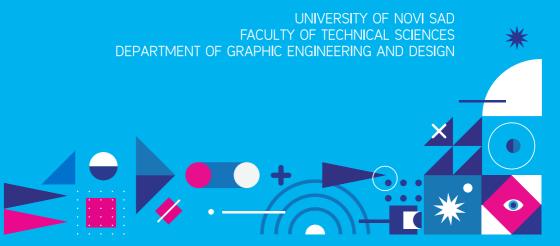


PROGRAM

12th International Symposium on Graphic Engineering and Design



Thursday 14 November, 2024

09:00-10:00 Participants Registration

CONFERENCE HALL

10:00-11:00 CEREMONIAL ACADEMY AND SYMPOSIUM OPENING

CEREMONIAL ACADEMY FOR 25 YEARS OF GROWTH OF GRAPHIC ENGINEERING AND DESIGN

Ceremonial lectures and the presentation of plaques and certificates of appreciation

Greetings by:

Rector of the University of Novi Sad prof. dr Dejan Madić Dean of Faculty of Technical Science, prof. dr Boris Dumnić

Welcome from the organization committee:
Chairman of Organizational Committee prof. dr Magdolna Pál

Symposium opening by: **Provincial Secretary prof. dr Branko Markoski**

11:00-11:30 Coffee break - Canteen (ground floor)

PLENARY SESSION: CONFERENCE HALL

11:30-12:00 UNVEILING INNOVATIONS, CONFRONTING CHALLENGES, AND SHAPING THE

FUTURE OF SUSTAINABLE PACKAGING SOLUTIONS IN THE EPOCH OF

ENVIRONMENTAL TRANSFORMATION

prof. dr Urška Vrabič-Brodnjak

12:00-12:30 CURRENT TRENDS IN PACKAGING

prof. dr Emine Arman Kandirmaz

12:30-13:00 TRANSFORMING THE CLASSROOM WITH DESIGN THINKING

prof. dr Charles Weiss

13:00-14:00 Lunch break - Canteen (ground floor)

FOYER OF THE CENTRAL UNIVERSITY BUILDING

14:00-14:45 Ball Packaging contest winner announcement

Opening the student project exhibition

Poster section

SESSION 1A: CONFERENCE HALL - Education and digital media

Chairpersons: Tomislav Cigula and Neda Milić Keresteš

14:45 MODERN ENGINEERING EDUCATION IN GRAPHIC TECHNOLOGY

AT UNIVERSITIES

Jiong Liang, Huaming Wang, Xi Wang

15:00 OBJECTIVE VIDEO QUALITY COMPARISON OF USER-GENERATED

CONTENT PLATFORMS
Jaroslav Svoboda

15:15 DIGITIZATION OF TYPOGRAPHIC CULTURAL HERITAGE AND ITS

APPLICATION IN INTERACTIVE WEB PRESENTATION

Luka Ramljak, Sara Čurić, Maja Turčić, Tomislav Hudika, Maja Rudolf

15:30 ANALYSIS OF SELF-REGULATED LEARNING APPLICATIONS BASED ON VISUAL

APPEARANCE AND FREQUENCY OF USE

Marija Toure, Helena Gabrijelčič Tomc, Klementina Možina

SESSION 1B: MULTIFUNCTION ROOM (ground floor) - Printing quality

Chairpersons: Marina Vukoje and Saša Petrović

14:45 EVALUATION OF TEXTILE PRINTS PRINTED WITH INKJET PRINTER

Ana Mendizza, Raša Urbas

15:00 ENVIRONMENTALLY FRIENDLY WATER-BASED INKJET INK PRODUCTION AND

DETERMINING PRINTABILITY

Arif Ozcan, Serdem Coskun, Emine Arman Kandirmaz

15:15 DIFFERENT METHODS FOR PRODUCING COLOR REPRODUCTIONS

ON 3D PRINTED OBJECTS

Matej Pivar, Jon Brce, Deja Muck

15:30 INVESTIGATION OF BIO-BASED PAPER COATINGS CONTAINING NATURAL

PIGMENT AND THEIR HEAT RESISTANCE PROPERTIES

Arif Ozcan, Dogan Tutak, Lutfi Ozdemir, Omer Bunyamin Zelzele

15:45-16:00 Coffee break - Canteen (ground floor)

SESSION 2A: CONFERENCE HALL - Novel technologies and artificial intelligence

Chairpersons: Jaroslav Svoboda and Ivana Jurič

16:00	ARTIFICIAL INTELLIGENCE OR MAN: COLORIZATION OF BLACK AND WHITE PHOTOGRAPHS Lidija Mandić, Jesenka Pibernik, Maja Strgar Kurečić, Ana Agić Cmrk
16:15	TRANSFORMING OFFSET PRINTING WITH DIGITAL TWINS AND AI: INSIGHTS FROM RESEARCH INITIATIVES Chris Trochoutsos, Alexandros S. Kalafatelis and Panagiotis Trakada
16:30	AI EFFECTIVENESS OF BACKGROUND REMOVAL FOR DIFFERENT DEPTHS OF FIELD IN PRODUCT IMAGES Josip Bota, Rebeka Šćulac

