

2nd Congress of Polish Statistics – Warsaw, July 10-12, 2018

Day 1 July 10, 2018	
8.00 - 9.30	Registration of participants / Coffee break
9.30 - 10.30	<p>Welcome and Opening/Plenary Session</p> <p>ABC</p> <p>Presentations:</p> <ol style="list-style-type: none">1. Dominik Rozkrut 100 years of Statistics Poland: from historical perspective to forward look2. Czesław Domański The role of the scientific community in the process of shaping public statistics3. Stanisława Bartosiewicz Three out of three on the beginning of population statistics of the Second Polish Republic
10.30-11.00	<p>Guest of honour</p> <p>Graham Kalton The Past, Present, and Future of Social Surveys</p>
11.00 - 11.30	Coffee break

	Session 1 04 - Social Statistics English	Session 2 09 - Polish Statistics on the International Scene and the 25th Anniversary of the Statistics in Transition new series English	Session 3 07 - Data Analysis and Classification English	Session 4 06 - Regional Statistics
	A	B	C	D
11.30 - 13.00	Session organizer: Tomasz Panek Chairman: Adam Szulc <ol style="list-style-type: none"> Stanisław Maciej Kot Random equivalence scale: toward a new paradigm Joanna Tyrowicz, Magdalena Smyk Wage inequality and structural change Tomasz Panek, Jan Zwierzchowski Application of capability approach to quality of life measurement in Poland 	Session organizer: Włodzimierz Okrasa <ol style="list-style-type: none"> Misha Belkindas – keynote speaker The Role and Influence of GUS and "Transition" in the International Statistical System Jānis Lapīņš, Edmunds Vaskis Restart of household statistical surveys in Latvia and development of international cooperation with Polish statisticians or equipped with a GUS fishing rod towards new catches in statistical sample surveys Andrzej Ochocki Designing household surveys in Poland, Latvia, Lithuania and Moldova (1992-1997) Jan Kordos International Statistical Conferences and Sessions organized in Poland - 25-years Statistics in Transition 	Session organizer: Józef Pociecha <ol style="list-style-type: none"> Viera Pacáková Multidimensional statistical analysis of health data as a tool for high information value added Andrzej Sokołowski, Małgorzata Markowska Methodological and practical issues in rankings of regions Stanisław Śmiech, Monika Papież Sources of economic uncertainty in the European Union countries 	Session organizers: Tadeusz Borys, Małgorzata Markowska <ol style="list-style-type: none"> Tadeusz Borys Regional statistics in the context various classifications statistics – introduction to sessions Dominik Rozkrut Problems of statistical observation and measurement of innovative activity of enterprises in the regional system Dominika Rogalińska Towards spatial statistics. Directions and perspectives for the development of regional research Tomasz Potkański Problems and experiences of building a system of monitoring of public services (SMUP) in various spatial dimensions Dorota Wyszkowska Regional diversification of investment potential of local government units in Poland
13.00 - 14.30	Lunch			

	Session 5 03 - Population Statistics I	Session 6 09 - Polish Statistics on the International Scene and the 25th Anniversary of the Statistics in Transition new series English	Session 7 07 - Data Analysis and Classification	Session 8 06 - Regional Statistics
	A	B	C	D
14.30 - 16.00	Session organizers: Irena E. Kotowska, Elżbieta Gołata Chairman: Irena E. Kotowska 1. Elżbieta Gołata Population census in face of demographic and social challenges 2. Dorota Szałtys, Piotr Filip, Gabriela Nowakowska Parental linkage – new sources and methods for estimating the number and structure of families in Poland 3. Mikołaj Szołtysek Polish early modern census microdata and their contribution to historical demography of Europe	Session organizer: Włodzimierz Okrasa 1. Tomasz Józefowski, Tomasz Klimanek, Andrzej Młodak, Marcin Szymkowiak International cooperation of the Centre for Small Area Estimation at the Statistical Office in Poznań and its contribution in the development of Polish statistics 2. Krzysztof Zagórski Social indicators and measures of socio-economic development 3. Renata Bielak Statistics on the challenges of sustainable development	Session organizer: Krzysztof Jajuga 1. Grażyna Dehnel, Marek Walesiak A comparative analysis of economic efficiency of medium-size manufacturing enterprises in districts of Wielkopolska province using the hybrid approach with metric and interval-valued symbolic data 2. Katarzyna Kopczewska Spatial agglomeration index SPAG – analytical capabilities on the example of Polish data 3. Artur Mikulec Combined results of cohort and cross-section tables of duration of enterprises in Łódzkie Voivodship	Session organizers: Tadeusz Borys, Małgorzata Markowska 1. Beata Bal-Domańska, Elżbieta Stańczyk Sustainable development of voivodships – statistical perspective 2. Jacek Batóg, Barbara Batóg Statystyczna analiza regionalnej efektywności inwestycji 3. Marek Cierpiat-Wolan Diversification of the level of development of transborder areas of Poland, Slovakia and Ukraine - factors of progression and peripherisation 4. Beata Bieszk-Stolorz, Krzysztof Dmytrów Clustering of voivodeships with respect to effectiveness of forms of professional activation in years 2008–2016 5. Dorota Doniec The role and importance of regional accounts in the statistical system
16.00 - 16.30	Coffee break			

