

Detailed program of the Conference

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Currently, we can propose you the following detailed programme of the XVlth International Conference CPES/APGI:

Day 1 (Thursday, 21.09.2023)

Speaker (Authors)	Title
10:00 – 11:00 Registration	
11:00 – 11:30 Welcome and opening	
11:30 – 12:30 Opening session (EN) - FOUNDATIONS (J. Zaczek-Peplinska, I. Wyczatek)	
Volker Schwieger	Engineering geodesy for integrated computational design and construction
Angelina Jerjomina, Sander Varbla, Tiit Hion, Artu Ellmann, Hades Geodeesia OÜ Team	Modernization of construction as-built surveying documentation
Hans Neuner, Victoria Kostjak, Walter Loderer, Christian Seywald, Alfred Strauss	Large-scale experiment for testing measurement systems for the monitoring of tunnels during maintenance work
12:30 – 13:00 Coffee break	
13:00 – 14:30 Session 1 (EN) - DEFORMATIONS (M. Mrówczyńska, H. Neuner)	
Janina Zaczek-Peplinska, Krzysztof Karsznia	Functionality assessment of geodetic systems for monitoring displacements of building structures
Michał Czernecki, Przemysław Kuras, Łukasz Ortyl	Evaluation of accuracy of determining deformations and displacements of industrial buildings and linear infrastructure based on UAVs measurements
Svitlana Nesterenko, Kornylia Tretyak	Comprehensive processing of InSAR radar images and GNSS measurements to determine deformations of the Kaniv HPP dam

Speaker (Authors)	Title
Jacek Paziewski , Michał Śmieja, Jacek Rapiński, Katarzyna Stępnik, Rafał Sieradzki, Paweł Wielgosz, Robert Duchnowski, Patrycja Wyszowska, Dariusz Tomaszewski, Artur Janowski, Karol Dawidowicz, Grzegorz Krzan, Jakub Banach, Piotr Srokosz, Radosław Baryła, Beata Milanowska, Dariusz Popielarczyk, Anna Wróblewska, Tomasz Zieliński, Lech Stolecki	IPMOS: the system of precise displacement monitoring based on the integration of low-cost GNSS and accelerometer sensors
Siki Zoltán , Takács Bence	Low-cost cameras to detect movements and deformation
Przemysław Kuras , Daniel Janos, Łukasz Ortyl	Accuracy of low-cost sensors for displacement monitoring
14:30 – 15:30 Lunch	
15:30 – 17:00 Session 2 (EN/PL) - TECHNOLOGY (B. Wolski, Z. Siki)	
Bence Péter Hrutka	Application of Machine Learning to detect building points in photogrammetry-based point clouds to update land registry maps
Lyudmila Gorokhova , Gabriel Kerekes, Volker Schwieger	Camera calibration and alignment of optic axes for image-assisted robotic total station
Grzegorz Pasternak , Janina Zaczek-Peplinska	Application of laser scanning measurement techniques for surface monitoring of a municipal solid waste landfill site
Krzysztof Karsznia , Sławomir Łapiński, Jakub Kłosowski	Validation of the measurement uncertainty of laser scanning in Apple iPhone 13 Pro by utilizing metrological tests and statistical inference
Volodymyr Hlotov , Krzysztof Bakula, Iryna Lupei	Research on precision of determining coordinates of terral points with the use of laser scanner VLP-6
Łukasz Kacprzak	The construction of the Central Communication Port (CPK) from the perspective of geodesy – implementation of modern geodetic aspects
17:00 – 17:30 Coffee break	

Speaker (Authors)	Title
17:30 – 18:30 Poster Session (EN/PL) - (Z. Siejka, B. Takács)	
Henryk Bryś, Kazimierz Ćmielewski, Krzysztof Karsznia	Geometrical reduction of wavelength measurement of electro-optical distance meters (EDM)
Joanna Janicka, Wioleta Błaszczak-Bąk, Andrzej Dumalski, Czesław Suchocki	Monitoring of the technical condition of historical objects in endangered areas on the example of the Franciscan Monastery Church in Barczewo
Karol Krawczyk	Development of a company safety program in mining areas
Damian Kurdek, Ewa Świerczyńska, Krzysztof Książek, Iwona Jankowska	Accuracy of the application of mobile technologies for measurements made in headings of the Kłodawa Salt Mine
Maria Mrówczyńska, Jacek Sztubecki, Maciej Niedostatkiwicz, Tomasz Majewski	Vertical displacements prediction of historic buildings on the example of the revitalized Carnot wall
Zbigniew Muszyński, Marek Wyjadłowski, Paulina Kujawa	Application of TLS for monitoring of reinforced concrete structures
Grzegorz Oleniacz	Assessment of the suitability of the area for construction purposes in the geo-environmental aspect on the example of Rzeszow
Zbigniew Siejka	Accuracy rating for precise positioning of points with the use of multi-GNSS and RTN correction from the GBAS system
Siki Zoltán	Movement detection in engineering surveying networks
Izabela Skrzypczak	Risk assessment of construction infrastructure in mass movement hazard areas on the example of the Carpathian Foothills
Ewa Świerczyńska, Krzysztof Karsznia, Maciej Smaczyński, Krzysztof Książek, Piotr Rozenbajgier	Assessing the technical state of historical buildings using Terrestrial Laser Scanning and close-range aerial photogrammetry
Patrycja Wyszowska, Robert Duchnowski	Identification and determination of planes from TLS data using robust Msplrit estimation
Adam Doscocz	Multi-variant large-scale map data acquisition for small investment area and other spatial territory

