



Conference Agenda ETIMA 2021

19-21.10 2021



HOSTED ONLINE VIA MICROSOFT TEAMS PLATFORM

[TUESDAY 19.10.2021]

[SESSION 1]

[MODERATOR: Prof. d-r Vasilija Sarac]

[LINK: <https://bit.ly/3kptiZp>]

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|-------------|---|
| 09:00-09:15 | Opening of the conference and welcoming speech of the dean prof. Dr. Vasilija Sarac |
| 09:15-10:00 | <i>Plenary Lecture prof. Dr. Bekim Fetaji</i>
<i>Assesing Digital Skills and Competencies of Public Administration and Defining their Proficiency Levels</i> |
| 10:00-10:15 | WI-FI Smart Power Meter
[Goce Stefanov, Vlatko Cingoski] |
| 10:15-10:30 | IoT system for short-circuit detection of DC motor at EKG-15 excavator
[Milutin Radonjic, Božo Krstajić, Žarko Zečević] |
| 10:30-10:45 | RF Sensor Smart Network
[Goce Stefanov, Maja Kukuseva Paneva] |
| 10:45-11:00 | Grid-connected hybrid PV system with battery storage
[Aleksandar Bogatinov, Vlatko Chingoski] |
| 11:00-11:15 | Frequency Sinus Source
[Goce Stefanov, Vasilija Sarac] |
| 11:15-11:30 | Measurement on Compensation Capacitance in Inductive Network by Microcontroller
[Goce Stefanov, Saso Gelev, Todor Cekerovski] |
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[LINK: <https://bit.ly/2VW5yCE>]

15:00-15:15	PWM operation of synchronous permanent magnet motor [Vasilija Sarac]
15:15-15:30	Speed regulation of induction motor with PWM modulation [Vasilija Sarac, Goce Stefanov, Dragan Minovski]
15:30-15:45	Battery energy storage systems and technologies: A Review [Marija Shterjova, Dragan Minovski, Vasilija Sarac]
15:45-16:00	Power-to-x technologies [Sara Aneva, Dragan Minovski, Vasilija Sarac]
16:00-16:15	Energy efficient street lighting system of the city of Shtip using solar energy and led technology [Filip Majstorski, Vlatko Cingoski]
16:15-16:30	Design of a Photovoltaic Power Plant [Sara Aneva, Todor Cekerovski, Marija Cekerovska]

[WEDNESDAY 20.10.2021]

[SESSION 3]

[MODERATOR: Prof. d-r Saso Gelev]

[LINK: <https://bit.ly/39lZYgb>]

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|--------------------|---|
| 10:00-10:15 | Proposed model for better English language acquisition, based on wearable devices
[Stojce Recanoski, Simona Serafimovska, Dalibor Serafimovski] |
| 10:15-10:30 | Open Source Learning Platform - Moodle
[Muamer Ozegovic, Jugoslav Ackoski, Boban Temelkovski] |
| 10:30-10:45 | Comparison of PERT and Monte Carlo Simulations
[Maja Kukusheva Paneva, Goce Stefanov, Biljana Citkusheva Dimitrovska, Dejan Milcevski] |
| 10:45-11:00 | Nanotechnology-Based Biosensors in Drug Delivery Systems: A review
[Mihail Aleksandrov, Maja Kukuseva Paneva] |
| 11:00-11:15 | Development of computer software for creating choreography
[Risima Risimkin] |
| 11:15-11:30 | New innovative tourism product for reanimating rural areas
[Biljana Petrevska, Risto Popovski, Vlatko Chingoski] |
| 11:30-11:45 | On Applicability of Black-Scholes model to MSE
[Toni Stojanovski] |
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[LINK: <https://bit.ly/3lIGJD6>]

- 15:00-15:15 **Изработка на вешт наод и мислење од областа на електротехничките науки**
[Ненад Поповиќ, Сашо Гелев]
- 15:15-15:30 **Simulation of an industrial robot with the help of the MATLAB software package**
[Dusko Pleskov, Saso Gelev, Goce Stefanov]
- 15:30-15:45 **On-line Мултимедиски образовни картички**
[Зорица Каевиќ, Сашо Гелев, Ана Дионисиева, Александар Рајковчеvски]
- 15:45-16:00 **Споредбена техно-економска анализа помеѓу термички изолиран и термички неизолиран објект**
[Тамара Димова, Марија Чекеровска, Тодор Чекеровски]
- 16:00-16:15 **Investigating efficiency aspects in 3x3 photovoltaic plant using model of shading**
[Biljana Citkuseva Dimitrovska, Roman Golubovski, Hristina Spasevska, Goce Stefanov, Maja Kukuseva Paneva]
- 16:15-16:30 **Алгоритам “Вештачка колонија на пчели”**
[Билјана Раичевиќ Велковска, Сашо Гелев, Анис Сефиданоски, Зорица Каевиќ]
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[THURSDAY 21.10.2021]

[SESSION 5]

[MODERATOR: Assistant prof.d-r Dalibor Serafimovski]

[LINK: <https://bit.ly/3Av1IPV>]

10:00-10:15	E-learning - Cyber security challenges and protection mechanisms [Dimitar Bogatinov, Goce Stevanoski, Monika Kachurova]
10:15-10:30	Security and privacy with e-learning software [Monika Kachurova, Goce Stevanoski, Dimitar Bogatinov]
10:30-10:45	Rootkits - cyber security challenges and mechanisms for protection [Goce Stevanoski, Monika Kachurova, Dimitar Bogatinov]
10:45-11:00	Tools and techniques for mitigation and protection against SQL injection attacks [Dimitar Bogatinov, Goce Stevanoski, Monika Kachurova]
11:00-11:15	Acoustic Signal Denoising Based on Robust Principal Component Analysis [Sanja Vujnović, Aleksandra Marjanović, Željko Đurović]
11:15-11:30	Progress of no-insulation HTS magnet development towards ultra-high magnetic field generation [Takanobu Mato, Syumpei Mori, So Noguchi]
11:30-11:45	Investigation on stability of pancake coils wound with bundled multiple REBCO conductors [Kazuma Kodaka, So Noguchi]

[LINK: <https://bit.ly/2Xzg1V4>]

- 15:00-15:15 **Automated System for Smart Meter Testing**
[Peter Janiga, Boris Cintula]
- 15:15-15:30 **Influence Diming of LED Lamps to Electrical Parameters**
[Peter Janiga, Marek Mokran]
- 15:30-15:45 **Inrush Current of Lamp**
[Peter Janiga, Marek Mokran]
- 15:45-16:00 **Complex Evaluation Model of a Small-Scale Photovoltaic Installation Profitability**
[Frantisek Janicek, Jan Ponican, Matej Sadlon]
- 16:00-16:15 **Impact of Faults in Transmission and Distribution Network on Voltage Sags**
[Boris Cintula, Peter Janiga]
- 16:15-16:30 **Influence of rotation angle of luminaires with asymmetrical luminous intensity distribution curve on calculated photometric parameters**
[Marek Mokran, Dionyz Gasparovsky, Roman Dubnicka]
- 16:30-16:45 **Photometric parameters of led luminaires with switchable correlated colour temperature**
[Marek Mokráň, Roman Dubnička, Peter Janiga]
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