	Session 9 04 - Social Statistics	Session 10 02 - Survey Sampling and Small Area Estimation English	Session 11 01 - Mathematical Statistics English	Session 12 08 - Statistical Data
	A	B	C	D
16.30 - 18.00	<p>Session organizer: Tomasz Panek Chairman: Stanisław Maciej Kot</p> <ol style="list-style-type: none"> Marek Kośny Economic resourcefulness – an attempt at definition and modeling Adam Szulc Social policy in Poland confronted with monetary and multidimensional poverty Joanna Landmesser The comparison of differences in income distributions for men and women in selected countries of the European Union 	<p>Session organizer: Janusz L. Wywiął</p> <ol style="list-style-type: none"> Yves Tillé Spatially balanced sampling: state of the art Tomasz Bąk Spatial sampling modified by model use Tomasz Stachurski On direct and indirect median estimators in survey sampling 	<p>Session organizer: Miroslaw Krzyśko Chairman: Roman Zmyśloný</p> <ol style="list-style-type: none"> Marie Hušková Two-sample and change-point procedures based on empirical characteristic functions in higher dimension Miroslaw Pawlak Nearest Neighbor Methods for Time Series 	<p>Session organizer: Miroslaw Szreder</p> <ol style="list-style-type: none"> Jerzy Auksztol Challenges Facing Official Statistics in Acquiring Source Data Grazyna Dehnel, Elżbieta Gołata Problems in estimation economic activity of disabled people Jan Kordos Innovations in statistics in hundred years of the Polish Central Statistical Office
od 19.30	Gala dinner			

Day 2
July 11, 2018

9.30 - 10.00	Coffee break			
	Session 13 04 - Social Statistics	Session 14 02 - Survey Sampling and Small Area Estimation English	Session 15 07 - Data Analysis and Classification	Session 16 06 - Regional Statistics
	A	B	C	D
10.00 - 11.30	<p>Session organizer: Tomasz Panek Chairman: Stanisław Maciej Kot</p> <ol style="list-style-type: none"> 1. Anna Szukiełojć-Bieńkuńska, Tomasz Piasecki Problem of comparability and interpretation of subjective assessments of quality of life measured using different measuring scales 2. Józef Dziechciarz, Marta Dziechciarz-Duda Measurement of material welfare of households. Selected problems 3. Jolanta Perek-Białas Active Ageing Index - Polish experience 	<p>Session organizer: Janusz L. Wywiął Chairman: Jacek Wesołowski</p> <ol style="list-style-type: none"> 1. Ralf Münnich Recent advances in calibration and coherent estimation 2. Tomasz Żądło On testing hypotheses in case of small sample size 3. Alina Jędrzejczak, Jan Kubacki Small area estimation of income using spatio-temporal models 	<p>Session organizer: Andrzej Sokołowski</p> <ol style="list-style-type: none"> 1. Piotr Zaskórski, Katarzyna Pawlak-Kołodziejska, Jacek Woźniak Selected determinants of the activity of enterprises on the NewConnect market in Poland in terms of the application of information and communication technologies 2. Wojciech Roszka Synthetic datasets in small area statistics 3. Maciej Nasiński, Paulina Broniatowska, Aleksandra Majchrowska Ageing and wages. Use of harmonised data on earnings. 	<p>Session organizers: Tadeusz Borys, Małgorzata Markowska</p> <ol style="list-style-type: none"> 1. Artur Myna Regional urban policy with particular emphasis on the development of residential areas 2. Mariola Zalewska Effectiveness of health care in the Polish regions with the innovation factor taken into account 3. Jakub Hadyński, Dagmara Kub ska-Matysiak Regional diversification of public entities' activities in solving social problems 4. Barbara Batóg, Katarzyna Wawrzyniak The Comparative Analysis of Regional Changes in Sectoral Structure of Employed Persons in Poland in 2010-2016 5. Katarzyna Kopczewska Measures of sectoral concentration for regions: a comparative review and evaluation based on Monte Carlo simulation

