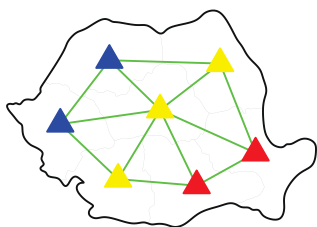




GEOSPATIAL TECHNOLOGIES for SUSTAINABLE DEVELOPMENT of AGRICULTURE and BUILT ENVIRONMENT



Săptămâna Geodeziei Românești Romanian Surveying Week

21 - 25 Octombrie 2025
Timișoara, România



Academia de Științe
Technice din România
Technical Sciences
Academy of Romania

EVENT PROGRAMME



Save the Planet!

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THANK YOU!



The most important event for the Romanian surveying professional community reached already its 6th edition! **Romanian Surveying Week (RSW)**, organized by the Romanian Surveyors Union will be hosted by Timisoara, between 21 and 25 of October.

We are enthusiastic with organizing this event in partnership with the **Faculty of Civil Engineering from Politehnica University Timisoara** and the **Faculty of Agriculture from University of Life Science "King Mihai I" from Timisoara**. This year we are happy to welcome the representative of **FIG Commission 2** and **FIG Commission 8**, having their own events within RSW. Topics as geodesy, surveying, cadastre, professional education, spatial planning and development, local administration, GIS and other related areas, will be of interest for Romanian and foreign professionals from both private and academic sectors.

We are looking forward to welcoming you in Timisoara, the capital of Romania's West development region, for **the sixth edition of Romanian Surveying Week!**



Eng. Mircea AFRĂSINEI
*President of Romanian
Surveyors Union*



Dear colleagues, students and professional surveyors, it is a great honor to welcome you to the **Romanian Surveying Week**, event which will be held in Timisoara at the two universities, namely: **Politehnica University Timisoara** and **University of Life Science "King Mihai I" Timisoara**.

This week brings close-up the surveying area and the way in which knowledges, technology and innovations in this field are transforming key sectors such as construction, architecture, agriculture and sustainable development in Timisoara. In this context, I emphasize the essential role that surveying plays in infrastructure development and smart resource management.

The aim of the programmed activities is to encourage relevant debates and facilitate collaboration between students, professors and practitioners, academia, business and public administration thus contributing to the improvement of professional training and research in the field.

I invite you to actively participate, share ideas and connect with other professionals.
I look forward to your contributions, which will enrich the discussions and strengthen the geodesy community in Romania.



**Assoc.
Prof. Ph.D. eng. Florin Drăgan**
*Rector of the Politehnica
University of Timișoara*



Dear guests, distinguished colleagues,
University of Life Science "King Mihai I"

Timisoara has the great honor to welcome you to our campus, on the occasion of the **Romanian Surveying Week 2025**, a reference event for the Romanian surveying community.

Our participation in this initiative of the **Romanian Surveyors Union** reflects our institution's commitment to supporting academic excellence and cooperation between the academic and professional environment, in a field essential for the progress and modernization of contemporary society.

We congratulate all the participants and express our confidence that the debates and activities of this week will contribute to the consolidation of knowledge and the development of new directions of collaboration.

We wish you success and a pleasant stay at our University!



**Prof. Habil. PhD. Cosmin
Alin Popescu**

*Rector of the University of Life
Science "King Mihai I" from
Timișoara*

Romanian Surveying Week, sixth Edition, Timișoara 2025

"From Learning to Leading: Young Surveyors in geospatial solutions for a sustainable world"

Romanian Young Surveyors Conference



Tuesday, 21 October, 2025

**University of Life Science
"King Mihai I" from Timișoara**

Time	Event and Chair/Keynote Speaker (KS)	Place
08:00 → 17:00	Participation registration	Lobby Rectorate Building
09:00 → 10:00	Welcome Speeches "Iulian Drăcea" Aula Chair – Iaroslav ZIFCEAC , President of the Youth Commission of the Romanian Surveyors Union Speakers: ➤ Cosmin Alin POPESCU, Rector of the University of Life Science "King Mihai I" from Timișoara ➤ Mircea AFRĂSINEI, President of the Romanian Surveyors Union ➤ Michalis KALOGIANNAKIS, FIG Vice President (Greece) ➤ Dimo TODOROVSKI, Chair of the FIG Commission 2 „Professional Education “ (The Netherlands) ➤ Ioan Sorin HERBAN, Vice Dean of the Faculty of Civil Engineering from Politehnica University Timisoara	Aula Rectorate Building
10:00 → 10:10	Starting Exhibition ➤ Cosmin Alin POPESCU, Rector of the University of Life Science "King Mihai I" from Timișoara ➤ Cosmin DRAGOMIR, Administrator KOMORA ENGINEERING ➤ Mircea AFRĂSINEI, President of the Romanian Surveyors Union	Lobby Rectorate Building
10:10 → 10:30	Group Photo & Young Surveyors' Coffee Social	Lobby Rectorate Building

