



GRID  
2022

## PROGRAM

11<sup>TH</sup>

INTERNATIONAL SYMPOSIUM ON  
GRAPHIC ENGINEERING AND DESIGN

UNIVERSITY OF NOVI SAD  
FACULTY OF TECHNICAL SCIENCES  
DEPARTMENT OF GRAPHIC ENGINEERING AND DESIGN

**Venue: Central University Building**  
Dr Zorana Đinđića 1, Novi sad

**Thursday 03 November, 2022**

09:00–10:00 **Participants Registration**

**CONFERENCE HALL**

10:00–10:30 **Ceremonial opening**

*Welcome from the organization committee:*  
Chairman of Organizational Committee prof. dr Gojko Vladić

*Greetings by:*  
Vice Dean for Development and Financies (Faculty of Technical Sciences)  
prof. dr Boris Dumnić  
Rector of the University of Novi Sad prof. dr Dejan Madić

*Official opening of the Symposium:*  
State Secretary prof. dr Marijana Dukić Mijatović

10:30–10:35 **Short break**

10:35–12:05 **Plenary session**

10:35–11:05 **COMPUTATIONAL INTERIOR DESIGN BASED ON 2D PATTERNS**  
*Introductory invited lecture – Panagiotis Kyratsis, Kyriaki Aidinli,  
Prodromos Minaoglou, Lazaros Firtikiadis*

11:05–11:35 **MULTISENSORY GRAPHIC PRESENTATION APPROACHES OF SCIENTIFIC DATA**  
*Introductory invited lecture – Helena Gabrijelčić Tomc*

11:35–12:05 **COATINGS IN GRAPHIC INDUSTRY**  
*Introductory invited lecture – Tomislav Cigula*

12:05–12:25 **Coffee Break – Canteen (ground floor)**

**CONFERENCE HALL SESSION – Printing added value and print quality**  
*Chairpersons: Igor Karlovits / Sandra Dedijer*

- 12:25 **DEVELOPMENT OF NEW UV LED CURABLE INKJET VARNISHES**  
*Bohumil Jašúrek, Jan Vališ, Tomáš Syrový*
- 12:40 **PRINTABILITY AND QUALITY OF PAPERS COATED WITH DIFFERENT BINDERS**  
*Arif Ozcan, Emine Arman Kandirmaz, Omer Bunyamin Zelzele*
- 12:55 **PRODUCTION AND PRINTING OF SOLVENT-BASED FLUORESCENT INK FOR USING IN ANTI-COUNTERFEITING DOCUMENTS**  
*Emine Arman Kandirmaz, Arif Ozcan*
- 13:10 **ARTIFICIAL INTELLIGENCE IN PRINTING**  
*Ivana Tomić, Ivan Pinčjer, Nada Miketić, Savka Adamović*

**MULTIFUNCTION ROOM II-13, 2. floor**  
**(PARALLEL) SESSION – Packaging**  
*Chairpersons: Josip Bota / Magdolna Pál*

- 12:25 **EXPLORING ODOR ASSOCIATIONS BASED ON PACKAGING VISUAL ELEMENTS**  
*Darotea Kovačević, Dajana Kupres, Fran Šepat, Maja Brozović*
- 12:40 **SOLUTIONS OF SUSTAINABLE PACKAGING IN FOOTWEAR AND APPAREL INDUSTRY**  
*Urška Vrabič Brodnjak, Iva Jestratijević*
- 12:55 **CONSUMERS' SOCIO-DEMOGRAPHICS INFLUENCE BETWEEN PURCHASE INTENTION AND ACTUAL BEHAVIOR OF ENVIRONMENTALLY FRIENDLY GROCERY PACKAGING**  
*Mikah Oliver, Urška Vrabič-Brodnjak, Iva Jestratijević*
- 13:10 **INFLUENCE OF PACKAGING DESIGN ON THE QUALITY PERCEPTION OF CHOCOLATE PRODUCTS**  
*Jurica Dolič, Melita Petrić, Jesenka Pibernik, Lidija Mandić*

