

# ESIS Video recordings

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The background features a dark teal and blue color scheme. On the right side, there is a stylized wireframe face in light blue, appearing to be composed of a mesh of lines. To the left of the face, there are several interlocking gears of various sizes, also in shades of blue and teal. The overall aesthetic is technical and futuristic.

Second International Symposium on  
Risk Analysis and Safety of Complex  
Structures and Components (IRAS 2023)

# **The Second International Symposium on Risk Analysis and Safety of Complex Structures and Components (IRAS 2023) Belgrade, Serbia**

The Second International Symposium on Risk Analysis and Safety of Complex Structures and Components (IRAS 2023) is organised by ESIS TC12 on Risk Analysis and Safety of Large Structures and Components (in-team TC12), which will take place in Belgrade, Serbia, located at the confluence of two large rivers, Sava and Danube, 2-4 April 2023. This Symposium is intended to be a forum of discussion of the recent advances in maintenance, safety, risk analysis, probabilistic assessment, life-cycle performance, fatigue, fracture, damage mechanics, numerical simulation of a wide range of infrastructures, such as, engineering technical systems, transportation systems, bridges, buildings, dams, railways, underground constructions, wind and transmission towers, offshore platforms, pipelines, naval vessels, oceanic structures, nuclear power plants, airplanes and other types of structures including aerospace and automotive structures are considered. It is expected contributions from engineers, metallurgists, material scientists, among others, allowing a very multidisciplinary discussion. This ESIS Summer School was organized in the frame of the ECF20 that was held in Trondheim (Norway) in 2014.

## **ORGANIZING COMMITTEE**

Aleksandar Sedmak, University of Belgrade, Serbia

Milos Milosevic, Innovation centre of Faculty of Mechanical Engineering, Serbia

Isaak Trajkovic, Innovation centre of Faculty of Mechanical Engineering, Serbia

Branislav Djordjevic, Innovation centre of Faculty of Mechanical Engineering, Serbia

Milos Djukic, University of Belgrade, Serbia

Ana Petrovic, University of Belgrade, Serbia

Simon Sedmak, Innovation centre of Faculty of Mechanical Engineering, Serbia

## VIDEO-PRESENTATIONS

Presentation title	Authors	DOI
The size and notch effect on additive manufactured polymers	Liviu Marsavina	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.1">https://doi.org/10.53254/ESISTUBE.IRAS2023.1</a>
Exploring the Local Fatigue Approaches to Improve the Structural Integrity of Metallic Structures and Mechanical Components	Abilio M.P. de Jesus)	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.2">https://doi.org/10.53254/ESISTUBE.IRAS2023.2</a>
Bioinspired strategy to break trade-off between strength and toughness	Chao Gao	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.3">https://doi.org/10.53254/ESISTUBE.IRAS2023.3</a>
Fatigue lifetime of a howitzer cannon	Nenad Gubeljak	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.4">https://doi.org/10.53254/ESISTUBE.IRAS2023.4</a>
The use of hydrogen as an additive to improve the characteristics of low-calorific value gaseous fuels	Aleksandar Milivojević	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.5">https://doi.org/10.53254/ESISTUBE.IRAS2023.5</a>
Towards new Fundamentals for Structural Integrity of Large-Scale Pressure Systems	Tamas Fekete	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.6">https://doi.org/10.53254/ESISTUBE.IRAS2023.6</a>
Cavitation resistance of welded joints of AlMg4.5Mn alloy	M. Dojčinović, R. Prokić Cvetković, A. Sedmak, O. Popović, I. Cvetković	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.7">https://doi.org/10.53254/ESISTUBE.IRAS2023.7</a>
Modeling Of 6061-T651 Aluminun Alloy Stress–Strain Diagram by Methods of Machine Learning	O. Yasniy, O. Pastukh, V. Yatsyshyn, I. Chykhira, I. Didych	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.8">https://doi.org/10.53254/ESISTUBE.IRAS2023.8</a>
Methods of Jump-Like Creep Modeling of AMG6 Alluminum Alloy	O. Yasniy, I. Pasternak, I. Didych, S. Fedak, D. Tymoshchuk	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.9">https://doi.org/10.53254/ESISTUBE.IRAS2023.9</a>
The effect of crack tip vs. notch on Charpy toughness value of duplex steel S32750	S. Perković, Z. Burzić, Z. Radaković, A. Sedmak, S. Sedmak	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.10">https://doi.org/10.53254/ESISTUBE.IRAS2023.10</a>
System for monitoring deformation processes in high-rise metal structure	I.Shardakov, A.Shestakov, G. Gusev, R.Tsvetkov, V.Yepin, I. Glot	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.11">https://doi.org/10.53254/ESISTUBE.IRAS2023.11</a>
Solutions and Procedures for Repairing a Damaged Vertical Cylindrical Tank – Depositor	E. Doncheva, V. Gochev, A. Krstevska	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.12">https://doi.org/10.53254/ESISTUBE.IRAS2023.12</a>
Experiments for the Quantification of the Initial Stress State in UIC Parabolic Leaf Springs	V.M.G. Gomes, M.J. Marques, M. Figueiredo,	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.13">https://doi.org/10.53254/ESISTUBE.IRAS2023.13</a>