Speaker (Authors)	Title
19:00 – 00:00 Dinner / Barbecue	

Day 2 (Friday, 22.09.2023)

Speaker (Authors)	Title
07:30 – 09:00 Breakfast	
09:00 – 10:30 Session 3 (EN/PL) - PRACTICE (W. Błaszczak-Bąk, Cz. Suchocki)	
Natalia Kablak , Janusz Walo, Petro Dvulit, Ryszard Szpunar, Tomasz Olszak, Dorota Marjańska	The implementation concept of an international gravimetric datum on the territory of western Ukraine
Waldemar Odziemczyk	A new hybrid algorithm for identification of reference points in a monitoring network
Michał Strach	Comparative analysis of rail route inventory techniques for rail track alignment adjustment
Magdalena Wróblewska , Marcin Grygierek	The use of geodetic measurements in the assessment of the technical condition of road pavement - case study
Natalia Przesmycka , Bartłomiej Kwiatkowski	Analiza wykorzystania skanów 3D w monitoringu stanu technicznego obiektów zabytkowych na przykładzie dawnej stodołni Vetterów w Lublinie
Lech Saloni , Janina Zaczek-Peplinska	Current conditions of economic activity in the field of engineering geodesy - law, market, competition of the entrepreneurs
10:30 – 11:00 Coffee break	
11:00 – 13:00 Zebranie Sekcji Geodezji Inżynieryjnej SGP (PL)	
13:00 – 14:00 Lunch	
14:00 – 15:30 Session 4 (EN) - RESEARCH (I. Skrzypczak, M. Strach)	
Bogdan Wolski , Grzegorz Granek	Reliability assessment of the vertical displacement reference system on the basis of periodic measurements of elevation control net

Speaker (Authors)	Title
Zuzanna Rakoska , Łukasz Piasta, Lech Saloni	The issue of real-time measurement data presentation on the example of measurements carried out automatically on the IMSGeo platform
Maria Elżbieta Kowalska , Janina Zaczek-Peplinska, Łukasz Piasta	Selected aspects of acquisition and processing of measurement data in the IMSGeo system
Leszek Ornoch, Krzysztof Karsznia, Andrzej Olszewski	Investigating the structural condition of a historic building using the Ultraxis bi-directional precise inclinometer
Krzysztof Karsznia , Ewa Świerczyńska, Krzysztof Książek, Waldemar Odziemczyk, Sławomir Łapiński, Wioletta Lisowska	Evaluation and modelling of geometry changes of historical building structures located in endangered areas
Krzysztof Karsznia , Daniele Cifaldi, Davide Mazza	Application and assessment of proprietary measurement sensors in the study of structural deformations of historical objects
15:30 – 16:00 Coffee break	
16:00 – 17:30 Session 5 (EN) - EDM / GNSS (S. Cellmer, G. Oleniacz)	
Artur Fischer , Sławomir Cellmer	Regularization of approximate GNSS baseline coordinates for Modified Ambiguity Function Approach
Katarzyna Stępnia k, Paweł Wielgosz, Grzegorz Kurpiński, Mateusz Seta, Jacek Paziewski, Rafał Sieradzki	Stability analysis of the GNSS network for displacement monitoring at the mining area
Bence Takács	RTK monitoring under high ionospheric activity
Rafał Sieradzki , Jacek Paziewski, Katarzyna Stępnia, Anna Wróblewska	On the correlation of GNSS data derived from low-cost receivers
Krzysztof Książek , Sławomir Łapiński, Janina Zaczek-Peplinska	Analysis of control networks' sensitivity according to an internal reliability level
General discussion - (J. Zaczek-Peplinska, V. Schwieger)	

Speaker (Authors)	Title
17:30 Summarizing and closing the conference	