11.30 - 12.00	Coffee break			
	Session 17 03 - Population Statistics - II	Session 18 09 - Polish Statistics on the International Scene and the 25th Anniversary of the Statistics in Transition new series English	Session 19 10 - History of Polish Statistics	Session 20 08 - Statistical Data
	A	B	C	D
12.00 - 13.30	<p>Session organizers: Irena E. Kotowska, Elżbieta Gołata Chairman: Elżbieta Gołata</p> <ol style="list-style-type: none"> Irena E. Kotowska, Jolanta Kurkiewicz Population data from the evolving perspective in population research Anna Matysiak, Daniele Vignoli Is there a reversal in the educational gradient in second birth risks? A cross-country comparison of timing and quantum effects Iza Chmielewska, Grzegorz Dobroczek, Paweł Strzelecki The role of analysis based on surveys among immigrants in obtaining additional knowledge about the impact of migration flows on the labor market and the balance of payments in Poland 	<p>Session organizer: Włodzimierz Okrasa</p> <ol style="list-style-type: none"> Oleksandr Osaulenko, Vadym Pishcheiko Ukrainian-Polish Cooperation in the Field Transborder Statistics Grażyna Trzpiot International cooperation of users and producers of public statistics Marek Cierpiął-Wolan The Polish public statistics' contribution to creation of research infrastructure for transborder area studies 	<p>Session organizer: Józef Pociecha</p> <ol style="list-style-type: none"> Jerzy Kowaleski Jan Długosz - Polish pioneer of national socioeconomic science Cezary Kuklo The beginning of statistics in the time of the nobles' Commonwealth and the Duchy of Warsaw Czesław Domański Scientific Society on the way to Public Statistics Cecylia Leszczyńska Population statistics of the Second Polish Republic: institutions, people, sources, processes 	<p>Session organizer: Miroslaw Szreder</p> <ol style="list-style-type: none"> Miroslaw Szreder Sample surveys in the era of big data Jerzy Witold Wiśniewski The statistical information needs of a small enterprise Andrzej Młodak Using the TOPSIS method in an assessment of efficiency of the microdata disclosure control
13.30 - 15.00	Lunch			

	Session 21 03 - Population Statistics - III	Session 22 02 - Survey Sampling and Small Area Estimation English	Session 23 05 - Economic Statistics	Session 24 01 - Mathematical Statistics
	A	B	C	D
15.00 - 16.30	Session organizer: Józefina Hrynkiewicz 1. Magdalena Mojsiewicz The potential of HRST in Poland 2. Teresa Ślaby, Olga Komorowska, Arkadiusz Kozłowski Comparative analysis of poverty's phenomenon among families with a child with disability and families with children without disabilities 3. Piotr Filip, Joanna Stańczak Demographic changes in borderland gminas by the external border of the European Union in Poland in the years 2000-2017 and in the perspective until 2030 4. Piotr Szukalski Statistics of mortality 5. Wojciech Sadłoń Religious Demography of Poland	Session organizer: Janusz L. Wywiął Chairman: Yves Tillé 1. Barbara Kowalczyk, Robert Wieczorkowski Indirect questioning about sensitive features – On modified Poisson and negative binomial item count techniques 2. Jacek Wesołowski Neyman type allocation in domains through basics of linear algebra 3. Wojciech Gamrot Surveying populations when individual sampling costs are not homogenous	Session organizer: Eugeniusz Gatnar 1. Jacek Kotłowski Does the domestic output gap matter for inflation in a small open economy? 2. Aleksandra Hałka Substitution bias of the consumer price index in Poland 3. Jacek Białek Proxies for the Fisher price index	Session organizer: Mirosław Krzyśko Chairman: Mirosław Pawlak 1. Roman Zmyślony Testing Hypotheses about structure of parameters in models with block compound symmetric covariance matrices 2. Tomasz Górecki, Mirosław Krzyśko, Waldemar Wołyński Variable selection in multivariate functional data classification 3. Łukasz Smaga Paired two-sample tests for functional data
16.30 - 17.00	Coffee break			

