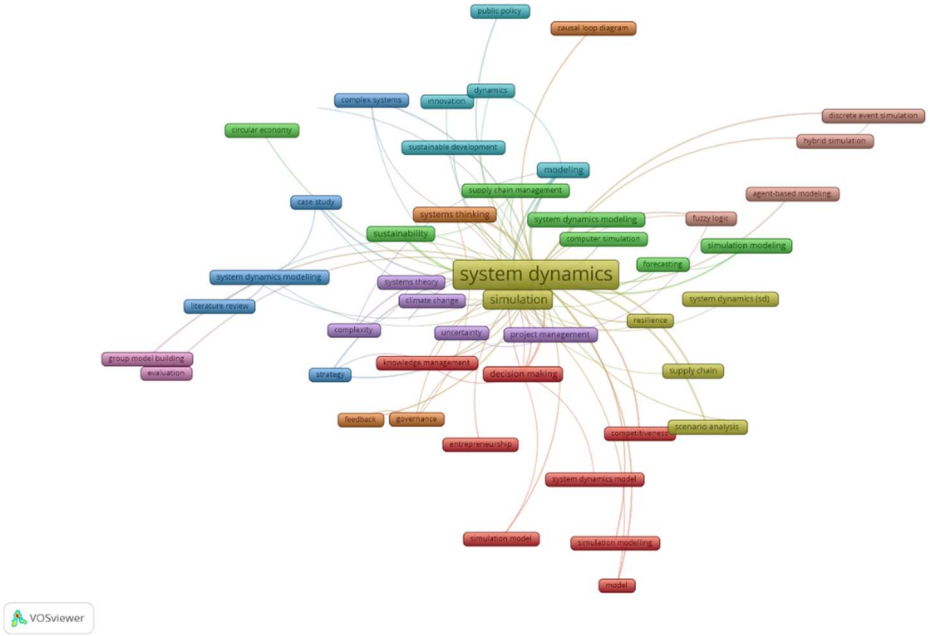


Figure 6: 2016–2020: Interdisciplinary Expansion and Hybrid Adoption Modeling Approaches Co-occurrence Map

The most notable keyword cluster compared to other periods is “hybrid simulation”, “agent-based modeling”, “discrete event simulation”, “fuzzy logic” and “simulation modeling”. The presence of these keywords on the map indicates that SD is now integrated into the simulation modeling literature and uses hybrid approaches and simulation paradigms together. This period is important in terms of SD's methodological diversification.

The keywords "supply chain management" and "supply chain" indicate the continued widespread use of SD in the supply chain. In addition to that, "circular economy" keyword on the map indicates that SD is integrated into the circular economy topic trend. The presence of both "entrepreneurship" and "governance" on the map demonstrates the use of SD in both micro and macro modeling in this era.

2021 - 2025: Digital Transformation and Resilient Systems, Covid 19 Pandemic

In the SD literature, the 2021-2025 period can be considered a period affected by digital transformation. Also, with the impact of the 2019 pandemic and Covid-19 coming to the fore, and the thematic presence of the concepts "circular economy" and "renewable energy" strengthening in the literature. Data obtained from this period reveals 1,356 studies. A total of 3,023 keywords found in these studies were reduced to 47 keywords for analysis with a minimum of 6 occurrences.

