

23. listopad 2020.

Petak

14:30-15:30

SESIJA 7

Geodesy in construction

Voditelj sesije: Rinaldo Paar

1. **Branko Milovanović, Slavko Vasiljević, Jovan Popović, P. Vranić:** *Influence of Given Parameter Errors on Accuracy of Tunnel Breakthrough by Height*

2. **Radovan Đurović, Zoran Sušić, Mehmed Batilović, Gojko Nikolić, Miloš Pejaković, Željko Kanović:** *Design and implementation of special-purpose geodetic networks for the infrastructure facilities of the highway*

3. **Zrinjski M., Tupek A., Barković Đ., Polović, A. Novosel, T. Vidoš M.:** *Determination and Analysis of Chimney Inclination*

15:30-16:00

PAUZA

16:00-17:30

SESIJA 8

Software development and filter application

Voditelj sesije: Thomas Wunderlich

1. **Pejović M., Bursać P., Kilibarda M., Sekulić A. and Bajat B.:** *The R package surveyor for Engineering Surveying Computation*

2. **Marko Pejović, Milutin Pejović:** *Customize Road Design by Using Modular Subassemblies*

3. **Pavol Kajánek, Alojz Kopáček, Ján Erdélyi, Peter Kyrinovič:** *Adaptive Kalman filter for IMU and optical incremental sensor fusion*

4. **Miodrag Roić, Siniša Mastelić-Ivić, Thomas Wunderlich:** *Recent Applications of Kalman Filters in Structural Deformation Monitoring*

17:30-18:00

ZATVARANJE KONFERENCIJE

Konferencija se organizira i u suradnji s HKOIG te je uvrštena u Program stručnog usavršavanja HKOIG. Sukladno Programu sudionicima konferencije dodijeliti će se 20 akademskih sati iz područja 1, 2 i 3.

SPONZORI



aplitop



TEHNOMEHANIKA d.o.o.

GeoMIR•Desktop
Softver za geodetsko računanje i crtanje

INGEO&SIG2020



Sveučilište u Bratislavi, Građevinski fakultet,
Zavod za geodeziju

Hrvatsko geodetsko društvo

Sveučilište u Zagrebu, Geodetski fakultet

FIG komisija 6

8. INGEO međunarodna
konferencija o
inženjerskoj geodeziji
4. SIG međunarodni
simpozij o inženjerskoj
geodeziji

INGEO&SIG2020

PROGRAM
virtualna konferencija

22-23. listopad 2020.

22. listopad 2020.

Četvrtak

09:00-09:30

OTVORENJE KONFERENCIJE

09:30-11:00

SESIJA 1

BIM, Engineering of large investments

Voditelj sesije: Miodrag Roić

1. **Thomas Wunderlich:** *Misalignment – Can 3D BIM Overrule Professional Setting-out According to Plane and Height?*
2. **Ján Erdélyi, Peter Kyrinovič, Alojz Kopáček, Richard Honti:** *Building Information Modelling of Industrial Plants*
3. **Richard Honti, Ján Erdélyi, Gabriela Bariczová, Alojz Kopáček, Peter Kyrinovič:** *Possibility of Use of BIM in Automated Geometry Check of Structures*
4. **Tomáš Funtík, Pavol Mayer:** *The Impact of User's Experience Handling the Non-Graphical Information to the Overall Reliability of Open Format IFC*

11:00-11:30

PAUZA

11:30-13:00

SESIJA 2

Construction monitoring

Voditelj sesije: Alojz Kopaček

1. **Weinhuber A., Wiedemann W., Wasmeier P., Wunderlich T.:** *No second Chance – Monitoring destructive Bridge Load Tests*
2. **Boštjan Kovačič, Sebastian Toplak, Samo Lubej.:** *The execution of non-contact monitoring with the purpose of assessing potential bridge damages*
3. **Josip Peroš, Rinaldo Paar, Vladimir Divić.:** *Application of fused laser scans and image data – RGB+D for displacement monitoring*
4. **Pandžić J., Vranić P., Pejić M. and Popović J.:** *TLS-based 3D Deformation Monitoring of Church Bell Tower Geometry*

13:00-14:30

PAUZA

22. listopad 2020.