13:25–14:30 **Lunch Break – Canteen (ground floor)**

## CONFERENCE HALL SESSION - Design and typography

Chairpersons: *Daria Mustić / Uroš Nedeljković*

- 14:30 THE "DO-IT-YOURSELF (DIY)" BRAND DESIGN STRATEGY THROUGH COMPUTATIONAL DESIGN TOOLS  
*Athanasios Manavis, Nikolaos Efkolidis, Konstantinos Kakoulis, Panagiotis Kyratsis*
- 14:45 LEGIBILITY OF TYPEFACES AND PREFERENCES OF TEXT/BACKGROUND COLOR VARIATIONS IN VIRTUAL ENVIRONMENT  
*Ana Agić, Lidija Mandić, Nikolina Stanić Loknar*
- 15:00 DESIGN OF TYPEFACE WITH CONSTRUCTIVISTIC PROPERTIES AND RENOVATION OF PROMOTIONAL MATERIAL FOR MEMORIAL ROOM  
*Zalka Leskovar, Nace Pušnik*
- 15:15 CIRCULAR ECONOMY THROUGH CUSTOMISED 3D PRINTED PRODUCTS: A CASE OF SOUVENIR  
*Lazaros Firtkiadis, Prodromos Minaoglou, Athanasios Manavis*

## MULTIFUNCTION ROOM II-13, 2. floor

### (PARALLEL) SESSION - Print quality and print finishing

Chairpersons: *Urška Vrabič Brodnjak / Bojan Banjanin*

- 14:30 CORONA TREATMENT AND ITS IMPORTANCE IN FLEXO PRINTING  
*Gülhan Acar Büyükpehlivan, Mehmet Oktav*
- 14:45 ANALYSIS OF THE FLEXO PRINTED MATTE VARNISHING STRUCTURE OF POLYESTER SUBSTRATE  
*Csaba Horváth, Ferenc Várza, Klaudia Manúrová*
- 15:00 THE EFFECTS OF FLATBED CREASING TOOL ON PRINTED PAPERBOARD  
*Josip Bota, Jesenka Pibernik, Dorotea Kovačević, Maja Brozović*
- 15:15 EXPLORING THE TENSILE STRENGTH OF PERFORATED PAPER FOR PACKAGING  
*Nada Miketić, Ivan Pinčjer, Ivana Tomić*

15:30-15:45 Coffee Break - Canteen (ground floor)

## CONFERENCE HALL SESSION – Novel technologies

Chairpersons: *Bohumil Jašúrek / Ivana Tomić*

- 15:45 **INVESTIGATION OF THE EFFECT OF SPEED AND PRESSURE ON CONDUCTIVITY IN INKJET PRINTED ELECTRONIC DEVICES**  
*Arif Ozcan, Emine Arman Kandirmaz, Serdem Coskun*
- 16:00 **IMPROVED RECONSTRUCTION OF THE REFLECTANCE SPECTRA FROM RGB READINGS USING TWO INSTEAD OF ONE DIGITAL CAMERA**  
*Mihael Lazar, Aleš Hladnik*
- 16:15 **EDIBLE FILM PRODUCTION WITH ALOE VERA EXTRACT AND ITS PRINTABILITY**  
*Hatice Birtane, Aslı Beyler Çiğil*
- 16:30 **READABILITY OF 2D CODES CONSIDERING THE ACTIVATION TEMPERATURE OF THERMOCHROMIC PRINTING INKS IN SMART TAGS**  
*Maja Stržič Jakovljević, Sanja Mahović Poljaček, Tamara Tomašegović, Bernard Strčić*

