UNIVERZITET CRNE GORE
Centar za interdisciplinarne
i multidisciplinarne studije

UNIVERSITY OF MONTENEGRO
Center for Interdisciplinary
and Multidisciplinary Studies

Podgorica, 9.2.2024. godine

Broj: 01/7 - 451/3

UNIVERZITET CRNE GORE
Centar za doktorske studije

Uvaženi,

U prilogu vam dostavljamo predlog Stručnog Vijeća Centra za interdisciplinarne i multidisciplinarne studije studijskog programa Održivi razvoj o davanju saglasnosti na prijavu doktorske disertacije i imenovanju Komisije za ocjenu prijave doktorske disertacije studenta Helge Sallaku, broj dosijea 9/22.

S poštovanjem,
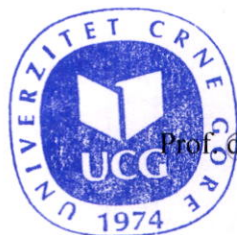
DIREKTOR,

Prof. dr Nedeljko Latinović

Prilog:
- Predlog Stručnog Vijeća
- PD obrazac
- Predlog mentora o imenovanju komisije
- CV studenta Helge Sallaku
- Odluka o izboru u zvanje, biografija i reference Komisije

Na osnovu člana 64 Statuta Univerziteta Crne Gore i člana 32 Pravila doktorskih studija Univerziteta Crne Gore, Stručno Vijeće Centra za interdisciplinarne i multidisciplinarne studije Univerziteta Crne Gore, studijski program Održivi razvoj na 10. sjednici održanoj preko zoom platforme dana 8.2.2024. godine, utvrdilo je sljedeći

PREDLOG

Predlaže se Centru za doktorske studije Univerziteta Crne Gore da dá saglasnost Stručnom Vijeću Centra za interdisciplinarne i multidisciplinarne studije za usvajanje prijave doktorske disertacije i imenovanje Komisije za ocjenu prijave doktorske disertacije studenta mr Helge Sallaku, br.dosijea 9/22, u sastavu:

1. Prof. dr Veljko Milutinović, redovni profesor Elektrotehničkog fakulteta Univerziteta u Beogradu, u penziji, (naučna oblast: Računarska tehnika i informatika), predsjednik Komisije
2. Prof. dr Radovan Stojanović, redovni profesor Elektrotehničkog fakulteta Univerziteta Crne Gore (naučna oblast: Elektronika i Informaciono Komunikacione Tehnologije), mentor
3. Doc. dr Milan Šekularac, docent Mašinskog fakulteta Univerziteta Crne Gore (naučna oblast: Termotehnika), član

Obrazloženje

Student mr Helga Sallaku je, nakon položenih ispita i sprovedenih polaznih istraživanja, dostavila prijavu teme doktorske disertacije (obrazac PD), pod naslovom "Prilog optimizaciji podataka i algoritama u realnom vremenu za IoT bazirane sisteme upravljanja kod koncentrisaih izvora solarne energije", dana 26.12.2023. godine, u skladu sa Pravilima doktorskih studija. Članovi Komisije su iz naučne oblasti predložene doktorske disertacije.

Na osnovu prednjeg utvrđen je predlog kao u dispozitivu.

PREDSJEDNIK STRUČNOG VIJEĆA,

Prof. dr Nedeljko Latinović, direktor

UNIVERSITY OF MONTENEGRO
CENTER FOR INTERDISCIPLINARY AND MULTIDISCIPLINARY STUDIES

SUBJECT: Application for the formation of the Commission for the defense of the initial doctoral research, assessment of the suitability of the doctoral thesis and the candidate.

Dear members of the Council,

I am hereby writing to you regarding the request for the formation of the Commission for the defense of the initial doctoral research on the topic "Contribution to real-time optimization of data and algorithms for IoT based control systems for concentrated solar energy sources", which was approved by the mentor, prof. dr. Radovan Stojanović, associate professor of the Faculty of Electrical Engineering, University of Montenegro.

Respectfully,
Helga Sallaku, MSc.

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Podgorica, 25.12.2023

PRILOG:

- PD form
- Senate Decision on the Mentor selection
- Certificate of passed exams
- Proposal for the Commission
- Biography and bibliography of the student
- Commission members documents required

