

Polytechnic & Design

Vol. 9, No. 3, 2021.

DOI: 10.19279



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ZAGREBU** ZAGREB UNIVERSITY
OF APPLIED SCIENCES

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*Elektroničko (HR, ENG) i tiskano izdanje (HR).
Izlazi 4 puta godišnje.*

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DOI: 10.19279

Članci se nalaze u bazama:

<http://hrcak.srce.hr>
<https://scholar.google.hr>

Mrežna inačica: ISSN 2459-6302

Tiskana inačica: ISSN 1849-1995

Datum izdavanja: 10.11.2021.


ISSN 1849 – 1995





9771849199002


Polytechnic and Design


Sadržaj · *Content*





- 1. Design and fabrication of optimised aerostatic dry gas seals using advanced numerical models and next generation production technology** **156**
Schaham Schoar, Arno Elspaß, Hans Josef Dohmen, Stefan Kleszczynski, Friedrich-Karl Benra
 DOI: 10.19279/TVZ.PD.2021-9-3-11

- 2. Alati za analizu sentimenta** **167**
Sentiment analysis tools
Amelia Kovačević, Željko Kovačević
 DOI: 10.19279/TVZ.PD.2021-9-3-02

- 3. Oblikovanje tipografije u EPUB e-knjigama** **175**
Designing Typography in EPUB e-books
Maja Turčić, Darija Ćutić
 DOI: 10.19279/TVZ.PD.2021-9-3-03

- 4. Aplikacija MathTVZ** **188**
Application MathTVZ
Mia Blažeković, Ivana Božić Dragun, Aleksandra Bernašek Petrincec
 DOI: 10.19279/TVZ.PD.2021-9-3-04

- 5. Pametna digitalizacija javne rasvjete CLSM sustavom** **193**
Smart digitalization of public lighting by CLSM system
Boris Daraboš, Krešimir Meštrović
 DOI: 10.19279/TVZ.PD.2021-9-3-05

- 6. Kotlin u odnosu na Javu za razvoj na JVM i Android platformi**
Kotlin compared to Java for development on JVM and Android platforms **202**
Alen Šimec, Marin Filipec
 DOI: 10.19279/TVZ.PD.2021-9-3-06
- 7. Globalna industrija video igara: Pregled stanja**
Global video gaming industry: An overview **208**
Joško Lozić
 DOI: 10.19279/TVZ.PD.2021-9-3-07
- 8. Žurna izrada mobilnih aplikacija za nadzor i upravljanje u industriji**
Rapid prototyping of mobile applications for industrial control and monitoring **215**
Krunoslav Martinčić, Filip Marolt, Sebastijan Martinčić
 DOI: 10.19279/TVZ.PD.2021-9-3-08
- 9. Mehanički učinci struja kratkoga spoja na sustav užetnih sabirnica**
Mechanical effects of short-circuit currents on strain busbars system **226**
Davor Petranović
 DOI: 10.19279/TVZ.PD.2021-9-3-09

Uvodne riječi · *Introduction*

Riječ glavnog urednika časopisa Polytechnic and Design



Časopis je kolekcija desetak članaka različitih autora i različitih ideja koje utječu na konačni izgled časopisa. Zbog toga sadrži posebne zahvate u dizajnu; od tipografije do izrade slikovnog materijala. Časopis izlazi tiskan u boji, tiskarskim procesnim bojilima cijan, magenta, žuta i crna. U tom smislu ima ponekad nepotrebnog posla oko spot bojila u grafikonima i inzistiranju na kompromisu oko tipografije. U e-knjigama ima još mnogo spoticanja, posebno u rješavanju matematičkih relacija.

Dizajner časopisa preuređuje colorne skale, tablični izgled, ujednačava prelom svih članaka. Opširniji prikaz u ove teme imamo danas kod autorica Maje Turčić i Darije Ćutić.