## MULTIFUNCTION ROOM II-13, 2. floor

### (PARALLEL) SESSION – Graphic materials

Chairpersons: *Mladen Stančić / Ivan Pinčjer*

- 15:45 **INFLUENCE OF LIGHT INDUCED ACCELERATED AGEING ON SURFACE PROPERTIES OF CARDBOARD PACKAGING COATED BY TiO<sub>2</sub> NANOCOMPOSITES**  
*Tomislav Hudika, Mirela Rožić, Tomislav Cigula, Gabriela Aleksić*
- 16:00 **BACTERIAL NANOCELLULOSE ENHANCED CARDBOARD ADHESION JOINT TESTED WITH Y AND T PEEL TESTING METHODS**  
*Igor Karlovits, Gregor Lavrič, Urška Kavčič*
- 16:15 **PREPARATION OF CONDUCTIVE AND FLAME-RETARDANT PU/GO/DOPO PRINTED FILMS**  
*Aslı Beyler Çiğil, Hatice Birtane, Okan Esentürk*
- 16:30 **LIGHTFASTNESS OF LITHOGRAPHIC PRIMARY COLOURS COATED WITH NANOCOMPOSITES COMPOSED OF TiO<sub>2</sub> AND WATER-BASED VARNISH**  
*Tomislav Hudika, Tomislav Cigula, Filip Golub, Gabriela Aleksić*

16:45–17:00 **Coffee Break – Canteen (ground floor)**

## CONFERENCE HALL SESSION – Ecology and materials

Chairpersons: *Arif Ozcan / Miljana Prica*

- 17:00 **FLUORESCENCE SPECTROSCOPIC ANALYSIS OF BIODEGRADED PRESSURE-SENSITIVE LABELS MADE FROM AGRO-INDUSTRIAL AND POST-CONSUMER WASTE**  
*Ana Marošević Dolovski, Katarina Itrić Ivanda, Rahela Kulčar, Suzana Pasanec Preprotić*
- 17:15 **INVESTIGATION OF RECYCLING PERFORMANCE OF DIFFERENT TYPES OF PAPER PRINTED WITH UV INKS**  
*Dogan Tutak, Irem Ilmi*
- 17:30 **PRELIMINARY REPORT ON PROPERTIES AND INTERACTION OF LAYERS IN “BOARD-BIODEGRADABLE PRIMER-PRINTING INK” SCREEN-PRINTED SYSTEM**  
*Tamara Tomašegović, Sanja Mahović Poljaček, Tomislav Hudika, Andrea Marče*

## MULTIFUNCTION ROOM II-13, 2. floor (PARALLEL) SESSION – Graphic materials

Chairpersons: *Lidija Mandić / Rastko Milošević*

- 17:00 **INFLUENCE OF MULTILAYERED FILMS CONTAINING CELLULOSE NANOCRYSTALS ON THE PROPERTIES OF JAPANESE PAPER**  
*Gabriela Aleksić, Tomislav Cigula, Katarina Itrić Ivanda*
- 17:15 **PRODUCTION OF INK CONTAINING THERMOCHROMIC DYESTUFF**  
*Oya Aydin Uruçu, Hatice Birtane*
- 17:30 **DETERMINING POINT SPREAD FUNCTION OF PRESSURE SENSITIVE LABELS FACESTOCK**  
*Katarina Itrić Ivanda, Zrinka Jakopčević, Dorotea Kovačević, Suzana Pasanec Preprotić*

17:45–18:00 **Coffee Break – Canteen (ground floor)**

18:00 **OPENING CEREMONY “Stills+Motion”**  
**International exhibition of student work**  
**Pavilion on the plateau of the Central University Building**

20:00 **CEREMONIAL DINNER– Restaurant Alaska Terasa**

**Friday 04 November, 2022**

**CONFERENCE HALL SESSION – Digital media**

*Chairpersons: Athanasios Manavis / Neda Milić*

- 10:00**    **COMMUNICATING A GLOBAL PANDEMIC WITH WHATSAPP AND HEALTHBOT IN CROATIA**  
*Stjepan Petričević, Daria Mustić*
- 10:15**    **AN OVERVIEW OF THE USER EXPERIENCE IN ONLINE VIDEO GAME PLAYERS WITH COLOUR VISION DEFICIENCY**  
*Jelena Kerac, Neda Milić Keresteš, Sandra Dedijer*
- 10:30**    **ANALYSIS OF EMOTION EXPRESSION ON FRONTAL AND PROFILE FACIAL IMAGES**  
*Andrej Iskra*
- 10:45**    **COMPARATIVE ANALYSIS OF THE INFLUENCE OF COLOUR ON CUSTOMERS' TRUST TOWARDS WEBSITES IN THE FIELDS OF ONLINE BANKING AND CRYPTOCURRENCY TRADING**  
*Gala Golubović, Sandra Dedijer, Iva Juretić, Stefan Đurđević*

