

REV4.0 – The Socio–Economic Consequences of the Fourth Industrial Revolution

September 19–23, 2022

Monday 19.09.2022, Building C, room D (Krakow University of Economics)	
	<p>THE COMPLEXITY OF MANAGING ORGANIZATIONS IN THE CONDITIONS OF THE FOURTH INDUSTRIAL REVOLUTION (1.1)</p> <p>CONFERENCE IN POLISH / KONFERENCJA W JĘZYKU POLSKIM</p>
8:00–9:00	<i>Registration</i>
9:00–9:15	Inauguration
9:15–9:45	<p><u>The Fourth Industrial Revolution in Management</u></p> <p>Prof. Martin Straka (Technical University of Kosice, Kosice, Slovakia), Prof. EMAG Artur Kozłowski (Łukasiewicz Research Network – Institute of Innovative Technologies EMAG)</p>
9:45–11:00	<p><u>Agile project management and complexity</u></p> <p>Prof. KUE Czesław Mesjasz (KUE), Prof. KUE Mariusz Sołtysik (KUE)</p>
11:00–11:30	<i>Coffee break</i>
11:30–14:00	<p><u>Social–Robot–Neuro: a new approach to management</u></p> <p>Prof. AGH Bartłomiej Śnieżyński (AGH), Dr. Artur Gunia (UJ), Dr. Magda Gawłowska (UJ)</p>
14:00–15:00	<i>Lunch (Senacka Hall, KUE Main Building)</i>
15:00–16:15	<p><u>Corporate finance: complexity versus innovation</u></p> <p>Prof. KUE Konrad Grabiński (KUE), Prof. KUE Marcin Kędzior (KUE)</p>
16:15–16:30	Official closing of the conference

Monday, 19.09.2022, Building C, room E (Krakow University of Economics)	
CHANGES IN FINANCIAL MARKETS AND KEY MARKET INSTITUTIONS (1.3)	
8:00–9:00	<i>Registration</i>
9:00–9:15	Inauguration Prof. KUE Marcin Czupryna (KUE)
<u>Session 1</u> <u>Behavioural determinants of financial markets</u>	
9:15–10:15	On the evolutionary roots of Prospect-Theory – experiments with macaques and plants Prof. Sacha Bourgeois-Gironde (Université Paris 2)
10:15–10:35	Investment advisor or AI? Poles' investment and saving strategies in a changing world Prof. KUE Elżbieta Kubińska (KUE), Dr. Anna Macko (KUE), Dr. Magdalena Adamczyk-Kowalczyk (KUE)
10:35–11:00	Electronic trading and fine wine markets Prof. KUE Marcin Czupryna (KUE), Dr. Paweł Oleksy (KUE)
11:00–11:30	<i>Coffee break</i>
<u>Session 2</u> <u>Digitalization, technological and environmental change in financial markets</u>	
11:30–12:30	What Will Drive Global Economic Growth in the Digital Age? Prof. Jakub Growiec (SGH Warsaw School of Economics)
12:30–12:50	Residential property prices in Poland and Polish monetary policy Prof. Jan Czekaj (KUE), Dr. Maciej Bolisęga (KUE), Dr. Paweł Oleksy (KUE)
12:50–13:10	Beta herding. Evidence from the Polish capital market Dr. Eng. Janusz Żarnowski (KUE)

13:10–13:20	The Financialisation of non–financial corporations Dr. Paweł Oleksy (KUE), Prof. KUE Andrzej Zyguła (KUE)
13:20–13:40	Methods of human capital measurement. The state of human capital and innovation in Polish regions Dr. Maciej Jagódka (KUE), Dr. Małgorzata Snarska (KUE)
13:40–14:00	Discussion
14:00–15:00	<i>Lunch (Senacka Hall, KUE Main Building)</i>
	<u>Session 3</u> <u>The Ethics of financial markets</u>
15:00–16:15	Financialisation and its consequences Prof. Marek Ratajczak (Poznań University of Economics and Business)
16:15–16:30	Official closing of the conference Prof. KUE Marcin Czupryna (KUE)