PRIJAVA TEME DOKTORSKE DISERTACIJE

OPŠTI PODACI O DOKTORANDU	
Titula, ime i prezime	MSc. Helga Sallaku
Fakultet	Center for Interdisciplinary and Multidisciplinary Studies
Studijski program	Sustainable Development
Broj indeksa	9/22
Ime i prezime roditelja	Ferdinand Sallaku, Hatixhe Sallaku
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BIOGRAFIJA I BIBLIOGRAFIJA	
Obrazovanje	- Master of Science in Computer Science – Informatics – Advanced System Information University of Tirana, Albania; **2010 – 2013** - Bachelor of Science in Computer Science - Informatics University of Shkodra "Luigj Gurakuqi", Albania; **2002 - 2006**
Radno iskustvo	- University of Shkodra „Luigj Gurakuqi", Shkoder, Albania Computer Science Assistant Lecturer **2021 - present** - American Dental Companies LLC, Phoenix, AZ USA Director of Information Technology Department **2023 – present** - University of Arizona Center for Innovation, Tucson, USA Innovation Researcher **2022 – 2023** - British Council Albania, Tirana, Albania National Teacher Trainer & Mentor **2019 – 2022** - Alba NSI Software House, Shkoder, Albania Chief Technical Officer **2018 – 2023** - High School „At Pjeter Meshkalla", Shkoder, Albania Computer Science Teacher **2017 - 2018** - Globe TIK & Language Education, Shkoder Albania Founder & Senior Trainer **2015 – present** - University of Durres „Aleksander Moisiu", Durres, Albania Computer Science Assistant Lecturer **2013 – 2015** - HELVETAS SWISS COOPERTION	USAID	Albanian Local Capacity Development Foundation	Smart Processes Tirana, Albania IT Consultant and e-Government Expert **2010 – 2020** - Municipality of Shkodra, Shkoder, Albania Director of Information Technology Department **2008 – 2021** - Regional Council of Shkodra, Shkoder, Albania IT Specialist **2007 – 2008** - High School „28-Nentori", Shkoder, Albania Computer Science Teacher **2006 - 2007**

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	4. Edra Fresku, **Helga Sallaku**, Fatjona Kroni, Seida Daija (2022). MANAGERS 'SUPPORT IN EASIING THE USE OF HOSPITAL INFORMATION SYSTEMS BY NURSES Conference of Technical Medical Science – The performance of the curriculum sciences, their impact on the health system – ISBN 987-9928-274-95-3
	5. Edra Fresku, **Helga Sallaku**, Fatjona Kroni, Seida Daija (2022). USER SATISFACTION IN EASY OF ACCEPTANCE OF HOSPITAL INFORMATION SYSTEMS Conference of Technical Medical Science – The performance of the curriculum sciences, their impact on the health system – ISBN 987-9928-274-95-3

NASLOV PREDLOŽENE TEME	
Na službenom jeziku	Prilog optimizaciji podataka i algoritama u realnom vremenu za IoT bazirane sisteme upravljanja kod koncentrisanih izvora solarne energije.
Na engleskom jeziku	Contribution to real-time optimization of data and algorithms for IoT based control systems for concentrated solar energy sources.

Obrazloženje teme

Renewable energy technologies are the baseline on which to build a European and global climate-neutral future. They encompass renewable electricity, renewable heating and cooling, renewable fuel, water purification and desalination technologies, establishing clean energy technologies, and to further diversify the technology portfolio.

Concentrated Solar Power (CSP) has emerged as a promising renewable energy source with significant potential for large-scale electricity generation. As the demand for clean and sustainable energy rises, CSP technology is being deployed in numerous regions around the world.

However, CSP plants are vast complexes, and to ensure optimal performance and efficient operations, from collecting solar energy to converting it into electricity an effective communication infrastructure is indispensable.

The aim of this research, will be the real-time data optimization leveraging edge computing for efficient IoT-based Energy Management Systems, enhancing efficiency and control communication innovations for CSP networks.

Pregled istraživanja

One of the most popular renewable energy technologies among all the existing is called Concentrated Solar Power (CSP). CSP systems generate solar power by using mirrors or lenses to concentrate a large area of sunlight into a receiver. CSP has a solar power tower, which consists of an array of dual-axis tracking reflectors (heliostats) that concentrate sunlight on a central receiver atop a tower. Electricity is generated when the concentrated light is converted to heat (solar thermal energy), which drives a heat engine (usually a steam turbine) connected to an electrical power generator.

CSP had a global total installed capacity of 6,800 MW in 2021, up from 354 MW in 2005. Spain accounted for almost one third of the world's capacity, at 2,300 MW. The United States follows with 1,740 MW. Interest is increasing and starting recently to be implemented in North Africa and the Middle East, as well as China and India. Since about 2010, central power tower CSP has been favoured in new plants due to its higher temperature operation – up to 565 °C vs. trough's maximum of 400 °C – which promises greater efficiency.

In 2017, CSP represented less than 2% of worldwide installed capacity of solar electricity plants, and has grown more slowly because of challenging technological issues and expensive costs.

Achieving a decarbonized energy sector by 2050 will require the development of cost-effective technologies beyond today's commercial technologies. Increased deployment of solar technology, in particular, will require the deployment of flexible and dispatchable generation and energy storage technologies, like concentrating solar-thermal power (CSP) with thermal energy storage, to ensure reliability of the grid.