16:45 RESTORATION OF OLD PHOTOGRAPHS USING AI APPLICATIONS
Ivana Tomić, Nataša Bajšanski, Jelena Vladušić, Ivana Jurič

SESSION 2B: MULTIFUNCTION ROOM (ground floor) - Packaging

Chairpersons: Arif Ozcan and Stefan Đurđević

16:00	INFLUENCE OF ULTRASONIC TREATMENT ON THE MECHANICAL AND SURFACE PROPERTIES OF POTATO STARCH-BASED FILMS WITH VARIOUS GLYCEROL CONTENT Zuzanna Žołek-Tryznowska, Arkadiusz Jeznach, Ewa Bednarczyk, Mariusz Tryznowski
16:15	DEVELOPMENT OF FILMS CONTAINING POLYLACTIC ACID/HALLOYSITE NANOTUBES IN BANANA ACTIVE PACKAGING Aslı Beyler Çiğil, Hatice Birtane

16:30 IMMOBILIZATION OF ANTHOCYANINS BY BACTERIAL NANOCELLULOSE IN PRODUCTION OF INDICATORS FOR PH-CONTROLLED SMART PACKAGING
Sanja Mahović Poljaček, Tamara Tomašegović, Sonja Jamnicki Hanzer, Maja Strižić Jakovljević, Ivana Murković Steinberg, Iva Žuvić, Gregor Lavrič, Urška Kavčič, Ioor Karlovits

16:45 PACKAGING AS A PART OF ENERGY EFFICIENCY STRATEGIES IN FOOD COLD SUPPLY CHAINS

Igor Karlovits

17:00-17:15 Coffee break - Canteen (ground floor)

SESSION 3A: CONFERENCE HALL - Graphic materials and process efficiencies

Chairpersons: Josip Bota and Nada Miketić

17:15	DEVELOPMENT AND RECYCLABILITY OF STAINLESS STEEL-BASED NATURAL
	CONDUCTIVE INK FOR SUSTAINABLE RFID TAG ANTENNAS
	Müjgan Naycı Duman, Ahmet Akgül, Mehmet Oktav, Şükrü Cem Özakhun

17:30 SUSTAINABLE FOOD PACKAGING MATERIALS BASED ON HEMICELLULOSE COATED PAPERS
Petronela Nechita, Mirela Roman, Marian-Silviu Năstac

17:45 IMPROVEMENT OF TRADITIONAL PAPERS SURFACE AND AS USE FINE ART PAPER

Öznur Özden, Yeter Beriş

18:00 REINFORCEMENT OF 3D PRINTED PLA WITH CARBON FIBER REINFORCED COMPOSITE AND INVESTIGATION OF MECHANICAL PROPERTIES Yalcın Boztoprak, Timurhan Eser, Mehmet Barıs Daryal, Sabahattin Deniz

SESSION 3B: MULTIFUNCTION ROOM (ground floor) - Ecology

Chairpersons: Igor Karlovits and Miljana Prica

17:15	RECOVERY OF SILVER FROM PRINTED ELECTRONIC WASTE
	Sabahattin Deniz

17:30 REMOVAL OF INK DYE FROM WASTEWATER USING ADSORPTION BY NANOCELLULOSE BASED HYDROGELS
Hatice Birtane, Aslı Beyler Ciğil

17:45 GREEN RECYCLING OF TONER PRINTED PAPERS BY ENZYME DEINKING Elif Ural, Emine Arman Kandırmaz

18:00 ADSORPTION PROCESS OF CYAN PRINTING DYE ONTO ACTIVATED CARBON: OPTIMIZATION AND KINETIC STUDIES

Vesna Gvoić, Milena Ristić, Miljana Prica

20:00 Gala dinner - Restaurant "Brunch Lounge", at the Faculty of Technical Sciences

Friday 15 November, 2024

PARALLEL SESSIONS

SESSION 1A: CONFERENCE HALL - Design and research methods

Chairpersons: Helena Gabrijelčič Tomc and Jelena Vladušić

10:00	PRODUCT DESIGN Athina Tziarou, Athanasios Manavis, Nikolaos Efkolidis, Panagiotis Kyratsis
10:15	AI-ENHANCED DESIGN AND LEGAL FOOTPRINT FROM INTELLECTUAL PROPERTY PERSPECTIVE Tomislav Hudika, Nika Bošković, Anita Rubinić-Puller, Tihomir Katulić
10:30	DEVELOPMENT OF FEMALE ARTIST IDENTITY IN THE 19TH CENTURY: AN EXAMINATION IN THE CONTEXT OF PRINT ART Yeter Beriş
10:45	WOMEN IN PRINT: FIVE CENTURIES