	Session 25 01 - Mathematical Statistics	Session 26 05 - Economic Statistics	Session 27 10 - History of Polish Statistics	Session 28 08 - Statistical Data
	A	B	C	D
17.00 - 18.30	<p>Session organizer: Miroslaw Krzyško Chairman: Waldemar Wołyński</p> <ol style="list-style-type: none"> Jacek Leśkow Nonstationary time series and the functional approach Janusz L. Wywiał Application of two gamma distributions mixture to financial auditing Łukasz Goczek Estimation of dynamic heterogenous panels 	<p>Session organizer: Waldemar Tarczyński</p> <ol style="list-style-type: none"> Józef Sobota Central Bank activities in the field of statistical research Iwona Markowicz, Paweł Baran, Barbara Jamnicka Intrastat system as a source of data on trade in goods between EU member states Dariusz Kotlewski, Miroslaw Błażej KLEMS productivity accounts for the Polish economy – methodology, implementation and preliminary interpretation of results 	<p>Session organizer: Dariusz Chojecki</p> <ol style="list-style-type: none"> Józef Pociecha The statistical picture of the Polish lands on the eve of the first world war Konrad Wnęk Statistics in Galicia in the autonomous period and its influence on Central Statistical Office in the interwar period Bożena Łazowska Co-operation of the Central Statistical Office with the Institute of Social Economy in social research Agnieszka Piotrowska-Piątek, Małgorzata Sobieraj 56 years of the Statistical Office in Kielce – Office in the perception of selected stakeholders 	<p>Session organizer: Miroslaw Szreder</p> <ol style="list-style-type: none"> Maciej Beręsewicz, Marcin Szymkowiak Methods to reduce the bias of estimators based on big data Kamila Migdal-Najman, Krzysztof Najman Missing data imputation model based on a hybrid neural network in the Big Data analysis Paweł Strawiński, Dorota Celińska Data integration to quantify occupational injury risk wage premium

Day 3
July 12, 2018

9.30 - 10.00	Coffee break			
	Speed Talk P1 04 – Social Statistics	Speed Talk P2 02 - Survey Sampling and Small Area Estimation English	Poster Session P3 Edukacja statystyczna od historii do nowoczesności	Poster Session P4
10.00 - 11.30	A Session organizer: Tomasz Panek Chairman: Jan Zwierzchowski 1. Jacek Liwiński The Impact of Compulsory Schooling on Earnings. Evidence from the 1999 Education Reform in Poland 2. Anna Jasiówka Transplantation of organs in public statistics research 3. Karol Andrzejczak, Marta Pawłowska Research of the frequency of conflicts accompanying succession in family enterprises in the assessment of successors and nestors 4. Paweł Ulman Disability in Public Statistics Research. Data Sources 5. Agnieszka Sompolska-Rzechuła The quality of life of inhabitants of rural areas and cities in the regional perspective based on the example of the West Pomeranian Voivodeship	B Session organizer: Janusz L. Wywiął Chairman: Tomasz Żądło 1. Bartłomiej Janusz Effectiveness and reliability of sampling strategies using additional information for stratification, applied in auditing – results of simulation study 2. Łukasz Wawrowski Indirect estimation of poverty at a local level in Poland 3. Małgorzata Krzciuk On verification of a superpopulation model 4. Tomasz Józefowski, Tomasz Klimanek, Marcin Szymkowiak Use of SPREE estimation to estimate the number of unemployed 5. Iwona Forýś, Mirosław Górska Statistical study of the impact of real estate market determinants the level of development of real estate leasing in Poland	C Session organizer / Chairman: Marta Jankowska 1. Emilia Andrzejczak Statistical Olimpiad 2. Marta Jankowska European Statistics Competition 3. Marta Jankowska, Barbara Lech- Zakrzewska, Beata Zawistowska Educational games and Hackathon • Statmission • TapTheMap 4. Beata Zawistowska, Marta Jankowska The Long Night of Museums 5. Katarzyna Walczuk Statistics without barriers 6. Emilia Andrzejczak, Marta Jankowska 16 educational initiatives of statistical offices The hall will feature a screening of films by the finalists of the European Statistical Competition and an exhibition of works. It will be possible to use the games and applications.	D 1. Katarzyna Cheba, Iwona Bąk Sustainable competitiveness of the economy – from concept to measurement 2. Piotr Łysoń Concept of territorial units neighbourhood in analyses of territorial differences (example of poviaty) 3. Andrzej Bąkowski, Agnieszka Piotrowska-Piątek, Małgorzata Sobieraj Deficit of qualified employees as a barrier to the development of small enterprises in Poland. Results of „the survey of small entities” 4. Krzysztof Łobos, Elżbieta Stańczyk Determinants of the entrepreneurship development in THE SME's sector – chosen regional differences 5. Piotr Wójcik More light on local economic disparities in Poland