Monday, 19.09.2022, Building C, room F (Krakow University of Economics)	
	PRODUCT MANAGEMENT (1.4) CONFERENCE IN POLISH / KONFERENCJA W JĘZYKU POLSKIM
8:00–9:00	<i>Registration</i>
9:00–9:15	Inauguration Prof. KUE Magdalena Wojnarowska (KUE)
9:15–9:45	Circular economy approach to ecological civilization Prof. Zenon Foltynowicz
9:45–11:00	<u>Circular economy in Industry 4.0</u> Prof. Marek Ćwiklicki (KUE) – <i>Relationships between circular economy and Industry 4.0</i> Prof. KUE Piotr Kafel (KUE) – <i>Digitization in EMAS-registered organisations</i> Dr. Eng. Małgorzata Miśniakiewicz (KUE) – <i>The Modern consumer in the e-grocery market</i>
11:00–11:30	<i>Coffee break</i>
11:30–12:45	<u>Sustainable products in a circular economy</u> Prof. KUE Magdalena Wojnarowska (KUE) – <i>The Importance of a sustainable product in the circular economy</i> Prof. KUE Agnieszka Cholewa-Wójcik (KUE), Dr. Eng. Agnieszka Kawecka – <i>Challenges in the eco-design of integrated products</i> Prof. IKiFP PAN Maciej Guzik, Prof. P.Cz. Tomasz Nitkiewicz, – <i>How sustainable are biopolymers?</i>
12:45–14:00	<u>Business models in a circular economy</u> Agnieszka Nowaczek, Prof. AGH Joanna Kulczycka – <i>The Interplay between sustainable production and the circular economy in the construction sector</i> Dr. Eng. Paweł Nowicki – <i>The Importance and adaptation of environmental certification schemes in a circular economy</i> Dr. Magdalena Muradin – <i>Circular models for sustainable supply chain management</i>

	Dr. Eng. Urszula Balon, Prof. KUE Anna Prusak, Prof. KUE Marek Jabłoński – <i>The Costs and benefits of moving to a circular business model</i>
14:00–15:00	<i>Lunch (Senacka Hall, KUE Main Building)</i>
15:00–16:15	<p><u>The consumer in a circular economy</u></p> <p>Dr. Eng. Małgorzata Miśniakiewicz, Kamila Pilch – <i>The Determinants of consumer behaviour – towards sustainable consumption</i></p> <p>Dr. Eng. Bartłomiej Kabaja – <i>The Impact of environmental labelling on the promotion of a circular economy</i></p> <p>Dr. Olga Janikowska, Prof. AGH Joanna Kulczycka, Agnieszka Nowaczek – <i>Cooperation with stakeholders as a condition for a circular economy</i></p> <p>Dr. Jakub Głowacki, Dr. Piotr Kopyciński, Prof. URK Mateusz Malinowski, Prof. KUE Łukasz Mamica – <i>Characteristics of sustainable consumption from an economic perspective</i></p>
16:15–16:30	<p>Official closing of the conference</p> <p>Prof. KUE Magdalena Wojnarowska (KUE)</p>