Četvrtak

14:30-15:30

SESIJA 3

Cultural heritage and land consolidation

Voditelj sesije: Siniša Mastelić Ivić

1. **Stojnović V., Virgej-Đurašević R., Kulić S., Mihaljević P., Ambroš F., Zahtila D., Kamin A.:** *Surveying of industrial heritage - Sitarjevec mine*
2. **Nikola Vučić:** *The role of 3D cadastre in the preservation of historical cultural heritage*
3. **Hrvoje Tomić, Siniša Mastelić Ivić, Rinaldo Paar, Ante Marendić:** *Preliminary Analysis of Criteria for Land Consolidation in Protected Areas*

15:30-16:00

PAUZA

16:00-17:30

SESIJA 4

GNSS, Augmented reality, Laser trackers

Voditelj sesije: Peter Kyrinovič

1. **Marta Pokupić, Matej Varga, Zvonimir Nevistić, Marijan Grgić, Tomislav Bašić:** *CroCoord v1.0 – an Android application for nearly real-time 3D PPP multi-frequency multi-GNSS static surveying using smartphones*
2. **Iva Cibilić, Valentina Vuković and Vesna Poslončec-Petrić:** *Augmented Reality app – exploring and wayfinding around Faculty*
3. **Radoslav Choleva, Alojz Kopáček, Ján Erdélyi:** *Analysis of warm-up effect on laser tracker measurement performance*
4. **Carlos Ramon Moraila Valenzuela, Gilbert Ferhat:** *Using high-sensitivity receivers for differential GPS positioning*

17:30-19:00

POZVANO PREDAVANJE

Voditelj sesije: Tomislav Bašić

Borna Gradečak: *Construction of the Pelješac bridge – the role and the significance of geodesists*

Predsjednik znanstvenog odbora:

Prof. dr. sc. Alojz Kopáček, STU Bratislava, Slovačka

Predsjednik organizacijskog odbora:

Doc. dr. sc. Rinaldo Paar, SUZ GF Zagreb, Hrvatska

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Petak

09:30-11:00

SESIJA 5

Deformation measurement I

Voditelj sesije: Jan Erdelyi

1. **Stathis Stiros:** *Deflections and modal frequencies of bridges: Constraints and limitations in results of geodetic monitoring*
2. **Schneid S., Berger P. and Zalovic L.:** *Automated deformation monitoring – Application of geodetic sensor networks and least squares adjustment in structural monitoring projects*
3. **Gospavić Z., Šušić V. and Pavlović S.:** *Capturing dam geometry by Lidar and multibeam technology for visualization of structural deformations – Case study Dam Bečej*
4. **Ferhat G., Rouillon H. and Malet J. P.:** *Analysis of atmospheric refraction on Electronic Distance Measurements applied to landslide monitoring*

11:00-11:30

PAUZA – predstavljanje tvrtke Arc Geo d.o.o.

11:30-13:00

SESIJA 6

Deformation measurement II

Voditelj sesije: Ante Marendić

1. **Igor Grgac, Rinaldo Paar, Ante Marendić, Ivan Jakopc:** *Testing capabilities of Locata positioning system for displacement measurements*
2. **Lukas Raffl, Thomas Wunderlich:** *Challenges and Hybrid Approaches in Alpine Rockslide Prevention – An alarming Case Study*
3. **Ivan Jakopc, Ante Marendić, Rinaldo Paar, Igor Grgac, Hrvoje Tomić, Martin Krkač, Tomislav Letunić:** *Periodic Monitoring of the Kostanjek Landslide using UAV*
4. **Capitão R., Fortes C.J.E.M., Lemos R. and Henriques M. J.:** *The Use of a UAV to Improve the OSOM+ Monitoring Programme of Maritime Structures*

13:00-14:30

PAUZA