Presentation title	Authors	DOI
	J.A.F.O Correia, A. C. Batista, R. Calçada, A.M.P de Jesus	
Numerical-Experimental Determination of Stress and Strains State in Connecting Lugs	Đorđe Đurđević, Andrijana Đurđević	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.14">https://doi.org/10.53254/ESISTUBE.IRAS2023.14</a>
Frequency effect in fatigue behaviour of a structural steel and a spring steel	R. Dantas, M. Gouveia, V.M.G. Gomes, F.G.A. Silva, F. Fiorentin, A. de Jesus, J.A.F.O. Correia, G. Lesiuk	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.15">https://doi.org/10.53254/ESISTUBE.IRAS2023.15</a>
Safety Factor of The Bolted Flange Joints	P. Ljubojević, I. Simonović, T. Lazović	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.16">https://doi.org/10.53254/ESISTUBE.IRAS2023.16</a>
New life for historical steel bridges in Transilvania region	D. Radu, R. Băncilă, S. Sedmak, M. Arandjelović	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.17">https://doi.org/10.53254/ESISTUBE.IRAS2023.17</a>
Review of Failure Analysis of Coupling Systems on Freight Trains	M. Vukšić Popović, J. Tanasković, N. Međedović	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.18">https://doi.org/10.53254/ESISTUBE.IRAS2023.18</a>
Experimental investigation of the fatigue crack growth behaviour in SLM additively manufactured 17-4 PH stainless steel specimens	A. Califano, F. Bollino, F. Berto, S. Raffaele	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.19">https://doi.org/10.53254/ESISTUBE.IRAS2023.19</a>
Modification of VCCT method with implementation of GTN model for the determination of J integral	B. Spisák, Z. Bézi, R. Erdei, S. Szávai	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.20">https://doi.org/10.53254/ESISTUBE.IRAS2023.20</a>
For an effective Disruptions Management in Rail Transport - Case study tramway of Constantine, Algeria	S. Belhour, R. Chaib, H. Kahoul, I. Verzea	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.21">https://doi.org/10.53254/ESISTUBE.IRAS2023.21</a>
Crack development from gear stress concentrators of the main reducer of the PS90A engine in transition HCF-VHCF regime	Shanyavskiy, A. Soldatenkov, I. Nikitin, A. Nikitin	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.22">https://doi.org/10.53254/ESISTUBE.IRAS2023.22</a>
Crack Growth Causes in Supporting Structures of Hydraulic Units	Evgeniia Georgievskaja	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.23">https://doi.org/10.53254/ESISTUBE.IRAS2023.23</a>
Effect of floater geometry on the dynamic parameters of a spar-type floating offshore wind turbine	N. Firdaus, B. Ali, R. Adiputra, N. Puryantini, A.R. Prabowo	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.24">https://doi.org/10.53254/ESISTUBE.IRAS2023.24</a>
Characterization of the applied materials on floating offshore wind	M.R.A. Wijaya, R. Adiputra, A.R.	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.25">https://doi.org/10.53254/ESISTUBE.IRAS2023.25</a>