Tuesday, 20.09.2022, Building C, room D (Krakow University of Economics)	
	DIGITISATION OF PRODUCTION AND MANAGEMENT PROCESSES (1.2)
8:00–9:00	<i>Registration</i>
9:00–9:15	Inauguration Prof. Paweł Lula (KUE)
9:15–11:00	<p style="text-align: center;"><u>Session 1</u> <u>Artificial Intelligence Trends in Business</u></p> <p style="text-align: center;">Virtual assistants as support in knowledge work – the case of marketers Prof. ALK A. Przegalińska-Skierkowska</p> <p style="text-align: center;">The role of mass training of people in the context of using AI and Data science M. Parysz, CEO & Co-Founder</p>
11:00–11:30	<i>Coffee break</i>
11:30–14:00	<p style="text-align: center;"><u>Session 2</u> <u>Improving efficiency through digitalization</u></p> <p style="text-align: center;">Digitalization of the labour market: online platforms as job markets Zoran Kalinić (University of Kragujevac), Vladan Ivanovic (University of Kragujevac), Branka Andjelkovic (Public Policy Research Centre, Belgrade), Tanja Jakobi (Public Policy Research Centre, Belgrade), Ljubivoje Radonjic (Public Policy Research Centre, Belgrade)</p> <p style="text-align: center;">Application of artificial intelligence in the management of complex energy systems Vladimir Ranković (University of Kragujevac)</p> <p style="text-align: center;">Dimensions of sustainability and resource efficiency in digital business processes and value chains Dieter Hertweck (Reutlingen University)</p>

	<p>Possibilities and challenges of digital technologies for sustainable development</p> <p>Evgeniia Filippova-Karlush (MCI The Entrepreneurial School)</p>
14:00–15:00	Lunch (Senacka Hall, KUE Main Building)
15:00–16:15	<p><u>Panel</u></p> <p>Digitalization of production and management processes: a vision of the enterprise of the future</p> <p><i>Discussion panel bringing together speakers from two previous sessions focused on future perspectives and challenges in the area of digitalization and replacement of humans by the use of digital technologies</i></p>
16:15–16:30	Official closing of the conference

Tuesday, 20.09.2022, Building C, room E (Krakow University of Economics)	
	NEW INDUSTRIAL RELATIONS (2.1)
8:00–9:00	Registration
9:00–9:15	Inauguration
9:15–10:15	<p>The digital intrapreneur: an internal pacemaker for digital transformation of organizations</p> <p>Dr. Christian Friedl (FH Joanneum, Graz, Austria)</p> <p>Leveraging Universities as innovation ecosystems: the case of Nova SBE in Portugal</p> <p>Alisson Avila (Head of Applied Strategy, Nova School of Business and Economics, Lisbon, Portugal)</p>
10:15–11:00	<p><u>Session 1</u></p> <p><u>The Impact of the Fourth Industrial Revolution on the labour market</u></p> <p>Moderator: Dr Agnieszka Żur (KUE)</p> <p>Prof. PP Joanna Kałkowska, (Poznan University of Technology) – <i>Smart industrial challenges of the future</i></p> <p>Prof. UMK Michał Moszyński (Nicolaus Copernicus University in Toruń) – <i>The Fourth Industrial Revolution in the German Labour Market</i></p> <p>Alicja Dudek (KUE) – <i>Losing a job in a pandemic: the experiences of migrants in Poland</i></p>
11:00–11:30	Coffee break
11:30–12:45	<p><u>Session 2</u></p> <p><u>Innovative business models in building industrial relations – a sectoral perspective</u></p> <p>Moderator: Dr. Agnieszka Małkowska</p> <p>Prof. KUE Michał Głuszak (KUE) – <i>The Green revolution in the commercial real estate market: Diffusion and adoption of smart and sustainable technologies in Poland</i></p>