SESSION 1B: ONLINE - VIDEOCONFERENCE ROOM I-16, 1st floor

Chairpersons: Savka Adamović and Rastko Milošević

Katalin Orgovan, Csaba Horvath, Nora Obermayer

10:00	PREPARATION OF ECO-FRIENDLY INKS FOR PRIMARY & SECONDARY PACKAGING Madhan S, Nimala JP, Kanchana M
10:15	THE UTILISABILITY OF HORNBEAM WOOD SAWDUST WITH CALCITE FILLER IN POLYESTER-BASED COMPOSITE MATERIALS ilyas Kartal, Neşe Çakir
10:30	TO ANALYSE THE FACTORS AFFECTING INK MIGRATION IN THE OFFSET LITHOGRAPHIC PRINTING PROCESS Madhura Mahajan, Dr. A. Arulmozhi
10:45	EVALUATION OF THE MIGRATION POTENTIAL OF COLORANTS AND ADDITIVES IN PAPERBOARD FOOD PACKAGING MATERIALS Sonja Jamnicki Hanzer

11:00-11:15 Coffee break - Canteen (ground floor)

SESSION 2A: CONFERENCE HALL - Design and Typography

Chairpersons: Raša Urbas and Sandra Dedijer

11:15 IDENTIFICATION OF GAZE PATTERNS IN THE OBSERVATION OF FONT-WEIGHT AND ILLUSTRATION SIZE ON THE PACKAGING USING EYE-TRACKING

ANALYSIS

Teodora Gvoka, Gojko Vladić, Gordana Bošnjaković, Magdolna Pál,

Katarina Maričić

11:30 TEMPORAL TYPOGRAPHY: THE IMPACT OF ANIMATION SPEED AND INTERPO-LATION ON INFORMATION TRANSMISSION EFFICIENCY

Jurica Dolić, Jesenka Pibernik, Ivor Muftić, Lidija Mandić

11:45 THE INFLUENCE OF COLOR ON CAPTURING CUSTOMER ATTENTION IN

ONLINE PURCHASES OF ORGANIC COSMETICS CASE

Sanja Cvetojević, Sandra Dedijer

12:00 FROM SKETCH TO ANIMATED 3D MODEL: THEATRICAL COSTUME DESIGN

Tamara Ilić, Bojan Banjanin, Ivan Pinćjer

SESSION 2B: ONLINE - VIDEOCONFERENCE ROOM I-16, 1st floor

Chairpersons: Gojko Vladić and Bojan Banjanin

11:15 IDENTIFICATION TENDENCIES IN THE ONOMASTICS OF NON-ALCOHOLIC

BEVERAGE PACKAGING DESIGN IN AKURE, NIGERIA

Ayorinde S. Oluyemi, Oluwafemi S. Adelabu, E. Bankole Oladumiye

11:30 EXPLORING GUIDANCE AND SIGNING SYSTEMS IN ENVIRONMENTAL

GRAPHIC DESIGN AS INFORMATIONAL DESIGN: A STUDY USING GRAPHIC

DESIGN EXAMPLES Ekrem Çetin Bigat

11:45 CHAMPAGNE PACKAGING DESIGN WITH BRAND AWARENESS AND

USER-CENTRIC CRITERIA: A CASE STUDY

Thomas Liokos , Giorgos Lychridas, Vasileios Kyratsis, Athanasios Manavis

12:00 MODERATION OF CONSUMERS' CONFUSION IN THE ATYPICALITY OF

PACKAGING DESIGN THROUGH THE USE OF E-LABELING TOWARDS SUSTAIN-

ABLE CONSUMPTION

Ayorinde S. Oluyemi, Oluwafemi S. Adelabu , E. Bankole Oladumiye

12:15 TRANSFORMING GRAPHIC DESIGN - THE IMPACT OF AUGMENTED AND

VIRTUAL REALITY ON USER INTERACTION, SECURITY AND PRODUCT

PACKAGING OPTIMIZATION

JP Nirmala, R Ragava Raja, M Kanchana

MULTIFUNCTION ROOM (ground floor) – INDUSTRY SESSION (in Serbian language)

Chairman: Živko Pavlović

10:00 CIRCULAR PACKAGING - ALUMINUM CANS

Ball Packaging

10:30 DIGITAL PRINTING MACHINE PRESENTATION

ArtisJet

11:00 INNOVATIONS IN DIGITAL PRINTING OF CARDBOARD PACKAGING

Grafoadria

11:30-12:00 Coffee break - Canteen (ground floor)

12:00 COMPANY PRESENTATION

Konica Minolta

12:30 BEYOND CMYK

Xerox - Alfa digital

13:00 UV LED PRINT & CUT TECHNOLOGY

Difol

15:00-20:00 GUIDED TOUR OF LOCAL MONASTERIES ALONG WITH A

WINE TASTING EXPERIENCE

(organized for previously registered participants)

Saturday 16 November, 2024

GRID 1 SESSION (Faculty of Technical Sciences, N block, ground floor)

10:00 ROUND TABLE

12:00 SYMPOSIUM CLOSING

12. INTERNATIONAL SYMPOSIUM ON GRAPHIC ENGINEERING AND DESIGN 14-16. NOVEMBER 2024

> GRID 2024

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