Presentation title	Authors	DOI
turbine members - A review on the current state current state	Prabowo, T. Putranto, D.F. Smaradhana	
Influence of ventilation system effectiveness on the safety of hydrogen storage and transportation applications	M. Gojić, N. Tanasić, I. Arandžević	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.26">https://doi.org/10.53254/ESISTUBE.IRAS2023.26</a>
From component failure to hydraulic engineering complex systems safety	A. Šotić, M. Ivetić	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.27">https://doi.org/10.53254/ESISTUBE.IRAS2023.27</a>
Information system development for increased production process sustainability planning	P.P. Monka, K. Monkova, S. Sun, V. Majstorovic, L. Knapčiková, R. Hricová	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.28">https://doi.org/10.53254/ESISTUBE.IRAS2023.28</a>
Properties of aluminum-steel plates explosively welded using Amonex explosive	M. Lazarević, B. Živković, D. Bajić, A. Alil, B. Nedić	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.29">https://doi.org/10.53254/ESISTUBE.IRAS2023.29</a>
Methodology for pressure equipment risk assessment based on fracture mechanics and influence of human and organizational factors	T. Golubović, V. Spasojević Brkić, A. Sedmak, S. Kirin, I. Martić	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.30">https://doi.org/10.53254/ESISTUBE.IRAS2023.30</a>
The concept of risk, fire and explosion from the perspective of forensic engineering	S. Stojičić, R. Radovanović, M. Srečković, N. Petrović, M. Blagojević, N. Radovanović	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.31">https://doi.org/10.53254/ESISTUBE.IRAS2023.31</a>
Supporting structural life cycle analysis and non-destructive testing (NDT) with numerical methods	R. Erdei, Z. Bézi, C. Takács, S. Szávai	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.32">https://doi.org/10.53254/ESISTUBE.IRAS2023.32</a>
Progressive collapse analysis of inland waterway cargo vessel	N. Ilić, N. Momčilović	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.33">https://doi.org/10.53254/ESISTUBE.IRAS2023.33</a>
The loading and slenderness ratio effect on the failure probability of underground mine pillars - case study	Y. Cheikhaoui, Dj. Nettour, S. Bensehamdi, R. Chaib	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.34">https://doi.org/10.53254/ESISTUBE.IRAS2023.34</a>
The Structural Limit of Tubulars in Wellbores subjected to Tension-Collapse Loads	U.B. Sathuvalli, P.V. Suryanarayana	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.35">https://doi.org/10.53254/ESISTUBE.IRAS2023.35</a>
Characterization of SA500 material - determination of resistant curves material	M. Manjgo, T. Vuherer, G. Lojen	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.36">https://doi.org/10.53254/ESISTUBE.IRAS2023.36</a>
Nonlinear analysis of an idealized I-beam member - An investigation of mesh size on the structural behaviors using finite element approach	C.Y.G. Satriawan, R. Ridwan, A.R. Prabowo, W. Harwijayanti, F.B. Laksono, J.H. Cho	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.37">https://doi.org/10.53254/ESISTUBE.IRAS2023.37</a>

Presentation title	Authors	DOI
Innovative Method of Determining Deflections of Wooden Beams on The Basis of "Moment-Curvature" Diagram	P. Gomon, S. Homon, A. Pavluk, S. Homon, O. Chapyuk, Y. Melnyk	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.38">https://doi.org/10.53254/ESISTUBE.IRAS2023.38</a>
Pitting and uniform corrosion effects on ultimate strength of a bulk carrier	N. Momčilović, N. Ilić, M. Kalajdžić, Š. Ivošević, A. Petrović	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.39">https://doi.org/10.53254/ESISTUBE.IRAS2023.39</a>
Size effect assessment of $K_{Ic}$ experimental data using the Two-Step-Scaling Method	S. Mastilović, B. Djordjević, A. Sedmak, S. Kirin	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.40">https://doi.org/10.53254/ESISTUBE.IRAS2023.40</a>
Finite Element and Fracture Mechanics Analysis of a Cracked Oil-Storage Tank	A.M. Milovanović, A. Sedmak, N. Milovanović, B. Đorđević, S. Sedmak	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.41">https://doi.org/10.53254/ESISTUBE.IRAS2023.41</a>
Selection of safety level for Marine Structures	O.T. Gudmestad	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.42">https://doi.org/10.53254/ESISTUBE.IRAS2023.42</a>
On some applications of Sarhan–Zaindin modified Weibull distribution	I. Arandžević, D. Bekrić, N. Tanasić, R. Rajić	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.43">https://doi.org/10.53254/ESISTUBE.IRAS2023.43</a>
Probabilistic fatigue life modelling based on CMB and SWT criteria of a wind turbine wedge connection	J. Correia, D. Liao, L. Cheng, M. Veljkovic, S.-P. Zhu, J. Winkes, K. Creusen, G. Lesiuk, A. de Jesus	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.44">https://doi.org/10.53254/ESISTUBE.IRAS2023.44</a>
Be careful! Our planet is in danger	Dj. Nettour, R. Chaib	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.45">https://doi.org/10.53254/ESISTUBE.IRAS2023.45</a>
A review on the hull structural steels for ships carrying liquefied gas: Materials performance subjected to low temperatures	H. Nubli, S. Suryanto, A. Fajri, J.M. Sohn, A.R. Prabowo	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.46">https://doi.org/10.53254/ESISTUBE.IRAS2023.46</a>
Idealized critical marine structures under dynamic loading and fire state: A benchmark study using explicit-dynamic FE approach	A. Nurcholli, A.R. Prabowo, I. Yaningsih, T. Muttaqie, H. Nubli, I. Istanto	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.47">https://doi.org/10.53254/ESISTUBE.IRAS2023.47</a>
Surface microcracks initiation and growth under thermal fatigue	O. Yasniy, I. Pasternak, Y. Lapusta, T. Vuherer	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.48">https://doi.org/10.53254/ESISTUBE.IRAS2023.48</a>