	<p>Dr. Katarzyna Kamińska (SGH Warsaw School of Economics) – <i>Industrial policy in the economic development strategies of selected EU countries – labour market aspects</i> Justyna Tomala (KUE) – <i>Flexible forms of employment in selected EU countries</i></p>
12:45–14:00	<p style="text-align: center;"><u>Session 3</u> <u>New developments in industrial relations</u> SESSION IN POLISH / SESJA W JĘZYKU POLSKIM</p> <p style="text-align: center;">Moderator: Prof. KUE Joanna Kudelko (KUE)</p> <p>Dr. Marcin J. Piątkowski (KUE) – <i>The EU labour market in the context of Technological Revolution 4.0 – a comparative analysis</i></p> <p>Prof. PP Hanna Włodarkiewicz-Klimek (Poznan University of Technology) – <i>New models of work organisation in the Industry 4.0 enterprise – the evolution of work forms</i></p> <p>Dr. Katarzyna Kania (KUE) – <i>The Impact of technological innovation on the developer-client relationship</i></p>
14:00–15:00	<p><i>Lunch (Senacka Hall, KUE Main Building)</i></p>
15:00–16:15	<p style="text-align: center;"><u>Session 4</u> <u>Institutional determinants of industrial relations in the digital era</u> SESSION IN POLISH / SESJA W JĘZYKU POLSKIM</p> <p style="text-align: center;">Moderator: Prof. KUE Maria Urbaniec</p> <p>Dr. Ewa Kulińska-Sadłocha (University of Łódź), Prof. UEP Anna Iwańczuk-Kaliska (Poznań University of Economics) – <i>The Impact of ESG factors on lending in the transformation towards Industry 4.0</i></p> <p>Dr. Małgorzata Uhruska (KUE) – <i>How do new technologies support real estate services in Poland?</i></p> <p>Joanna Czyżowska, Prof. KUE Dariusz Żmija (KUE) – <i>The role of special economic zones in supporting regional development</i></p>
16:15–16:30	<p>Official closing of the conference</p>

Tuesday, 20.09.2022, Building C, room F (Krakow University of Economics)	
DEVELOPMENT RESOURCES FOR THE NEW ECONOMY (2.2)	
8:00–9:00	<i>Registration</i>
9:00–9:15	Inauguration
9:15–9:45	<u>Education confronted with Industry and Economy 4.0</u> Prof. dr hab. inż. Wojciech Cellary
9:45–11:00	<u>Session 1</u> <u>The Labour market in the face of new digital technologies</u> Moderator: Prof. Magdalena Jelonek (KUE) Prof. Gunther Maier – <i>Sir Tim vs. Elsevier: How digitalization revolutionizes academic publishing</i> Prof. Bartłomiej Marona, Prof. Michał Głuszak, Dr. Radosław Gaca, Dr. Jan Konowalczyk – <i>The impact of cell phone towers on residential property prices: literature review and case study</i> Dr. Małgorzata Rymarzak – <i>University campuses during the Fourth Industrial Revolution</i> Prof. Krzysztof Wach, Prof. Marek Maciejewski, Prof. Agnieszka Głodowska – <i>Entrepreneurial Internationalization of Polish Firms: An Analysis with the Concept of Resources and Competencies</i>
11:00–11:30	<i>Coffee break</i>

<p>11:30–12:45</p>	<p style="text-align: center;"><u>Session 2</u></p> <p style="text-align: center;"><u>Growth in life and success at work</u></p> <p style="text-align: center;">Moderator: Prof. dr hab. Krzysztof Wach (KUE)</p> <p>Prof. Jolanta Perek-Białas – <i>Extending working lives and unequal treatment of older workers – recommendations for policy</i></p> <p>Prof. dr hab. Przemysław Zbierowski – <i>Entrepreneurs' well-being as a resource for growth and success</i></p> <p>Prof. dr hab. Dorota Węziak-Białowolska – <i>Flourishing in life and well-being at work</i></p> <p>Dr. hab. Magdalena Jelonek – <i>Career success of graduates and the effectiveness of public interventions targeting the transition from university to the labour market - questions, challenges, and opportunities</i></p>
<p>12:45–14:00</p>	<p style="text-align: center;"><u>Session 3</u></p> <p style="text-align: center;"><u>The Impact of technology on employee professional development</u></p> <p style="text-align: center;">IN POLISH / W JĘZYKU POLSKIM</p> <p style="text-align: center;">Moderator: Małgorzata Zakrzewska (KUE)</p> <p>Dr. Izabela Czaja, Prof. Ian Stone – <i>The Internal and external market – sectoral changes and labour market institutions</i></p> <p>Dr. Tomasz Bober – <i>The Socio-economic determinants of the implementation of technical innovations in customer service</i></p> <p>Dr. Katarzyna Żmija – <i>The role of employers in shaping employee competencies in enterprises in Poland</i></p> <p>Dr. Magdalena Gorzelany-Dziadkowiec, Zuzanna Węglarz – <i>Worker's competence profile in the industrial revolution era – Society 4.0 and 5.0</i></p> <p>Dr. Izabela Czaja, Dr. Małgorzata Kosła – <i>The effects of the digitization and revolution 4.0 on the labour market: Insights from competence development</i></p>
<p>14:00–15:00</p>	<p style="text-align: center;"><i>Lunch (Senacka Hall, KUE Main Building)</i></p>