Time	Event and Chair/Keynote Speaker (KS)	Place
10:30 → 11:30	Keynote sessions Surveyors Leading Tomorrow's Challenges Chair – Mircea NAP, Vice President of the Youth Commission of the Romanian Surveyors Union ➤ Alexandru Iulian ILIESCU, Faculty of Land Reclamation and Environmental Engineering, University of Agronomic Sciences and Veterinary Medicine in Bucharest: Early dilemmas in one's career path ➤ Simion BRUMĂ, BDS Topografie S.R.L.: Surveying with a Wink: From Ground Zero to Geospatial Guide	"Iulian Drăcea" Aula Rectorate Building
11:30 → 12:30	Technical Session 1 The Geospatial Industry – Trends and Solutions for the Future Chair – Silviu Cristian RĂDUCU, Vice President of the Youth Commission of the Romanian Surveyors Union ➤ Michalis KALOGIANNAKIS, FIG Vice President (Greece): The Role of Surveyors in Solving Global Challenges and the Power of Collaboration ➤ Andreea VASILE, Education Manager ESRI România: Revolutionizing Workflows through Geospatial Platform: Five ways surveyors can leverage GIS ➤ Kengo OKADA, CEO of RIPRO Corporation (Japan): Japanese Surveyor Marker	"Iulian Drăcea" Aula Rectorate Building
12:30 → 13:30	LUNCH	Event Tent

Time	Event and Chair/Keynote Speaker (KS)	Place
13:30 → 15:00	Technical Session 2 Innovations in Geodetic Data Acquisition and Processing – Student Presentations Chair – George POPESCU, University of Life Sciences “King Michael I” of Romania from Timișoara, Faculty of Agriculture, Land Measurements and Cadastre ➤ Dan-Radu BÂRDAN, Politehnica University of Timișoara: Use of Modern Technologies (Mobile LiDAR Scanners) for Measuring Historical Buildings – Case Study ➤ Maria-Rahela BILAN, Politehnica University of Timișoara: RTK Positioning Accuracy in Urban Environments: A Comparative Study of Different GNSS Receiver Generations ➤ Mălina-Maria BÎRSAN, Gabriella-Julia DEBRECZENI, University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca: Use of Electro-Optical Devices in Surveying ➤ Clara-Elena BOSNEA, Gheorghe Asachi Technical University of Iași: Accuracy Evaluation of Leveling Equipment in Field Conditions: Case Study for Leica LS15 Digital Level ➤ Mihai-Valentin GANGU, University of Agronomic Sciences and Veterinary Medicine of Bucharest: Application of Artificial Intelligence Algorithms in Volume Estimation of Gravel Deposits through Point Cloud Processing ➤ Vladimir IORDACHE, Technical University of Civil Engineering of Bucharest: Development of a Multifunctional Topographic Software Using Open-Source Resources ➤ Elena-Raluca VADANA, Gheorghe Asachi Technical University of Iași: Termux/VSC Application for GNSS/INS Positioning Evaluation Using a Smartphone ➤ Andra VIȘAN, University of Agronomic Sciences and Veterinary Medicine of Bucharest: Reality Capture in Construction: Laser Scanning for As-Builts ➤ Bogdan SIMION, University of Life Science “King Mihai I” from Timișoara: Beyond NDVI: A hybrid CNN and pixel-based analysis approach for multiannual assessment of surface dynamics and vegetation health from RGB images in the Banat region	“Iulian Drăcea” Aula Rectorate Building