**11:00–11:15** **Coffee Break – Canteen (ground floor)**

**CONFERENCE HALL SESSION – Education**

*Chairpersons: Marina Vukoje / Ivana Jurič*

- 11:15**    **EDUCATION AND ITS CHALLENGES IN POST COVID TIME**  
*Nace Pušnik, Raša Urbas, Primož Weingerl, Irma Puškarević, Jeff Pulaski, Levente Sulyok, Jennifer Ray*
- 11:30**    **DIDACTIC METHODS FOR ACHIEVING IMPROVED CREATIVITY IN TEACHING GRAPHIC DESIGN IN SECONDARY SCHOOL FORMAL EDUCATION**  
*Marija Toure, Helena Gabrijelčič Tomc*
- 11:45**    **THE AWARENESS OF ETHICAL DESIGN PRINCIPALES IN MEDIA DESIGN EDUCATION**  
*Daria Mustić*
- 12:15**    **POSTER SESSION**  
**F319 Faculty of Technical Sciences, 3. floor, F block**

**MULTIFUNCTION ROOM (ground floor)**  
**Industry session (in Serbian language)**  
*Chairman: Živko Pavlović*

- 10:00 **Grafoadria**  
Zašto je Grafoadria logičan izbor za klijente iz grafičke industrije  
*Goran Papić*
- 10:30 **Konica Minolta**  
Prezentacija proizvodnog programa  
*Aleksandar Dobrijević*
- 11:00 **Grafiknet**  
Standardizacijom do unapređenja otisnute ambalaže  
*Dean Tolp*
- 11:30 **Xerox**  
"Xerox Graphic communication strategy – Investment with confidence"  
*Miroslava Tsvetanova (online)*
- 12:00 **Artoption**  
Impact of ending PostScript Type 1 font support for Adobe CC users  
*Dirk Simanek (online)*
- 12:30 **Mojić**  
Prezentacija ponude firme  
*Zlatko Panić, Novica Gligić*
- 13:00 Ručak za posetioce iz privrede – Kantina univerziteta (prizemlje)

**Petrovaradin fortress museum and catacombs tour**  
*Sponsored by: City Museum of Novi Sad*  
Around 15:00

**Saturday 05 November, 2022**

**F319 Faculty of Technical Sciences F block, 3. floor**

- 10:00 **Round table**  
12:00 **Symposium closing**



## POSTER SESSION

F319 Faculty of Technical Sciences F block, 3. floor

### A NEW METHOD FOR ANALYSING EYE-TRACKING MEASUREMENT DATA

*Jure Ahtik*

### DISPLAY OF INTERACTIVE 3D MODELS IN AUGMENTED REALITY ON MOBILE DEVICES

*Marko Bergant, Helena Gabrijelčič Tomc*

### CONTRIBUTION OF FLEXOGRAPHIC PRINTING PROCESS TO GROUND-LEVEL OZONE CONCENTRATIONS

*Savka Adamović, Aleksandra Mihailović, Dragan Adamović*

### VIDEO GAMES AS A LEARNING TOOL - POTENTIAL APPLICATIONS IN THE GRAPHIC ENGINEERING AND DESIGN STUDIES

*Bojan Banjanin, Neda Milić Keresteš, Rastko Milošević, Savka Adamović, Magdolna Pál*