15:00–16:15	<p style="text-align: center;"><u>Session 4</u></p> <p style="text-align: center;"><u>The Role of education and public interventions in developing new competencies</u></p> <p style="text-align: center;">IN POLISH / W JĘZYKU POLSKIM</p> <p style="text-align: center;">Moderator: Dr. Małgorzata Kosła (KUE)</p> <p>Dr. Magdalena Gorzelany-Dziadkowiec, Maria Dziadkowiec - <i>Revolution 4.0 and the labor market from the students' perspective</i></p> <p>Aleksandra Borkowska – <i>The Infrastructure of secondary schools in the context of using new technologies in education</i></p> <p>Dr. Izabela Czaja, Prof. Tomasz Kafel – <i>Institutional changes in the labour market and the new role of universities</i></p> <p>Dr. Monika Ziółko, Dr. Dorota Dzedzic – <i>Logistical competence of students</i></p>
16:15–16:30	Official closing of the conference

Wednesday, 21.09.2022, Building C, room D (Krakow University of Economics)	
	ENERGY TRANSITION – REGULATIONS AND POSSIBLE DIRECTIONS (3.1)
<i>8:00–9:00</i>	<i>Registration</i>
9:00–9:15	Inauguration
9:15–9:45	<p>Reducing energy poverty by radically reducing poverty: What would it cost, and how would it affect tax rates and CO₂ emissions, using the UK as an example?</p> <p style="text-align: center;">Prof. Ray Galvin (University of Cambridge)</p>
9:45–11:00	<p style="text-align: center;"><u>Session 1</u></p> <p>Prof. UEW Arkadiusz Piwowar (Wroclaw University of Economics and Business), Prof. UZ Maciej Dzikuć (University of Zielona Góra), Dr. Maria Dzikuć (University of Zielona Góra)</p> <p style="text-align: center;"><i>– The prospects for the development of photovoltaic micro-installations in Poland</i></p> <p>Prof. UE Marzena Czarnicka (University of Economics in Katowice)</p> <p style="text-align: center;"><i>– The Involvement of vulnerable customers in terms of energy justice</i></p> <p>Jan Frankowski (Institute for Structural Research, Polish Academy of Sciences) –</p> <p style="text-align: center;"><i>How to ensure decent heating in municipal housing stock?</i></p> <p>Dr. Krystian Szczepański (Institute of Environmental Protection – National Research Institute)</p> <p style="text-align: center;"><i>- POLAND NET-ZERO 2050 Transformation of the Polish energy sector by 2050</i></p>
<i>11:00–11:30</i>	<i>Coffee break</i>
11:30–12:45	<p style="text-align: center;"><u>Session 2</u></p> <p>Michał Król (KUE), Prof. KUE Kamil Makiela (KUE), Prof. KUE Łukasz Mamica (KUE) –</p> <p style="text-align: center;"><i>Willingness to pay for green energy and clean air by residents of single-family houses in Poland</i></p> <p>Dr. Jakub Głowacki (KUE), Prof. KUE Kamil Makiela (KUE) –</p> <p style="text-align: center;"><i>Efficiency of electric energy consumption in households</i></p>