CSP plants are vast complexes that require seamless integration and coordination to function efficiently. From collecting solar energy to converting it into electricity, multiple components, and subsystems work in tandem. To achieve this synchronized operation, an effective communication infrastructure is indispensable, because of:

- *Remote Monitoring and Control*: Real-time data transmission helps detect any anomalies promptly, leading to quicker maintenance and improved plant performance.
- *Optimum Performance*: Communication infrastructure enables the exchange of critical data between components, allowing the optimization of CSP plants' performance. This data helps control system parameters, adjust heliostat positions, and maintain accurate temperature levels, ultimately maximizing energy generation.
- *Intelligent Energy Management*: Advanced communication systems in CSP plants facilitate energy management by monitoring grid conditions and adjusting power output accordingly.
- *Fault Detection and Diagnostics*: Robust communication infrastructure allows for the seamless transmission of data from sensors and monitoring devices, enabling real-time fault detection and diagnostics.
- *Data Analytics and Predictive Maintenance*: With a well-established communication infrastructure, CSP plant operators can leverage data analytics tools to identify trends, patterns, and potential equipment failures.

Today, vast software solutions are available for managing traditional solar energy but researching so far, until now there is nothing found on the market that addresses more complicated and specific needs of heliostat or high-concentration solar collectors. All known heliostat or CSP plants run and operate on custom designed software solutions specific to their needs with specific hardware used. It's very difficult to integrate new or updated sensors, controllers, or other 3rd party equipment.

A specific algorithm that optimizes tracker positioning and performance in real-time data processing will be studied and developed during this research. It would be capable of reacting to various disastrous events, perform remediation operations, and automate disaster recovery functionality. In addition to it, an application programming interface (API) would allow seamless integration of any 3rd party IoT hardware and sensors, and the communication infrastructure in CSP operations will witness significant advancements as:

- *IoT Integration*: the integration of Internet of Things (IoT) devices will enable real-time monitoring, automation, and data analytics, optimizing CSP plant operations and performance.

- *5G Connectivity*: the deployment of 5G networks in remote areas will provide high-speed and low-latency communication capabilities, ensuring seamless data transfer between components.
- *Artificial Intelligence*: AI-powered systems will play a crucial role in analysing vast amounts of data generated by CSP plants, leading to intelligent decision-making and further optimization of plant operations.
- *Edge Computing*: By utilizing edge computing, CSP plants can process critical data closer to the source, enabling faster response times and reducing dependence on centralized data centers.

To effectively accomplish these aims, the research objectives are:

✓ to investigate various algorithms currently available in the field of IoT and carry out a detailed analysis of associated problems and challenges;

✓ to validate the proposed algorithms for the real-time data monitoring and control systems that enable immediate identification and mitigation of efficiency losses, predictive maintenance, and improved resource allocation;

✓ to accomplish the integration of IoT technology providing real-time data sharing, automated control, and remote monitoring capabilities in CSP networks;

✓ to identify and propose the advanced communication protocols to ensure efficient and secure communication between system components, and the framework of protocols that allows real-time communication between various devices (constrained and unconstrained).

Edge computing in IoT-based energy management is more than just a buzzword; it is a paradigm-shifting technology that unlocks the true potential of efficient energy utilization and management. Through enhanced real-time data monitoring, reduced latency, and improved security, CSP can unlock significant benefits and gain a competitive edge in the ever-evolving landscape of the energy sector.

Edge computing, which brings computation and data storage closer to the devices generating and using the data, is poised to play a central role in achieving this optimization. Within the research I will explore how real-time data optimization leveraging edge computing can significantly enhance the efficiency of IoT-based energy management systems in CSP systems in:

- *reduced latency;*
- *enhanced data security;*
- *bandwidth optimization;*
- *scalability and flexibility.*

The research will study, compare and advice further improvements the combination of real-time optimization and edge computing to run, manage, and optimize trackers and heliostat or CSP farms, which would be the heart and brains of the heliostat farms and the CSP plants. It would bring together all the hardware into one ecosystem and give users full control over them with User Defined and Customized Automation Rules or Manual Control when needed. Predefined Automation Rules, Start-Up and Shut-Down Sequences, Disaster Recovery, and Business Continuity functionalities would be further enhanced with ability for User-Defined Custom Automation Rules. Users would be able to define any scenario using "if-this then-that" logic based on any sensor readings or outside parameters (weather, time, etc.,).

The research will be delved further into the database modelling, when it comes to real-time data processes as: Relational Database Management System (RDBMS) and Time Series Database Management System (TSDB) in accordance with usage of SQL or NoSQL database technologies, capable of consuming millions of records will be another main topic of the research.

In this first stage of the research, it results that the tracker sensors and controls should be built on low latency IoT specific pub/sub message queuing telemetry transport (MQTT) architecture. Thus, using the real-time data optimization leveraging edge computing for efficient IoT-based Energy Management System solutions that accomplish what presented above, would simplify integration and management of new or existing heliostat farms and CSP plants. By design, it should

be modular, extendable, and easy to integrate new or updated sensors, controllers, or other 3rd party equipment's.