Kolege iz sveučilišta u Duisburgu u Njemačkoj su nam priredile članak koji se u ovom predgovoru najavljuje citiranjem: „Kako bi se izbjeglo onečišćenje okoliša, potrebno je odvojiti ulje od uljem podmazanih ležajeva turbostroja iz atmosfere. U tu svrhu koriste se sustavi za brtvljenje na plin koji rade s neotrovnim plinom. Ovi sustavi brtvljenja moraju biti robusni i pouzdani, ali također moraju imati nisku potrošnju radnog plina kako bi zadovoljili ekonomske kriterije.“

University of Duisburg-Essen, Chair of Manufacturing Technology, Duisburg, Germany

“To avoid pollution of the environment, it is necessary to separate the oil of the oil-lubricated bearings of a turbomachine from the atmosphere. For this purpose, gas driven sealing systems which operate with a non-toxic gas are used. These sealing systems must be robust and reliable but also should have a low consumption of the operating gas to meet economic criteria.“

Davor Petranović s našeg Veleučilišta prikazuje svoje programsko rješenje na temelju fizikalnog modela učinaka struja kratkog spoja kod visokonaponske užetne sabirnice. U ovom radu opisana je analiza mehaničkih učinaka struja kratkoga spoja na visokonaponske užetne sabirnice. Na temelju razvijenog fizikalnog modela izrađen je program KSUSAB koji računa ponašanje užetnih sabirnica u stacionarnom i dinamičkom stanju.

Kolegice Mia Blažeković, Ivana Božić Dragun, Aleksandra Bernašek Petrinec s Tehničkog veleučilišta dale su koristan rad o razvoju web aplikacije Math-TVZ. To je korisna podloga za studente prve godine stručnog studija informatike pri učenju i praćenju nastavnog gradiva kolegija Matematika.

Vrijedno je spomenuti ostale autore koji su se nekoliko puta oglasili u našem časopisu. U slijedećem broju P&D imamo posebnu temu o člancima koji izgledaju kao nastavak, dopuna prijašnjim sadržajima. Molim čitaoce da predlože korektivu u dizajnu, posebno tiskanog izdanja.

Glavni urednik časopisa Polytechnic and Design

prof. emeritus dr. sc. Vilko Žiljak

Word of Chief editor of journal Polytechnic and Design

The magazine is a collection of a dozen articles by different authors and different ideas that influence the final look of the magazine. Therefore, it contains special interventions in design; from typography to the making of pictorial material. The magazine is printed in color, with printing process dyes cyan, magenta, yellow and black. In that sense, there is sometimes unnecessary work regarding spot dyes in charts and insisting on a compromise around typography. There are still many problems in e-books, especially in solving mathematical relations.

The designer of the magazine rearranges the color scales, the table layout, and evens out the layout of all articles. We have a more detailed overview of this topic today with the authors Maja Turčić and Dario Ćutić.

Colleagues from the University of Duisburg in Germany prepared an article for us, which is announced in this prologue by quoting: “To avoid pollution of the environment, it is necessary to separate the oil of the oil-lubricated bearings of a turbomachine from the atmosphere. For this purpose, gas driven sealing systems which operate with a non-toxic gas are used. These sealing systems must be robust and reliable but also should have a low consumption of the operating gas to meet economic criteria.”

University of Duisburg-Essen, Chair of Manufacturing Technology, Duisburg, Germany

“To avoid pollution of the environment, it is necessary to separate the oil of the oil-lubricated bearings of a turbomachine from the atmosphere. For this purpose, gas driven sealing systems which operate with a non-toxic gas are used. These sealing systems must be robust and reliable but also should have a low consumption of the operating gas to meet economic criteria.”

Davor Petranović from our University presents his software solution based on the physical model of the effects of short-circuit currents at high-voltage cable busbar. This paper describes the analysis of the mechanical effects of short-circuit currents on high-voltage cable busbar. Based on the developed physical model, the KSUSAB program was developed, which calculates the behavior of cable busbars in a stationary and dynamic state.

Colleagues Mia Blažeković, Ivana Božić Dragun, Aleksandra Bernašek Petrinec from the Zagreb University of Applied Sciences gave a useful paper on the development of the web application Math-TVZ. It is a useful basis for students of the first year of the professional study of informatics during learning and following the teaching material of the course Mathematics.

It is worth mentioning other authors who have appeared in our journal several times. In the next issue of P&D, we have a special topic about articles that look like a sequel, supplementing previous content. I kindly ask readers to suggest a correction in the design, especially of the printed edition.

Editor-in-chief of journal Polytechnic and Design

Prof. Emer. Vilko Žiljak, PhD