	<p>Paweł Bajotek (KUE), Anna Gomola (KUE), Prof. KUE Łukasz Mamica (KUE) – <i>Cartoons matter: efficiency nudges as tools for shaping behaviour to minimize energy consumption</i></p> <p>Dr. Paweł Białynicki-Birula (KUE), Prof. KUE Kamil Makiela (KUE), Prof. KUE Łukasz Mamica (KUE) – <i>Energy literacy as a premise of public intervention: an analysis based on the example of KUE students</i></p>
12:45–14:00	<p style="text-align: center;">Session 3</p> <p>Dr. Monika Mazur-Bubak (KUE), Prof. KUE Renata Wróbel-Rotter (KUE) – <i>Unsustainable energy: the consequences and strategies for dealing with household energy insecurity in Poland</i></p> <p>Dr. Gamze Tanil – <i>Assessment of the renewable energy policy promotion in Turkey and Poland towards EU's renewable energy targets for 2020</i></p> <p>Prof. PRz Mariusz Ruszel (Rzeszow University of Technology) – <i>Strategic dilemmas of the energy transformation in the face of the war in Ukraine</i></p> <p>Bartosz Sobik (SGH Warsaw School of Economics) – <i>Energy transition towards sustainability. Conclusions from the cases of Poland and Central-Eastern Europe in terms of economy and energy security</i></p>
14:00–15:00	<p><i>Lunch (Senacka Hall, KUE Main Building)</i></p>
15:00–16:15	<p style="text-align: center;">Session 4</p> <p>Prof. UAM Aleksandra Lis-Plesińska (Adam Mickiewicz University Poznań), Dr. Marek Jaskólski (Adam Mickiewicz University Poznań),</p> <p>Dr. Rafał Szymanowski (Adam Mickiewicz University Poznań) – <i>The Role of expectations and metrics in coordinating transition to electric mobility across different sectors</i></p> <p>Dr. Grzegorz Kinelski (WSB University) – <i>Smart City 4.0 – the future of metropolis management</i></p> <p>Piotr Mikusek (University of Warsaw) – <i>The Fourth phase of the EU Emissions Trading System – a windy road to European Union climate neutrality</i></p>
16:15–16:30	<p style="text-align: center;">Official closing of the conference</p> <p style="text-align: center;">Prof. KUE Łukasz Mamica (KUE)</p>

Wednesday, 21.09.2022, Building C, room E (Krakow University of Economics)	
	MECHANISMS OF COLLECTIVE ACTION MANAGEMENT (3.2)
8:00–9:00	<i>Registration</i>
9:00–9:15	Inauguration
9:15–9:45	Keynote Speaker Prof. Katarzyna Śledziewska (UW)
9:45–11:00	<p style="text-align: center;"><u>Session 1</u></p> <p style="text-align: center;"><u>The Key challenges of technological revolution for public governance</u></p> <p style="text-align: center;">Moderator: Dr. Michał Możdżeń (KUE) Dr. Tomasz Geodecki (KUE), Mate Hajba, Eva Pavlikova, Martin Reguli, Ignacy Święcicki</p>
11:00–11:30	<i>Coffee break</i>
11:30–12:45	<p style="text-align: center;"><u>Session 2</u></p> <p style="text-align: center;"><u>“Data is the new oil” – data management in semi-peripheral countries</u></p> <p style="text-align: center;">IN POLISH / W JĘZYKU POLSKIM</p> <p style="text-align: center;">Moderator: Dr. Maciej Frączek (KUE) Dr. Bartłomiej Biga (KUE), Krzysztof Izdebski, Marta Musidłowska, Dr. Przemysław Pałka, Kazimierz Ujazdowski</p>
12:45–14:00	<p style="text-align: center;"><u>Session 3</u></p> <p style="text-align: center;"><u>The Impact of contemporary challenges posed by technological revolution on the practice of public management</u></p> <p style="text-align: center;">IN POLISH / W JĘZYKU POLSKIM</p> <p style="text-align: center;">Moderator: Prof. Marcin Zawicki (KUE) Katarzyna Baran (KUE), Dr. Marcin Kędzierski (KUE), Maria Libura, Bartosz Paszcza, Tomasz Rychter</p>
14:00–15:00	<i>Lunch (Senacka Hall, KUE Main Building)</i>
15:00–16:15	<p style="text-align: center;"><u>Session 4</u></p> <p style="text-align: center;"><u>Beyond the state and the market. Community governance of the interaction between technology and society</u></p>