Cilj i hipoteze

Concentrated Solar Power (CSP) systems generate solar power by concentrating sunlight into a Power Tower (Receiver) using an array of large mirrors mounted on dual-axis tracking reflectors (Heliostats). To provide accurate solar pointing during CSP operations, Heliostats have static and dynamic components like reflective area, control system, and a mounting and tracking mechanism. Electronic control of the Heliostat drivetrain is required to track sun position and accurately reflect concentrated sunlight toward a receiver. Heliostats often lose their alignment, perform inaccurate sun tracking and miss their target, Power Tower. This causes CSP plant to radically decrease their productivity, thus increasing the cost of electricity generation. Raised **Hypotheses**:

H1: Integration of the existing azimuth slewing drives and linear actuators (Gear-Drive) into real-time data environment, by installing inexpensive microcontrollers (Raspberry Pi, Arduino, or others) that can send Gear-Drive data to Cloud infrastructure via low latency IoT specific pub/sub message queuing telemetry transport (MQTT) architecture and receive commands to control them, will be a solution in a cost-effective manner.

H2: The usage of a specific algorithm will optimize tracker positioning and performance in real-time data processing, being capable of reacting to various disastrous events, perform remediation operations, and automate disaster recovery functionality.

H3: Utilizing the latest developments real-time data optimization leveraging edge computing for efficient IoT-based Energy Management System solutions, relational database management system (RDBMS), and time-series database management system (TSDB) capable of absorbing millions of records of real-time data, can allow seamless integration of any 3rd party hardware and sensors into an all-in-one platform.

Materijali, metode i plan istraživanja

The methodology of the doctoral dissertation consists of:
- research work;
- field/onsite work on CSP plants or experimental environment;
- laboratory work (preparation, analysis, identification);
- hardware research;
- research and cognitive work on existing hardware devices;
- research and cognitive work on the existing software;
- research and cognitive work on database modelling and technologies;
- research and cognitive work on full stack development technologies available;
- comparison and analysis among renewable solar energies, its infrastructure and data processing;
- research and cognitive work on algorithms design for further improvement;
- statistical and analytical analysis;
- drawing conclusions.

During the first year of my studies in the doctoral program "Sustainable Development", I worked in a systematic way to collect the literature and determine the research direction that will lead me to the final preparation of the subject dissertation.

Based on an overview of the existing literature, the research object and plan are defined, and the object of the research is currently related to the one of the most popular renewable energy technologies among all the existing is called Concentrated Solar Power (CSP).

In the framework of a professional mobility exchange program, during the first year of doctoral studies at the University of Montenegro, I started research work in the role of innovation researcher at the University of Arizona Center for Innovation, based in Tucson, Arizona in the USA.

The University of Arizona Center for Innovation is a tech business incubator with affiliation in academia (University of Arizona), that does research studies in innovation supporting Tech Start-ups for the commercialization of innovative technological solutions. Being included as team

member, of the technical consulting team for the development of an "Electronic Management Platform" customized for a Start-up which implements a new generation of Solar Water Desalination and Concentrated Solar Power (CSP) technology, with innovative efficiency, offering a new solution to a major problem in the development of not just Arizona, but throughout USA and around the world, related to drought and unprecedented and lack of water, will be a good structure pathway to conduct the methodology of my research thesis and its topics developments.

Eighty-five percent of the year, the sun shines in Arizona, making this place the perfect place for testing, evaluation, and demonstration of solar technologies, bringing researchers and companies work together to evaluate how these technologies perform side-by-side under identical operating conditions.

According to the international meteorological data source, also Albania and Montenegro have a high number of climatic regions considering its area, nevertheless the weather is mainly sunny with an average of 300 days of sun per year: On the coastline the climate of Albania and Montenegro are Mediterranean with hot summers and mild winters. Thus, the proposed research can be implemented and replicated in Albania and Montenegro, too.

In coordination with the mentor, the work methodology and the scientific contribution of the research have been determined, and the literature that has been collected so far provides a solid basis for the continuation of this research thesis.

Necessary hardware components must be allocated and a CSP plant must be built (a real one or an experimental on) in order to have a demo environment where to implement a piloting the researches.

A modern software development life cycle (SDLC) will be studied using the agile methodology based in SCRUM framework for the minimum viable product (MVP).

Systematic reporting regarding data processing must be produced.

Web-based resource database will serve as the primary tool to compile all developed Resources, Training and Education (RTE) resources, facilitate information gathering.

Further attempts for education support apply opportunities will be researched through different opening calls in academia academic resources to increase accessibility and exposure of the heliostat and CSP industries implementations to be studied. These efforts will include curriculum development, internship opportunities, education outreach events, and funding opportunities available in the universities on heliostat research projects.

Further attempts for training resources apply opportunities will be researched to apply to introduce and market heliostat technologies and to provide training on fundamentals and institutional knowledge on this technology.