Time	Event and Chair/Keynote Speaker (KS)	Place
15:00 → 15:30	Coffee Break	Lobby Rectorate Building
15:30 → 16:30	Technical Session 3 Smart GIS and Cadastre for Urban and Rural Development – Student Presentations	“Iulian Drăcea” Aula Rectorate Building
	Chair – Roberta JIANU, Faculty of Civil Engineering from Politehnica University Timișoara ➤ Cristian-Dieter GOLDA, Politehnica University of Timișoara: Evaluation of Mobile GNSS Applications for Cadastral Surveying: Comparison with RTK ➤ Iasmina Maria JURESCU, Politehnica University of Timișoara: GIS Applications in Urban Planning: Assessing Building Function and Photovoltaic Potential in Cerneteaz Locality, Western Romania ➤ Iulia Maria MOGA, 1 Decembrie 1918 University of Alba Iulia: Sustainable Street Development for Cities ➤ Georgeta PETRAȘCU, Politehnica University of Timișoara: Modern Geodetic Methods Used for Field Data Acquisition and GIS Integration for Building Expertise ➤ Cristina POGONȚU, Technical University of Moldova (TUM): Management of Underground Infrastructure in the Republic of Moldova Using 3D Cadastre and Existing Geographic Information Systems ➤ Anda Mădălina VUȘCAN, University of Life Sciences “King Mihai I” from Timișoara: Integration of the USLE Model and GIS Technologies in Soil Erosion Analysis. Case Study ➤ Florina BURESCU, University of Life Sciences “King Mihai I” from Timișoara: Assessment of Land Use Dynamics and Prediction of Changes through GIS Techniques. Case Study	
16:30 → 17:30	RYSC Meet your Sponsor	

Time	Event and Chair/Keynote Speaker (KS)	Place
	Chair – Iaroslav ZIFCEAC, President of the Youth Commission of the Romanian Surveyors Union	
19:30 → 22:30	RYSC Social Event	Curtea Berarilor Restaurant



Thursday, 23 October, 2025

**University of Life Science
"King Mihai I" from Timișoara**

Time	Event and Chair/Keynote Speaker (KS)	Place
14:30 → 16:00	RYSC YS Contest Kickstart – Field Phase	Biserica cu hramul „Sfântul Ierarh Nicolae” a Parohiei Timișoara Nord, situată în incinta Universității de Științele Vieții „Regele Mihai I” din Timișoara
	Chair – Adrian ALIONESCU, Faculty of Civil Engineering from Politehnica University Timisoara	



Friday, 24 October, 2025

**University of Life Science
"King Mihai I" from Timișoara**

Time	Event and Chair/Keynote Speaker (KS)	Place
09:00 → 12:00	RYSC YS Contest Kickstart – Lab Phase	Laboratory Room
	Chair – Iaroslav ZIFCEAC, President of the Youth Commission of the Romanian Surveyors Union	
10:30 → 10:50	Coffee Break	Lobby Rectorate Building
12:30 → 13:30	LUNCH	Event Tent

"Geospatial technologies for sustainable development of agriculture and built environment"

International Conference



Tuesday, 21 October, 2025

Time	Event and Chair/Keynote Speaker (KS)	Place
19:00 → 21:00	<i>Romanian Surveying Week</i> <i>Welcome Cocktail</i>	Opera Hotel



Wednesday, 22 October, 2025

**Conference Center of
Politehnica University
Timișoara**

Time	Event and Chair/Keynote Speaker (KS)	Place
08:00 → 17:00	Participants registration	Lobby Conference Center
09:30 → 11:00	Opening Ceremony & Welcome Speeches Chair – Mircea AFRĂSINEI, President of the Romanian Surveyors Union Keynote Speakers: ➤ Florin DRĂGAN, Rector of the Politehnica University of Timișoara ➤ Dorin CAMEN, Vice-Rector for International Relations, University of Life Sciences "King Mihai I" from Timișoara ➤ Radu-Dinel MIRUȚĂ, Minister of Economy ➤ Florin SAVA, Honorary councilor of Minister of Education and Research ➤ Mircea Viorel POPA, Deputy General Director of the National Agency for Cadastre and Land Registration ➤ Michalis KALOGIANNAKIS, FIG Vice President (Greece) ➤ Ionuț Cristian SĂVOIU, Secretary of State in the Ministry of Transportation and Infrastructure ➤ Liliana ONET, Subprefect of Timiș ➤ Mircea STOIAN, President of PATROCAD	Auditorium Aula