	<p>6. Dominik Śliwicki The use of administrative registers in labour market surveys</p>		<p>6. Sylwia Filas-Przybył, Dorota Stachowiak Diversification of the age structure of the Polish urban population</p> <p>7. Monika Stanny, Łukasz Komorowski Evolution of the rural population age structure in the process of demographic transition: Spatio-temporal dynamics</p> <p>8. Beata Bal-Domańska Revitalization in communes in 2015 and 2016 in the light of surveys</p> <p>9. Patryk Barszcz Statistics in Transition new series. An International Journal of the Polish Statistical Association</p> <p>10. Aleksandra Matuszewska-Janica Reasons for women's part-time employment. Classification of EU states</p> <p>11. Kamil Wilak Unemployment and passive unemployment in Poland</p>
11.30 - 12.00	Coffee break		

	Speed Talk P5 04 – Social Statistics continuation of the session P1	Speed Talk P6	Poster Session P7	Poster Session P8
				A B C D
12.00 - 13.00	Session organizer: Tomasz Panek Chairman: Jan Zwierzchowski 7. Marian Kasperski Social statistics compared to surveys in social sciences, for the use of qualification papers 8. Hanna Dudek Econometric aspects of modeling the number of symptoms of material deprivation 9. Maja Rynko, Marta Palczyńska The quality of ICT skills indicators	1. Jacek Tabor Cramer-Wold AutoEncoder 2. Wiesława Gierańczyk, Dominik Śliwicki Labour market areas as a source knowledge about the labour market situation in Poland 3. Joanna Sanetra-Szeliga Economic aspects of culture in the research of the Statistical Office in Kraków	Continuation of the poster session P3	Continuation of the poster session P4
13.00 - 14.00	Lunch			

	Session 29 Special Session English	Session 30 05 - Economic Statistics	Session 31 10 - History of Polish Statistics	Session 32 06 - Regional Statistics
	A	B	C	D
14.00 - 15.30	Session organizer: Włodzimierz Okrasa The role of international journal in the advancement of statistics – a place for Statistics in Transition Editorial Board: 1. Dominik Rozkrut 2. Czesław Domański 3. Graham Kalton 4. Miroslaw Krzyśko 5. Carl-Erik Särndal 6. Janusz L. Wywiał	Session organizer: Waldemar Tarczyński 1. Christian Lis The Importance of Statistical Data in Cost-Benefit Analyses for Investment Projects in Transport Infrastructure 2. Ilona Błaszcak-Przybycińska, Marta Marszałek Household production account as an element of the system of social statistics 3. Aldona Standar The usefulness of statistical methods in estimating the financial risk of municipalities on the example of the risk of excessive indebtedness	Session organizer: Dariusz Chojecki 1. Walenty Ostasiewicz On the crossing paths of statistical thinking (from the historical perspective) 2. Jan Berger The establishment of the Warsaw Statistical Committee in 1887 3. Emilia Andrzejczak, Marta Jankowska Statistical education - from history to the future 4. Elżbieta Stańczyk Spatial differentiation of population changes and decrease of female fertility in interwar Poland in the light of Statistics Poland research	Session organizers: Tadeusz Borys, Małgorzata Markowska 1. Marek Pieniążek Differentiation and evolution of monitoring systems. From regional databases to comprehensive systems 2. Michał Kudłacz Urban sprawl phenomenon in Małopolskie voivodeship. Causes, effects, remedies 3. Romana Głowicka-Wołoszyn, Agnieszka Kozera Indebtedness assessment of Polish metropolises using relative taxonomy methods 4. Agnieszka Tłuczak Global and local spatial statistics in the analysis of regional development diversification 5. Mariola Chrzanowska, Nina Drejerska Selected aspects of commuting in the vicinity of Warsaw
15.30 - 16.00	Coffee break			

16.00-16.30	Plenary Session
	ABC
	Distinguished Invited Speaker
	Carl-Erik Särndal: Influential lines of development in recent decades for Survey Statistics theory and practice
16.30 - 17.30	Final conclusions and closing