The obtained result will be compared with the available literature data from the regions and the world using Web of Science (WoS) which: represents the dominant global policy base with the aim of obtaining clearer and more accurate information as and with the aim of contributing to the scientific community.

The statistical analysis data of the results will contribute to clearer interpretation of the results.

Based on the detailed analysis of the presented results, conclusions will be drawn that will represent an important and contributing scientific perspective.

Očekivani naučni doprinos

This research contributes to the the capability of gathering and analyzing real-time data, as it is one of the main benefits of implementing solar-powered IoT technologies in renewable and clean energy management.

The study and developement of a specific algorithm which will optimize tracker positioning and performance in real-time data processing, being capable of reacting to various disastrous events, perform remediation operations, and automate disaster recovery functionality, interoperable thorugh abundance of data, may then be examined to find patterns, and areas for development, enabling proactive decision-making and energy-use optimization.

The implementation of the IoT application is investigated using sensors to gather and monitor

real-time data and send that data to the end user within cloud solutions. The proposed study will provide preliminary results on an approach for filtering the data collected by the sensors where redundant/unneeded data are tracked and removed from the transmission queue. By eliminating redundant data, it is also possible to reduce energy consumption, both in the routing and scheduling of data over the internet. This would improve the performance of the system and thereby prolong the network's working life. This new approach will allow the end-user to track and check the behaviour and condition of the sensor nodes remotely.

The solar industry is rapidly evolving. My research thesis results will allow to stay head-to-head with current technological advancements, new components and continuing improvements, giving the industry ability to reduce costs of energy generation, enhance performance and increase sustainability.

Spisak objavljenih radova kandidata

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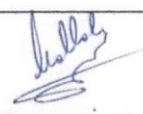
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30. Mohammed M. Alenazi (2023). IoT and Energy. https://www.intechopen.com/online-first/88296

SAGLASNOST PREDLOŽENOG / IH MENTORA I DOKTORANDA SA PRIJAVOM

Odgovorno potvrđujem da sam saglasan sa temom koja se prijavljuje.

Prvi mentor	Prof. dr Radovan Stojanović Elektrotehnički Fakultet, Univerzitet Crne Gore Elektronika i Informaciono Komunikacione Tehnologije (IKT)	(Potpis)
Drugi mentor		
Doktorand	MSc. Helga Sallaku	(Potpis)

IZJAVA

Odgovorno izjavljujem da doktorsku disertaciju sa istom temom nisam prijavio/la ni na jednom drugom fakultetu.

U Podgorici, 25.12.2023.god

Helga Sallaku
Ime i prezime doktoranda

Na osnovu člana 32 stav 1 tačka 14 Statuta Univerziteta Crne Gore, u vezi sa članom 29 Pravila doktorskih studija, Senat Univerziteta Crne Gore, u postupku razmatranja prijedloga Vijeća Centra za interdisciplinarne i multidisciplinarne studije i Odbora za doktorske studije, na sjednici održanoj 19.7.2023. godine, donio je sljedeću

O D L U K U

I

Dr Radovan Stojanović, redovni profesor Elektrotehničkog fakulteta Univerziteta Crne Gore imenuje se za mentora pri izradi doktorske disertacije kandidatkinje mr Helge Sallaku.

II

Odluka stupa na snagu danom donošenja.

Broj: 03 - 37 13/3
Podgorica, 19.7.2023. godine

PREDSJEDNIK SENATA

Prof. dr Vladimir Božović, rektor

Na osnovu člana 33 Zakona o upravnom postupku ("Službeni list CG", br. 56/14, 20/15, 40/16 i 37/17), člana 115 Zakona o visokom obrazovanju("Službeni list CG", br. 44/14, 52/14, 47/15, 40/16, 42/17, 71/17, 55/18, 3/19, 17/19, 47/19, 72/19, 74/20 104/21) i službene evidencije, a po zahtjevu studenta Sallaku Ferdinard Helga, izdaje se

UVJERENJE O POLOŽENIM ISPITIMA

Student **Sallaku Ferdinard Helga**, rođena **18-05-1984** godine u mjestu **Skadar**, Republika **Albanija**, upisana je studijske **2022/2023** godine, u **I** godinu studija, kao student koji se **samofinansira** na **doktorske akademske studije**, studijski program **ODRŽIVI RAZVOJ**, koji realizuje **CENTAR ZA INTERDISCIPLINARNE I MULTIDISCIPLINARNE STUDIJE** - Podgorica Univerziteta Crne Gore u trajanju od **3 (tri)** godine sa obimom **180** ECTS kredita.

