

ISSN 1330-9587 (Print)  
ISSN 1849-0433 (Online)

# ENGINEERING REVIEW

Publishers:  
**Faculty of Engineering, University of Rijeka**  
**Faculty of Civil Engineering, University of Rijeka**

**Editors-in-Chief**Marina Franulović  
*University of Rijeka*Domagoj Lanc  
*University of Rijeka***Editors**Marino Brčić  
*University of Rijeka*Boris Delač  
*University of Rijeka*Leo Škec  
*University of Rijeka*Dubravko Franković  
*University of Rijeka*Dario Iljkić  
*University of Rijeka*Jonatan Lerga  
*University of Rijeka*Kristina Marković  
*University of Rijeka*Goran Mauša  
*University of Rijeka*Sanja Jovančević Dugonjić  
*University of Rijeka*Marko Valčić  
*University of Rijeka*Saša Vlahinić  
*University of Rijeka***Editorial Advisory Board**

Sergey Aksenov (National Research University-Moscow), Ivo Alfirević (University of Zagreb), Roko Andričević (University of Split), Adriana Bjelanović (University of Rijeka), Nicolae Boja (University of Timisoara), Mladen Bulić (University of Rijeka) Zlatan Car (University of Rijeka), Većeslav Čorić (University of Zagreb), Roko Dejhalla (University of Rijeka), Aleksandra Deluka Tibljaš (University of Rijeka), Rudolf Eger (University of Applied Sciences Wiesbaden), Tomislav Filetin (University of Zagreb), Lin Geng (Harbin Institute of Technology), Branko Jeren (University of Zagreb), Zoran Jurković (University of Rijeka), Branko Katalinić (Vienna University of Technology), Goran Kniewald (Ruđer Bošković Institute), Franc Kosel (University of Ljubljana), Lado Kranjčević (University of Rijeka), Stojan Kravanja (University of Maribor), Elso Kuljanić (Croatian Academy of Sciences and Arts & University of Udine), Ivan Kuric (University of Žilina), Siniša Kuzmanović (University of Novi Sad), Stanislaw Legutko (Poznan University of Technology), Željko Lozina (University of Split), Senka Maćešić (University of Rijeka), Igor Mezić (California Institute of Technology), Silvija Mrakovčić (University of Rijeka), Jitai Niu (Harbin Institute of Technology & Henan Polytechnic University), Josef Novak-Marcinčin (Technical University of Košice), Damir Novosel (Mississippi State University), Nada Orlić (University of Rijeka), Nevenka Ožanić (University of Rijeka), Joško Ožbolt (University of Rijeka), Nikola Pavešić (University of Ljubljana), Branimir Pavković (University of Rijeka), Duško Pavletić (University of Rijeka), Damir Pečornik (Mannheim University of Applied Sciences), Tomaž Pepelnjak (University of Ljubljana), Nedjeljko Perić (University of Zagreb), Jindrich Petruska (Brno University of Technology), Jasna Prpić - Oršić (University of Rijeka), Diana Car - Pušić (University of Rijeka), Pero Raos (University of Osijek), Srđan Stanković (University of Montenegro Podgorica), Roman Šturm (University of Ljubljana), Sejid Tešnjak (University of Zagreb), Anica Trp (University of Rijeka), Goran Turkalj (University of Rijeka), Miroslav Vereš (Slovak University of Technology in Bratislava), Ivica Veža (University of Split), Zdravko Virag (University of Zagreb), Nelida Črnjarić - Žic (University of Rijeka).

**Language Advisers**

Alenka Šuljić Petrc

**Layout Editors**

David Liović, Fran Torbarina.

*Articles are also published online on the Portal of scientific journals of Croatia - Hrčak*

**Former titles:**

1(1970)-1987

Zbornik radova, ISSN 0350-722X

9(1988)-1994

Zbornik Tehničkog fakulteta Rijeka, ISSN 0353-281X

15(1995)-

Engineering Review, ISSN 1330-9587

**Address:**

Vukovarska 58, HR-51000 Rijeka, Croatia

E-mail: [engineering.review@riteh.hr](mailto:engineering.review@riteh.hr);URL: <http://er.riteh.hr>**Print:** Tehničar–copservis d.o.o.**Edition:** 35 pcs.*University of Rijeka / Rijeka - Republic of Croatia / has supported publication of this journal.*