### ACCELERATED PHOTODEGRADATION OF DYE-BASED INK-JET PRINTING INKS IN AN AQUEOUS SOLUTION AND ON A SUBSTRATE

*Barbara Blažnik, Franci Kovač, Grega Bizjak, Sabina Bračko*

### IMPORTANCE OF COGNITIVE ERGONOMICS IN PACKAGING DESIGN

*Gordana Bošnjaković, Gajko Vladič, Teodora Gvoka, Stefan Đurđević, Katarina Maričić*

### INFOGRAPHICS IN DIGITAL ADS: A/B TESTING FOR CONTENT OPTIMIZATION

*Diana Bratič, Denis Jurečić, Tajana Koren Ivančević, Maja Strgar Kurečić*

### DESIGN COMMUNICATION: FASHION DESIGN STUDENTS' PERSPECTIVES ON DIGITAL VS PHYSICAL MOODBOARDS

*Walter Chipambwa, Evelyn Vimbai Chikwanya*

### DESIGNING MOVABLE CHAIN LIKE STRUCTURE WITH 3D MODELED ELEMENTS

*Kaja Čufer, Marjeta Čuk, Tanja Nuša Kočevar*

### REVIEW OF PHOTOPOLYMER MATERIALS IN MASKED STEREOLITHOGRAPHIC ADDITIVE MANUFACTURING

*Alan Divjak, Mile Matijević, Krunoslav Hajdek*

### DEFINING COST-EFFECTIVE WORKFLOW FOR A PHOTOREALISTIC 3D CHARACTER BASED ON A REAL PERSON USING A METAHUMAN FRAMEWORK

*Igor Fijat, Neda Milić Keresteš, Bojan Banjanin*

### DEVELOPMENT OF ANTIFUNGAL PACKAGING COATING FOR BREAD

*Laura Gegeckienė, Dovilė Rožėnaitė, Ingrida Venytė, Georgij Petriaszwili*

### NEAR FIELD COMMUNICATION (NFC) TECHNOLOGY IN THE PACKAGING INDUSTRY

*Laura Gegeckienė, Ingrida Venytė, Justina Karpavičė, Torben Tambo, Kęstutis Vaitasius, Darius Pauliukaitis*

### DEVELOPMENT OF A CONCEPTUAL SOLUTION FOR INTERACTIVE PACKAGING FOR OLIVE OIL

*Lina Vidulin, Ivana Bolanča Mirković, Igor Majnarić, Zdenka Bolanča*

**PHYSICO-CHEMICAL EVALUATION AND KINETIC STUDY OF COLOURED PRINTING WASTEWATER PRIOR AND POST- FENTON TREATMENT**

*Vesna Gvoić, Đurđa Kerkez, Aleksandra Kulić Mandić, Anita Leovac Mačerak, Milena Bečelić-Tomin, Dragana Tomašević Pilipović, Miljana Prica*

**ANALYSIS OF ANSWER TIMES IN RECOGNITION OF FACIAL FEATURES**

*Andrej Iskra, Helena Gabrijelčić Tomc*

**INVESTIGATION OF MECHANISM AND EFFECTIVENESS OF METAL NANOPARTICLES IN SELF-STERILIZING PACKAGING**

*Nirmala Jayaprakash, Kanchana Manivasakan, Sai Tejeshwini Rajaram*

**PREPARATION AND CHARACTERISATION OF CARBOXYMETHYL CELLULOSE/CARRAGEENAN/ JACKFRUIT SEED STARCH BLEND FILM FOR PACKAGING APPLICATIONS**

*Nirmala Jaya Prakash, Rejish Ramakrishnan, Senthil Vadivu Kulandhaivelu, Anantha Janani Vellaisamy Singaram*

**AN INTERACTIVE PHILOSOPHICAL VISION FOR TEXTBOOK DESIGN TO INCREASE INFORMATION VALUE**

*Khlood Khaled Ahmed*

**3D PRINTED LITHOPHANE**

*Jure Klokočovnik, Deja Muck*

**CREATING A 2D ANIMATED SHORT FILM WITH SOUND AND IMAGE SYNCHRONISATION**

*Ana Krklec, Andrej Iskra, Tanja Nuša Kočever*

**DYNAMICS OF THERMOCHROMIC COLOR CHANGE OF PRESSURE SENSITIVE LABELS FACESTOCK MADE FROM ENVIRONMENTALLY FRIENDLY MATERIALS**