Student je položio ispite iz sljedećih predmeta:

Redni broj	Semestar	Naziv predmeta	Ocjena	Uspjeh	Broj ECTS kredita
1.	1	IOT EKOSISTEMI	"A"	(odličan)	10.00
2.	1	KOMUNIKACIJA ČOVJEK-RAČUNAR U MEDIJIMA	"B"	(vrlodobar)	10.00
3.	1	METODOLOGIJA NAUČNO-ISTRAŽIVAČKOG RADA	"A"	(odličan)	10.00
4.	2	DOKTORSKI KOLOKVIJUM		(položio)	5.00
5.	2	TEHNOLOŠKO PREDUZETNIŠTVO	"A"	(odličan)	5.00

Zaključno sa rednim brojem **5**.

Ostvareni uspjeh u toku dosadašnjih studija je:
- srednja ocjena položenih ispita "A" (**9.71**)
- ukupan broj osvojenih ECTS kredita **40.00** ili **66.67%**
- indeks uspjeha **6.47**.

Uvjerenje se izdaje na osnovu službene evidencije, a u svrhu ostvarivanja prava na: (dječji dodatak, porodičnu penziju, invalidski dodatak, zdravstvenu legitimaciju, povlašćenu vožnju za gradski saobraćaj, studentski dom, studentski kredit, stipendiju, regulisanje vojne obaveze i slično).

Broj: 01/7 - 451/1
Podgorica, 22.01.2024 godine

M. P.

Direktor,

UNIVERSITY OF MONTENEGRO
CENTER FOR INTERDISCIPLINARY AND MULTIDISCIPLINARY STUDIES

File No. **9/2022**

In virtue of the Article 33 of the Law on General Administrative Procedure (Official Gazette of the Republic of Montenegro No. 56/14, 20/15, 40/16 i 37/17), Article 115 of the Law on Higher Education (Official Gazette of the Republic of Montenegro No. 44/14, 52/14, 47/15, 40/16, 42/17, 71/17, 55/18, 3/19, 17/19, 47/19, 72/19, 74/20, 104/21) and official record and as per request of student <u>Sallaku Helga, daughter of Ferdinard</u>, the following

CERTIFICATE OF PASSED EXAMS

Is issued, certifying that the student **Sallaku Helga**, daughter of **Ferdinard**, born on **18 May 1984**, in **Skadar**, Republic of **Albania**, was enrolled in the academic year **2022/2023**, as a student **being self-financed**, in the **first** year of **doctoral academic studies,** study programme **SUSTAINABLE DEVELOPMENT**, realised by **THE CENTER FOR INTERDISCIPLINARY AND MULTIDISCIPLINARY STUDIES**, Podgorica, University of Montenegro. This study program shall last **3 (three)** years and shall have the scope of **180** ECTS credits.

The student has passed the following exams:

No.	Semester	Course	Grade	Achievement	ECTS
1.	1	IOT ECOSYSTEMS	"A"	(excellent)	10.00
2.	1	HUMAN-COMPUTER INTERACTION IN THE MEDIA	"B"	(very good)	10.00
3.	1	METHODOLOGY OF SCIENCE AND RESEARCH WORK	"A"	(excellent)	10.00
4.	2	DOCTORAL COLLOQUIUM		(passed)	5.00
5.	2	TECHNOLOGICAL ENTREPRENEURSHIP	"A"	(excellent)	5.00

Concluding with the ordinal number **5**.

The achievement accomplished through studies so far is:
- average grade of passed exams is **"A" (9.71)**,
- total number of achieved ECTS **40.00** or **66.67**%,
- success index is **6.47**.

This Certificate is issued on the basis of official records and serves for the purpose of entitlement to: (children's allowance, family pension, disable person's allowance, medical-care booklet, reduced fare in public transport, dormitory, student's loan, scholarship, regulation of military obligation etc.)

Stamp

No. 017-45 1/1
Podgorica, 22 January 2024

DIRECTOR,

UNIVERSITY OF MONTENEGRO
Center for Interdisciplinary and Multidisciplinary Studies - Sustainable Development, major Center for doctoral studies

Podgorica,
25.12.2023. godine

Subject: Proposal of the committee for the evaluation of the suitability of the doctoral thesis research and the candidate

Honored,

Hereby I propose to the Council of the Center for Interdisciplinary and Multidisciplinary Studies, the Department of "Sustainable Development" of the University of Montenegro to appoint a committee for the assessment of the suitability of the doctoral thesis research "Contribution to real-time optimization of data and algorithms for IoT based control systems for concentrated solar energy sources." and the candidate Helga Sallaku, MSc. in Computer Science, with the members as follows:

1. **Prof. dr Radovan Stojanović**, Faculty of Electrical Engineering, University of Montenegro;
2. **Doc. dr Milan Sekularac**, Faculty of Mechanical Engineering, University of Montenegro;
3. **Prof. dr Veljko Milutinovic**, University of Belgrade;

Respectfully,

Mentor:
Prof. dr Radovan Stojanović

Helga **Sallaku**

Address Rr. Marin Biçikemi, Pall. SPAR, 4001, Shkoder, Albania • **Mob** +1 (602) 295 6007 | +355 67 222 7558
E-MAIL helgasallaku@yahoo.com • **LinkedIn** https://www.linkedin.com/in/helga-sallaku/

PROFILE

A passionate, innovative entrepreneur and lecturer in the field of Information Communications Technology seeking to work with a company, institution or university working in innovation, IT, STEM education, management and business development. A soft skilled and agile person, a fast learner and hard worker always seeking to reach professional growth through new challenges and overcoming different obstacles one may encounter.