	<p>IN POLISH / W JĘZYKU POLSKIM</p> <p>Moderator: Dr. Bartłomiej Biga (KUE) Prof. Andrzej Kozina (KUE), Joanna Erbel, Dr. Maciej Grodzicki, Jan Zygmuntowski</p>
16:15–16:30	Official closing of the conference

Wednesday, 21.09.2022, Building C, room F (Krakow University of Economics)	
	MODELS OF PUBLIC GOODS AND SERVICES PRODUCTION AND DISTRIBUTION (3.3)
8:00–9:00	<i>Registration</i>
9:00–9:15	Inauguration
9:15–9:45	Health security as a global public good in the condition of the fourth industrial revolution Prof. Salvatore Giacomuzzi
9:45–11:00	<p style="text-align: center;"><u>Session 1</u> <u>National security as a public good</u> IN POLISH / W JĘZYKU POLSKIM</p> <p>Dr. Tomasz Jedynak – <i>The Role of the state in ensuring the need for security</i> Dr. Olena Pozniakova (Lviv Polytechnic National University) – <i>New technologies in ensuring the safety of society during the war in Ukraine</i> Dr. Andrij Pekhnyk (Lviv University), MSc Ivanna Myshchyshyn (Institute of Regional Research M.I. Dolishnyi, National Academy of Sciences of Ukraine) – <i>Revolution 4.0 as a war instrument</i> Dr. Victor Trinchuk (Luhansk Taras Shevchenko National University) – <i>The risk of war and its impact on the functioning of financial markets</i></p>
11:00–11:30	<i>Coffee break</i>
11:30–12:45	<p style="text-align: center;"><u>Session 2</u> <u>Health security as a public good</u> IN POLISH / W JĘZYKU POLSKIM</p> <p>Dr. Joanna Niżnik (KUE) – <i>Health security during the COVID pandemic</i> Prof. UEK Maria Płonka (KUE) – <i>Health security in the context of Revolution 4.0</i> Prof. SGH Barbara Więckowska (SGH Warsaw School of Economics) – <i>Poland's National Health Fund 4.0: Is the public payer ready for the digital revolution?</i> Prof. Iga Rudawska (University of Szczecin), Prof. USz Iwona Markowicz (University of Szczecin) – <i>The Performance of health systems – reflections from the pandemic</i></p>
12:45–14:00	<p style="text-align: center;"><u>Session 3</u> <u>Education and social capital: Significance and development</u> IN POLISH / W JĘZYKU POLSKIM</p> <p>Dr. Katarzyna Maj-Waśniowska (KUE), Dr. Małgorzata Ćwiek (KUE) – <i>Identification of digital competences gaps - implications for the education system. Case study of Poland</i></p>

	<p>Dr. Jolanta Stanienda (KUE) – <i>The importance of social capital in Industrial Revolution 4.0</i></p> <p>Prof. KUE Joanna Wyrobek (KUE) – <i>The Importance and development of digital competences in the age of Revolution 4.0</i></p> <p>Grzegorz Korbela (KUE) – <i>Longevity risk as a challenge for future generations</i></p>
14:00–15:00	<i>Lunch (Senacka Hall, KUE Main Building)</i>
15:00–16:15	<p style="text-align: center;"><u>Session 4</u> <u>Local public goods in contemporary cities</u> IN POLISH / W JĘZYKU POLSKIM</p> <p>Prof. AGH Jacek Gądecki (AGH) – <i>The contemporary city and sharing - the case of creative-workshop spaces as new third places</i></p> <p>Dr. Ksymena Rosiek (KUE) – <i>Production and distribution models for public services and local public goods in contemporary cities</i></p> <p>Dr. Krzysztof Wąsowicz (KUE) – <i>The Impact of the use of modern technology on the quality of services provided by public utilities operating in urban spaces</i></p> <p>Prof. KUE Małgorzata Kożuch (KUE) – <i>Innovation and Industry 4.0 on the road to sustainable urban development</i></p>
16:15–16:30	Official closing of the conference