*Rahela Kulčar, Dorotea Maretić, Marina Vukoje, Ivan Malenica*

**BIO COATING AS ALTERNATE FOR WAX COATING FOR FOOD GRADE PAPER BOARD**

*Lakshmi Priya, A. Arulmozhi*

**STATISTICAL APPROACH IN FOLD CRACK DISTRIBUTION ANALYSIS**

*Magdolna Pál, Sandra Dedijer, Ivana Jurič, Gordana Bošnjaković, Nemanja Kašiković, Živko Pavlović*

**SUSTAINABLE APPROACH TO BOOK DESIGNING CONCEPTS IN BINDERY SECTOR: AN OVERVIEW**

*Suzana Pasanec Preprotić, Marina Vukoje, Gorana Petković, Mirela Rožić*

**CALCULATION OF CUTTING FORCE BY BOOK-EDGE TRIMMING WITH DISK KNIVES**

*Georgij Petriaszwili, Serhii Komarov, Piotr Janicki, Jakub Bulas*

**INFLUENCE OF THE DIFFERENCE ELECTRIC CHARGE ENERGY TRANSFER INK TO PAPER IN DIGITAL PRINTING**

*Patipak Phunudom, Udomdej Pakdee, Prapaporn Roiphromma*

**CUTTING WITH LASER IN POSTPRESS**

*Ivan Pinčjer, Nada Miketić, Ivana Tomić, Savka Adamović*

**OPTICAL PROPERTIES OF DIGITAL INKS ON STRAW-CONTAINING PAPERS WITH TiO<sub>2</sub>-BASED COATING UPON AGEING**

*Ivana Plazonić, Valentina Radić Seleš, Irena Bates, Maja Rudolf, Katja Petrić Maretić, Igor Majnarić*

**PRELIMINARY REPORT ON DOODLING'S CULTURAL ROLE AS INTENTIONAL ART: A STUDY OF YOUTH PERCEPTIONS OF AESTHETIC SELF-EXPRESSION AND IDEA HELPER IN BRANDING**

*Stephen T. F. Poon*

**LEGIBILITY ANALYSIS OF SELF-DESIGNED TYPEFACE WITH EYE-TRACKING DEVICE**

*Patricija Rauh, Gregor Franken, Klementina Možina*

**EVALUATION OF THE LINE AND EDGE QUALITY OF PRINTED LETTERS ON RECYCLED PAPER WITH STRAW PULP**

*Maja Rudolf, Irena Bates, Ivana Plazonić, Valentina Radić Seleš, Katja Petrić Maretić, Marija Magdalena Mendeš*

**PARAGRAPH DEVELOPMENT IN SCIENTIFIC AND TECHNICAL WRITING**

*Jelisaveta Šafranj, Vesna Bogdanović, Vesna Bulatović*

**EFFECT OF PERFORATIONS ON THE LOSS OF CORRUGATED CARDBOARD BENDING STIFFNESS**

*Iva Šarcević, Diana Gregor-Svetec, Dubravko Banić*

**ANALYSIS OF BLACK ELECTROINK SCREENING ELEMENTS AFTER PRETREATMENT THE FINE ART PAPER SUBSTRATE**

*Donatela Šarić, Marko Morić, Igor Majnarić*

**VISUAL BRAND COMMUNICATION DURING THE COVID-1 PANDEMIC**

*Jelena Spajić, Ksenija Mitrović, Nebojša Novaković, Danijela Lalić*

**STUDY OF THE COLOUR GAMUT VOLUMES AND OTHER REPRODUCTION QUALITY PARAMETERS OF ELECTROPHOTOGRAPHICAL DIGITAL PRINTING SYSTEMS**