RELEVANT Experience

American Dental Companies   2023 - present
Director of Information Technology (IT) | Full Time
Phoenix, AZ, USA:

- Responsible for the Cloud-Based Centralized Dental Management Software
- Responsible for the design, implementation and management of the existing and new IT projects related to IT infrastructure and Software Applications
- Responsible to add new partners and fully integrate them in the IT environment and Software Applications currently in use in ADC
- Integrated Cloud X-Ray Imaging Accessible from Anywhere
- Full IT Support, Remotely or On-Site
- Access to Advanced Practice Analytics
- Recruiting, training and managing inhouse IT support team
- Responsible for new IT Hardware and Software purchases inhouse and for the partners, configurations needed, and fully integrate all in the main active system information.

University of Arizona Center for Innovation   2022 - 2023
Innovation Researcher | Full Time
Tucson, AZ, USA:

- Developing assets and participating in a variety of innovation projects supporting the senior leadership at the University of Arizona Center for Innovation (UACI);
- Delivering outputs regarding the training aspects of startup founders and providing resources for them;
- Supporting the redesign and software reengineering of the new website of UACI, with the focus of building and integrating into a web-based platform (LMS) in assistance of the development of a more formalized training structure for the startup founders;
- Supporting the redesign of the Roadmap Pathway to Success (a tool developed by UACI), its categories and subcategories, for the startups and their founders at all stages of their business development;
- Supporting the transition of training and educational materials of UACI from the current system onto the web-based platform (LMS);
- Supporting the formalization of additional specialty program (which includes establishing methods of tracking and assessment) and mentoring, such as international startups immersion or industry-specific programs with a focus on IT Management, Software
- Development, Web Applications, Database Management Systems, Data Centers Building and Management, etc;
- Implementing learning methods (project management, research and writing capabilities) deployed to provide support to entrepreneurial and innovative endeavors in a growing US based incubator.

University of Shkodra "Luigj Gurakuqi",

Computer Science Assistant Lecturer | Full Time

Shkoder, ALBANIA:

- Responsible for planning and preparing curricula and teaching materials, project-based tasks and exercises that would aid students to improve their understanding of the topics in the subjects as: Databases, Software Engineering, Agile Methodologies, Professional Practices in the field of Computer Science and STEM high education;
- Responsible for the design, implementation and management for various calls for scientific research projects within in the field of Informatics;
- Engaged with the scientific research within the field of expertise and the subjects for which I am responsible in teaching delivery as: Databases, Software Engineering, Agile Methodologies;
- Responsible and point of contact for the design, implementation and the management of the Technology Transfer Office at the University of Shkodra "Luigj Gurakuqi";
- Responsible and point of contact for the design, implementation and the management of the Professional Master Degree in "Advanced Software Development" based at the University of Shkodra "Luigj Gurakuqi" in collaboration with the Polytechnic University of Marche in Ancona, Italy.

Alba NSI shpk   2018 - 2023

Chief Technical Officer | Part - Time Contract

Shkoder, ALBANIA:

- Supporter for the establishment of the first Software House based in Shkodra City, Alba NSI shpk; https://www.albansi.com/it/who-we-are
- Chief of the Software Factory Department, an innovative initiative for the software development delivery in outsourcing through the motto: *From Shkodra to the World*;
- Responsible of the Software Factory Department projects in time-and-material and project-based within the roles as:
  - Scrum Master
  - Product Owner
  - Project Manager;
- Creator of ASDEV (Advanced Software Development) and NeSYA (Networking and IT System Administration) Professional Courses implementation, the innovative approach for building technical capacities in software development and networking and system administration supplying the labor market in this sector;
- Responsible for the quality control and assurance standards in practice, human resources validation and their technologies affiliation, CRM relationship and product management;
- Intermediary and facilitator the relationship of Alba NSI with institutions, academia and businesses.

Globe ICT & Language Education   2015 - 2023

Owner & Chief Executive Officer

Shkoder, ALBANIA:

- Founder of this Vocational Training Centre based in Shkodra City, which delivers innovative and professional courses to children and adults related to: STEM education, coding skills, IT, foreign languages, social sciences, financials, managements, etc.;
- Responsible for the for the licensing as well as preparation and upgrade of the curricula and teaching materials in line with innovative techniques and approach of vocation training international standards;
- Responsible for the expansion of the provision of services and products at the international level through subcontracting or franchise licensing such as:
  - Accredited EIPASS Center by CERTIPASS as **EIPASS Shkoder** in 2015 - CERTIPASS, is the provider of EIPASS (European Informatics Passport), the international program that certifies the users' ICT competencies. It operates nationally and internationally through partnerships with companies, public and private training bodies, institutions, universities and schools of all levels;
    - 235 international EIPASS certifications in IT competencies in the Shkodra municipality territory.