Time	Event and Chair/Keynote Speaker (KS)	Place
	➤ Dănuț Dorin MICULESCU, Public Notary, Timișoara Chamber of Public Notaries ➤ Nicolae DIMA, Mining Faculty, University of Petroșani ➤ Aleksandar MILOSAVLJEVIĆ, Association of Surveyors of Serbia ➤ Valeriu MANOLACHE, President of APCGC	
11:00 → 11:15	Starting Exhibition – Photo session	Lobby Conference Center
	➤ Mircea STOIAN, Administrator GAUSS ➤ Mircea AFRĂSINEI, President of the Romanian Surveyors Union ➤ Florin DRĂGAN, Rector of the Politehnica University of Timișoara	
11:15 → 11:30	Coffee Break	Lobby Conference Center
11:20 → 12:30	Keynote speakers' presentation – Plenary session <i>Bridging BIM and Geospatial Data: Towards a Digital Built Environment Framework for Sustainable Development</i> Chair – Prof.Habil.PhD.eng. Ana–Cornelia BADEA , Faculty of Geodesy, Technical University of Civil Engineering Bucharest Keynote Speakers: ➤ Nicolae Andrei CRIȘAN, Politehnica University of Timișoara: Digital Built Environment in Romania: Roadmap for BIM ➤ Dalton–Luiz LEMOS II, Campus Florianópolis of the Federal Institute of Education, Science and Technology of Santa Catarina, Brazil: From Data to Decisions: The Role of Geospatial Technologies in Sustainable Land and Resource Management	Auditorium Aula
12:40 → 13:40	LUNCH	ZAZA Restaurant
13:50 → 15:00	Round Table – Cadastre Chair – Mircea AFRĂSINEI , President of the Romanian Surveyors Union	Auditorium Aula

Time	Event and Chair/Keynote Speaker (KS)	Place
Keynote Speakers: ➤ Mircea Viorel POPA, Deputy General Director of the National Agency for Cadastre and Land Registration ➤ Aliona GRĂDINARU, Vice President of the Romanian Surveyor Union, South-East region ➤ Aleksandar MILOSAVLJEVIĆ, Association of Surveyors of Serbia ➤ Mircea STOIAN, President of PATROCAD ➤ Sorin Alin CONSTANTIN, President of Timiș Branch of Romanian Surveyors College		
15:00 → 15:30	Coffee Break	Foyer
15:30 → 17:30	Sponsors presentations – Plenary session Chair – Alina Nicoleta POPESCU, Heveco Ploiești Mircea STOIAN, Gauss Timișoara ➤ S.C. CRAMELE RECAȘ S.R.L. București – Ioan GEORGIU ➤ S.C. SURVEY TOPO SOLUTIONS S.R.L. Cluj-Napoca – David PĂVĂLOAIA ➤ S.C. HEVECO S.R.L. Ploiești – Cosmin ROTARU ➤ S.C. KOMORA ENGINEERING S.R.L. București – Cosmin DRAGOMIR ➤ S.C. CORNEL & CORNEL TOPOEXIM S.R.L. București – George MERCIU ➤ S.C. GAUSS S.R.L. Timișoara – Cristian GRĂDINARU ➤ S.C. BLACK LIGHT S.R.L. Timișoara – Claudiu TOMA ➤ S.C. TOP GEOCART S.R.L. București – Mihai AVĂDANEI ➤ S.C. CONTROL SURVEY S.R.L. București – Lucian HUMĂ	Auditorium Aula
19:00	UGR, FIG Commissions 2&8 dinner	ZAZA Restaurant
 Thursday, 23 October, 2025 Conference Center of Politehnica University Timișoara		
Time	Event and Chair/Keynote Speaker (KS)	Place
08:30 → 15:00	Participants registration	Lobby Conference Center

Time	Event and Chair/Keynote Speaker (KS)	Place
09:30 → 11:00	FIG Commission 2 Meeting Advancements in Satellite Data Processing and Applications: From AI-Assisted Analysis to Geodetic Solutions Chairs – Charles ATAOKA, Vice Chair of FIG Commission 8 Professor Habil.PhD.eng. Ersilia Valeria ONIGA, Pro-Dean, "Gheorghe Asachi" Technical University of Iași, Romania ➤ Andreea Florina JOCEA, Liviu PORUMB, Lucian NECULA, Alexandru MATEICIUC: AI-Assisted analysis of SENTINEL -2 Imagery for precision agriculture: a comparative approach ➤ Sorin NISTOR, Aurelian-Stelian BUDA, Norbert-Szablocs ȘUBA: Analysing the results from Beidou satellites in GAMIT/GLOBK ➤ Carmen MAFTEI: From hard copy to remote sensing: the importance of maps in environmental applications ➤ Alina Corina BĂLĂ, Floarea-Maria BREBU, Ioan Sorin HERBAN, Clara – Beatrice VÎLCEANU: Cloud and snow detection and mapping algorithm using FY-3D MERIS Satellite data - Poster	Auditorium Aula
11:00 → 11:30	Coffee Break	Lobby Conference Center
11:30 → 13:00	Round Table Global Challenges in Academia and how they are affecting Romania Chair – Dr. Dimo Todorovski, Chair of FIG Commission 2 ➤ Professor PhD. Dorin CAMEN, Vice Rector for International Relations, University of Life Sciences "King Mihai I" from Timișoara (ULST) ➤ Prof.Habil.PhD.Eng. Ioan Sorin HERBAN, Vice Dean, Faculty of Civil Engineering, Politehnica University Timisoara ➤ Prof.Habil.PhD.eng. Ana-Cornelia BADEA, Faculty of Geodesy, Technical University of Civil Engineering Bucharest	Auditorium Aula