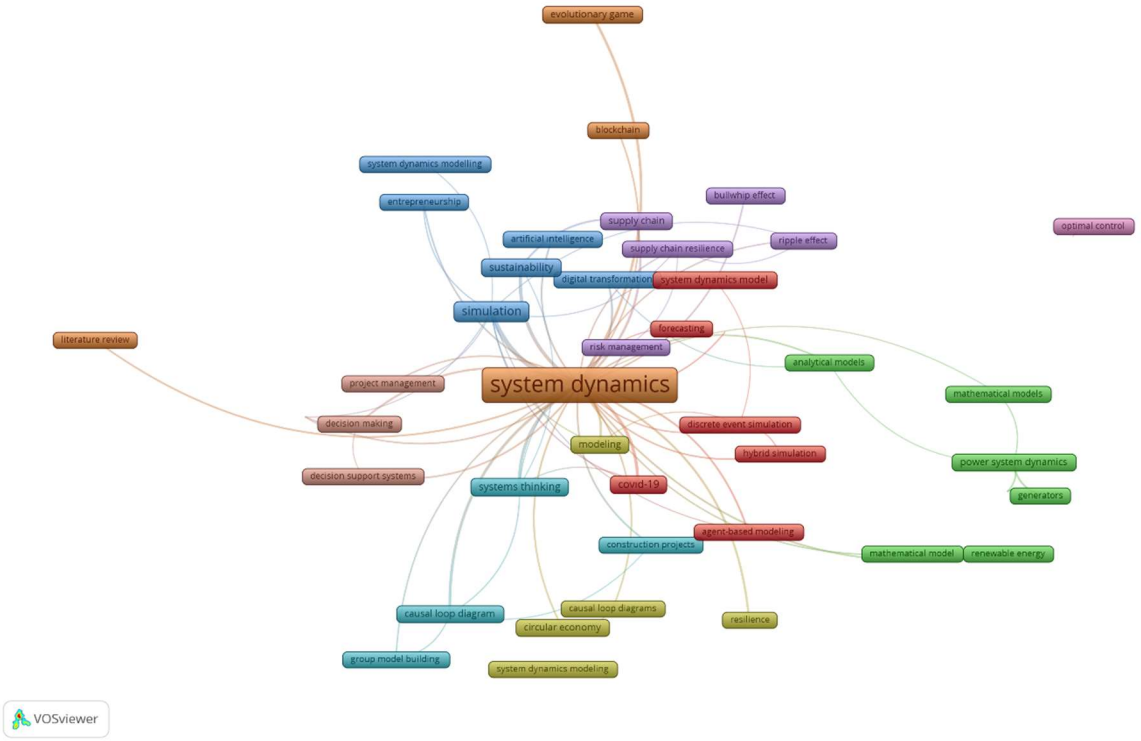


Figure 7 2021-2025: Digital Transformation and Resilient Systems, Covid 19 Pandemic Co-occurrence Map

During this period, the keywords "covid-19," "resilience" "risk management" and " forecasting" have gained strength with the Covid -19 pandemic. This is because SD is used as a modeling tool in analyzing the possible consequences of the global crisis. In addition, "circular economy", "renewable energy" and "power system" keywords show that SD is integrated into the popular themes of the period. Another keyword cluster that stands out on the map is "blockchain", "artificial intelligence" and "digital transformation" themes. These themes show that SD is the preferred policy analysis tool in digital transformation.

CONCLUSION AND FUTURE DIRECTIONS

In this study, the thematic evolution of SD literature in the research fields of "Operations Research", "Management Science" and "Business Economics" was examined by obtaining SD studies in the Web of Science Core Collection with a specific query and performing co-occurrence analysis, one of the bibliometric analysis techniques, with the VOSviewer software. Another aim of this study is to predict the future thematic direction of the SD literature. Thus, this study presents the methodological and interdisciplinary thematic evolution of studies in the SD literature.

The findings show that the prominent themes of the studies in the SD literature have evolved chronologically as follows:

- 1980-2000: Methodological Foundations
- 2001 -2005: Industrial Application and Decision Support
- 2006-2010: Sustainability-Focused Integration
- 2011-2015: Sustainability + Systems Thinking & Vensim
- 2016-2020: Hybrid Simulation and Interdisciplinary Dissemination
- 2021-2025: Digital Transformation, Resilience and Covid-19

In line with this evolutionary change, some thematic future directions for SD can be envisioned. Accordingly, studies in the SD literature will focus on hybrid use with other data-driven methods such as agent-based modeling, machine learning, deep learning, and so on. Furthermore, the recent prominence of fuzzy logic as a methodological approach suggests that future SD studies will focus more on decision-making applications under uncertainty. In this regard, it is anticipated that analytical methods and applications used in modeling uncertainty, such as gray system theory, will gain prominence in the SD literature. SD will maintain its focus on the themes of circular economy, renewable energy, and sustainability, emerging as a powerful tool for policy analysis in these themes in the coming years. Furthermore, supply chain management applications are expected to maintain their dominance in the SD literature. Also, multimethodology and meta-modeling structures will gain strength in the SD literature.

The strengthening of SD in participatory policy modeling themes involving stakeholders suggests that this trend will continue in the future. It is expected to expand its focus on themes such as group decision modeling, models based on stakeholder views, and participatory policy design. In future studies, SD will increasingly be used as a technique in modeling digital transformation policies. It is envisioned that SD applications will also thematically follow popular digital transformation trends such as

Blockchain, AI, IoT, and digital twin integration. Dynamic SD models with real-time data flow will become a part of the literature in the future.

SD has proven to be an effective tool in modeling global crises like Covid-19. In another potential global crisis, SD will once again emerge as an effective modeling tool.

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