<p>Thursday 22.09.2022 – Main Conference – Building C, Nowa Aula (Krakow University of Economics)</p>	
<p>MAIN CONFERENCE – SOCIO-ECONOMIC CONSEQUENCES OF THE FOURTH INDUSTRIAL REVOLUTION</p>	
8:00– 9:00	<i>Registration</i>
9:00–9:20	<p>Inauguration Prof. KUE Stanisław Mazur (KUE)</p>
9:20–9:45	<p>Keynote speaker Robert Kroplewski (Plenipotentiary of the Minister of Digitization for the information society)</p>
9:45–11:00	<p><u>Session 1</u> <u>Sustainable business transformation</u> Moderator: Prof. Marek Ćwiklicki (KUE) Prof. Linda O’Riordan, Prof. Carlo Ingraio, Prof. AGH Joanna Kulczycka Jef Teugels (Co-founder and CEO Reins Group) – <i>Toward sustainable prosperity</i> Prof. Martin Straka</p>
11:00–11:30	<i>Coffee break</i>
11:30–12:45	<p><u>Session 2</u> Prof. Sacha Bourgeois-Gironde (Université Paris 2) – <i>Can game-theory imagine mechanisms to save the planet?</i> Prof. Dariusz Dymek (KUE) – <i>Digitization of production and management processes</i> Dr. Paweł Oleksy (KUE) – <i>Financial markets current challenges</i></p>
12:45–14:30	<i>Lunch (Senacka Hall, KUE Main Building)</i>
14:30–15:45	<p><u>Session 3</u> <u>Labour market challenges in the era of digital transformation</u> Moderators: Prof. KUE Maria Urbaniec Dr. Małgorzata Kosala Prof. Elżbieta Mączyńska (SGH Warsaw School of Economics) Prof. Wojciech Cellary (Poznań University of Economics) Leszek Zieliński (CEO Job Solutions and Symmetrical Payroll PL)</p>
15:45–16:00	<p>Official closing of the first day of the conference Prof. KUE Stanisław Mazur (KUE)</p>

19.00	<p><i>Conference Gala Dinner</i> <i>STARA ZAJEZDNIA KRAKÓW BY DESILVA</i> <i>12 Świętego Wawrzyńca Street</i> <i>[only for invited guests]</i></p>
<p>Friday, 23.09.2022 – Main Conference – Building C, Nowa Aula (Krakow University of Economics)</p>	
9:00–10:00	<p><i>Registration and coffee break</i></p>
10:00–10:15	<p>Opening of the second day of the conference</p> <p>Dr. Piotr Kopyciński (KUE)</p>
10:15–10:45	<p><u>Uncertainty</u></p> <p>Prof. Grzegorz Gorzelak (University of Warsaw, EUROREG)</p>
10:45–12:00	<p><u>Session 4</u> <u>The Public sector in the face of the challenges of the technological revolution: regulation, coordination and provision of services</u></p> <p>Moderator: Prof. KUE Łukasz Mamica (KUE) Prof. Salvatore Giacomuzzi (University of Poltava, University of Lviv, UN-ITU), Prof. Wojciech Paprocki (SGH Warsaw School of Economics), Prof. Stanisław Owsiak (KUE), Prof. KUE Stanisław Mazur (KUE)</p>
12:00–12:15	<p>Official closing of the conference</p> <p>Prof. KUE Stanisław Mazur (KUE)</p>
12:15–13:15	<p><i>Lunch (Senacka Hall, KUE Main Building)</i></p>