Presentation title	Authors	DOI
Study of change of strength and deformation properties of wood under the action of active acid environment	S. Homon, P. Gomon, S. Gomon, O. Vereshko, I. Boyarska, O. Uzhegova	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.49">https://doi.org/10.53254/ESISTUBE.IRAS2023.49</a>
For a better governance of harmful events in companies: A case study	R. Bouzerara, R. Chaib, I. Verzea	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.50">https://doi.org/10.53254/ESISTUBE.IRAS2023.50</a>
Research on regularities of deformation behavior of building structures in the areas of technogenic impact caused by mining	I. Shardakov, A. Shestakov, G. Gusev, R. Tsvetkov, V. Yepin, I. Glot	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.51">https://doi.org/10.53254/ESISTUBE.IRAS2023.51</a>
Dynamic response of a reinforced concrete structure to an impulse localized impact	I. Shardakov, A. Shestakov, G. Gusev, R. Tsvetkov, V. Yepin, I. Glot	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.52">https://doi.org/10.53254/ESISTUBE.IRAS2023.52</a>
Transportation pipelines corrosion: The roles played by pressure, metallurgy, and geography	M.B. Alzeer, K. Ghorayeb, S. Mustapha	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.53">https://doi.org/10.53254/ESISTUBE.IRAS2023.53</a>
Residual life estimation of damaged structures exposed to high pressures and temperatures	N. Raičević, A. Grbović, G. Kastratović, N. Vidanović, A. Sedmak	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.54">https://doi.org/10.53254/ESISTUBE.IRAS2023.54</a>
Temperature influence on composite material behaviour	M. Paunić, I. Balać	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.55">https://doi.org/10.53254/ESISTUBE.IRAS2023.55</a>
Influence of seawater immersion on fatigue strength of GFRP composites with through-holes	H. Vidinha, R. Branco, A.M. Amaro, M.A. Neto, P. Reis, J.D. Costa	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.56">https://doi.org/10.53254/ESISTUBE.IRAS2023.56</a>
Experimental studies on crashworthiness analysis of a sandwich composite panel under axial impact: A comprehensive review	I.B. Wiranto, S.O. Saraswati, A.R. Prabowo, I.R. Al Fikri, Chairunnisa, T. Muttaqie, M.I. Adhynugraha, F.C. Megawanto, A. Hidayat, F.A. Wandono, A. Nurrohmad, A. Paripurna, A. Marta	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.57">https://doi.org/10.53254/ESISTUBE.IRAS2023.57</a>
Mechanical characteristics of compressive specimens obtained by SLS technology	I. Jevtić, G. Mladenović, M.	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.58">https://doi.org/10.53254/ESISTUBE.IRAS2023.58</a>

Presentation title	Authors	DOI
	Milošević, A. Milovanović	
Mechanical properties of ABS resin material	Lj. Petrov, B. Bojović, Z. Golubović, A. Sedmak, I. Trajković, Ž. Mišković, M. Milošević	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.59">https://doi.org/10.53254/ESISTUBE.IRAS2023.59</a>
The Risk assessment of 3D printing FDM technology	J. Antić, Ž. Mišković, R. Mitrović, Z. Stamenić, J. Antelj	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.60">https://doi.org/10.53254/ESISTUBE.IRAS2023.60</a>
Composite plates with Nomex honeycomb core modeling for Dynamic integrity at the mesoscale level	M. Dinulović, A. Grbović, V. Adžić, H. Alarafati	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.61">https://doi.org/10.53254/ESISTUBE.IRAS2023.61</a>
Fatigue lifetime analysis of polyurethane components	G. Lesiuk, K. Junik, K. Jamroziak, Sz. Duda, Wybraniec A., J.A.F.O. Correia, A.M.P. De Jesus	<a href="https://doi.org/10.53254/ESISTUBE.IRAS2023.62">https://doi.org/10.53254/ESISTUBE.IRAS2023.62</a>