*Iskren Spiridonov, Simeon Yordanov, Rumyana Boeva, Kostadin Kalchev*

**THERMAL STABILITY OF PACKAGING PAPERS TREATED OF SILVER WATER**

*Nikolay Yavorov, Dimitrina Todorova, Urška Vrabič Brodnjak, Veska Lasheva*

**THE IMPORTANCE OF DATA ANALYSIS IN THE MODERN ERA OF PRINT PRODUCTION**

*Chris Trohoutsos, Yannis Sofias*

**THE INVESTIGATION OF EDIBLE PACKAGING FILMS BASED ON PULLULAN AND ALGINATE**

*Nevena Vukić, Tamara Erceg, Miroslav Hadnađev*

**THERMOCHROMIC PRINTS ON BEVERAGES PACKAGING: THE RESISTANCE OF PRINTED LABELS UPON ETHANOL**

*Marina Vukoje, Rahela Kulčar, Toni Vrkić, Ana Marošević Dolovski*

**INVESTIGATION OF THE COLOR REPRODUCTION QUALITY OF INKJET DIGITAL PRINTING MACHINES**

*Simeon Yordanov, Iskren Spiridonov, Rumyana Boeva*

**GAMIFICATION AND SERIOUS GAMES METHODOLOGIES IN EDUCATION**

*Imelda Zadeja, Jozef Bushati*

## **ANALYSIS AND DESIGN OF ANIMATED POSTERS**

*Lara Zuza, Jure Ahtik*

## **MACHINE LEARNING AS A SUPPORT TOOL IN WASTEWATER TREATMENT SYSTEMS – A SHORT REVIEW**

*Sanja Radović, Sabolč Pap, Maja Turk Sekulić*

## **DEVELOPMENT OF AUGMENTED REALITY VIDEO APPLICATION**

*Stefan Đurđević, Gala Golubović, Katarina Maričić, Gojko Vladić*

## **WASTE PAPER MOLDING USING 3D PRINTED TOOLS**

*Teodora Gvoka, Gojko Vladić, Nemanja Kašiković, Gordana Bošnjaković, Katarina Maričić*

## **INSTAGRAM INFLUENCER'S RESPONSIVENESS TO A SMALL BUSINESS OUTREACH**

*Rastko Milošević, Ana Komlenić, Nemanja Kašiković, Bojan Banjanin, Davor Menzildžić*

## **ENHANCEMENT OF MACRO-UNIFORMITY OF COPPER(I) OXIDE PRINTED LINEN FABRICS BY ADDITION OF PINUS SYLVESTRIS L. PLANT EXTRACT**

*Branka Ružičić, Dragana Grujić, Blanka Škipina, Mladen Stančić, Đorđe Vujčić, Miroslav Dragić*

## **EVALUATION OF THE INFLUENCE OF ARTIFICIAL UV AGEING OF PRINTED IMAGES**

*Iskren Spiridonov, Rumyana Boeva*

## **THE INFLUENCE OF DEPTH OF FIELD ON THE APPEARANCE OF CHROMATIC ABERRATION**

*Iva Juretić, Gala Golubović, Ivana Jurić*

## **INFLUENCE OF TEST CHART CONTRAST ON QUANTIFICATION OF PHOTO SHARPNESS**

*Ivana Jurić, Nemanja Kašiković, Živko Pavlović, Magdolna Pal, Iva Juretić*

## **NUMBER PLATE RECOGNITION USING TEMPLATE MATCHING TECHNIQUE**

*Andrea Gutai, Andraš Anderla, Nina Kozma, Anđela Milićević, Sara Havzi*

## **LAMINATION OF ELECTROPHOTOGRAPHIC PRINTS**

*Bohumil Jašůrek, Jan Vališ, Michaela Šrámková*

## **THE INFLUENCE OF THE SURROUNDING SPACE ON THE LIGHTING CONDITIONS IN A PHOTOGRAPHIC SCENE**

*Veronika Štampfl, Jure Ahtik*

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