Time	Event and Chair/Keynote Speaker (KS)	Place
	➤ Prof.Habil.PhD.eng. Tudor SĂLĂGEAN, Dean, Faculty of Forest and Cadastre, USAMV Cluj-Napoca ➤ Prof.Habil.PhD.Eng. Sorin NISTOR, University of Oradea	
13:10 → 14:10	LUNCH	ZAZA Restaurant
14:20 → 15:30	Technical Sessions 1 – Plenary session Mapping the Future in 3D: UAVs, Laser Scanning, and Web-Based Tools for Sustainable Geodetic Applications Chair – Lecturer PhD.eng. Alina Corina BĂLĂ – Faculty of Civil Engineering, University Politehnica Timisoara, Romania ➤ Ana-Cornelia BADEA, Gheorghe BADEA, Daniela RABOJ, Anca Patricia GRĂDINARU, Anca ENE: GEOGEBRA 3D Calculator as a tool for interactive learning method in geodetic engineering ➤ Anca ENE, Ana – Cornelia BADEA, Gheorghe BADEA, Anca-Patricia GRĂDINARU: Exploring the 15 Minutes City Concept using Commercial and Open-Source GIS Software: Evaluation of Bucharest Neighborhoods ➤ George CRISTIAN, Sorin HERBAN, Carmen GRECEA, Clara – Beatrice Vilceanu, Andreea Diana CLEPE: Integrating UAV photogrammetry and Python based workflows for building footprint extraction ➤ Paul SESTRĂȘ: Fusing Earth and Engineering: Toward Intelligent Terrain Representation for Geohazard and Construction Applications ➤ Athanasios ILIODROMITIS, Iraklis DARAMOUSKAS, Antrei DELIGIANNIS: Integrating 3D Laser scanning & UAV techniques for road bridge inspection ➤ Vassilis PAGOUNIS, Antrei DELIGIANNIS, Panagoula KOPELOU, Drd. Paul ZDRENGHEA, Clara – Beatrice VÎLCEANU, Sorin HERBAN: Web-based 3D geospatial tools for documenting, preserving, and sustainably managing built cultural heritage: a case study of the stone bridge in Băile Herculane, România	Auditorium Aula
15:30 → 16:00	Professionals and Entrepreneurs Session Exim Bank – financial services presentation	Auditorium Aula

Time	Event and Chair/Keynote Speaker (KS)	Place
16:00 → 16:20	Coffee Break	Lobby Conference Center
16:20 → 17:30	Technical Sessions 2 – Plenary session Geospatial Technologies in Support of Sustainable Development Chair – Assoc. Prof. Eng. Adrian ȘMULEAC , University of Life Science “King Mihai I” from Timișoara ➤ Cornel PĂUNESCU, Florentina – Cristina MERCIU, George – Laurențiu MERCIU: Using GIS to assess adaptive reuse of industrial heritage sites for sustainable development. Case study: municipality of Timișoara ➤ George – Laurențiu MERCIU, Cornel PĂUNESCU, Florentina – Cristina MERCIU: Using of GIS analisys to elaborate the green cadastral. Municipality og Galați, as case study ➤ Maria OVDII, Livia NISTOR – LOPATENCO: Geomatics for sustainable development in the republic of Moldova ➤ Pietro GRIMALDI: Serracapriola GIS ➤ Pietro GRIMALDI: XVII International Training Summer School (ITSS 2026)	Auditorium Aula
19:30 → 23:30	GALA Dinner	Recaș Winery



Friday, 24 October, 2025

University of Life Science
“King Mihai I” from Timișoara

Time	Event and Chair/Keynote Speaker (KS)	Place
10:00 → 12:00	UGR National Council Chair – Mircea AFRĂSINEI , President of the Romanian Surveyors Union	“Iulian Drăcea” Aula Rectorate Building
12:00 → 12:30	Closing & Student Awards Ceremony	“Iulian Drăcea” Aula Rectorate Building
12:30 → 13:30	LUNCH	Event Tent

ORGANIZERS

Romanian Surveyors Union (UGR)

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Politehnica University Timișoara

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University of Life Science "King
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International Federation of Surveyors

FIG Commission 2 – Professional Education

FIG Commission 8 – Spatial planning and
development

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