- o Franchise Algorithmics Global as **Algorithmics Shkoder** in 2021 - a business franchise partner of Algorithmics Global, socially-driven aiming to teach children the skills of the 21st century. We make coding fun and easy for kids 6-17 years old. We grow the next tech generation and inspire kids to choose the future professions related to IT and STEM;
    - 190 kids enrolled in Algorithmics Courses and 85 certified during the 1st year.
- Responsible for the quality control and assurance standards in practice, for human resources validation and their fields of expertise affiliation;
- Responsible for the customer relationship management and for the product and service management and delivery.

British Council & ASCAP (Albanian Pre-University Quality Assurance Agency)   2019 - 2021
National Teacher and Mentor | 21st Century Schools Project | Service Contract
ALBANIA:

- Fostering teachers for the usage of the innovative methodologies as Critical Thinking and Problem-Solving techniques in teaching and learning process implementing 21st Century Skills;
- Supporting teachers for the Coding Skills integration in their teaching process, through the usage and automation of micro:bit, as an innovative methodology based in EdTech;
- Mentoring secondary education schools for the preparation of innovative projects integrating coding skills through the usage of micro:bits, supporting their participation in the National Coding Competitions 2020-2022 (3 winners mentored);
- Fostering the improvement of educational curricula towards STEM education.
    for reference: https://kosovo.britishcouncil.org/en/programmes/education/21st-century-schools/webinars/webinar-3

Municipality of Shkodra   2008 –2021
Head of IT Department | Full Time
Shkoder, ALBANIA:

- Established the new approach and the main business rules of electronic communication in the Municipality and the local administration within the implementation of the e-communication network systems of the city hall, its administrative units and its subordinate institutions;
- Improved a new communication approach for the citizens, using innovative techniques implemented as e-services in the official website of the municipality;
- Digitalized the municipal function related to service delivery to the citizens as: One Stop Shop System for the administrative services delivery, Taxes and Tariffs system management, Social Services system management, Annual Budget System for revenue-expenditure and accountability, etc.

HELVETAS SWISS COOPERTION | USAID | Albanian Local Capacity Development Foundation | Smart Processes   2010 – 2020
IT Consultant and e-Government Expert | Service Contracts
ALBANIA:

- Local Government Expert & IT Consultant for the local government services automation, financial budgeting automation, web platforms implementation;
- Software Engineering Consultant for local government services, taxes & tariffs, social development for the municipalities;
- Local Government Expert for the list of identified administrative services and the book-protocol of Administrative Procedures for the municipalities;
- Senior Local Government Expert and Trainer - FUNCTIONING OF INFO OFFICE for the municipalities;
- Senior Local Government Expert for the budget monitoring & kindergartens processes in the local government;
- Senior Local Government Expert for the assessment of Transparency Measures, put in place and make effective use of the three transparency measures (the Transparency Program, Registers of Citizen Requests and Complaints, and Right to Information Coordinator) in the local government;
- Senior Local e-Government Consultant for the Municipal Council Web-Portal and the Citizen Interaction Web-Platform (ITMS) in the local government;

EDUCATION

PhD Candidate in International Doctoral Studies on "Sustainable Development Applications"

University of Montenegro, Podgorica, Montenegro; Supported by Erasmus+ EU Program   2022 - present

Master of Science in Computer Science – Informatics – Advanced System Information

University of Tirana, Albania;   2010 - 2013

Bachelor of Science in Computer Science - Informatics

University of Shkodra "Luigj Gurakuqi", Albania;   2002 - 2006

PROFESSIONAL ACTIVITIES, AWARDS, AND AFFILIATIONS

- Professional Certificate in Coding: For Women - June 2023 Cohort | Massachusetts Institute of Technology (MIT), Cambridge, Boston, USA   2023

- The 4th Summer School on "Cyber Physical Systems and Internet of Things (SS-CPSIoT 2023) | Budva, Montenegro   2023

- Executive Education Certification in Systematic Innovation of Products, Processes, and Services ⇒ MIT Sloan Management School | Massachusetts Institute of Technology (MIT), Cambridge, Boston, USA   2022

- STEM Ed Innovators fellow, member of the international Cohort, Nitrogen Cohort, the Teacher Fellowship community of practice for STEM educators to understand, apply, and improve Democratic STEM pedagogy ⇒ Program of the Jhumki Basu Foundation; New York; USA   2021-2022

- Chairwoman of the Women's Democratic Union of Shkodra, 4th Electoral Administrative Area in Albania   2021

- Member of Parliament Candidate in the Parliamentary Elections of Albania, 25th April 2021, Region of Shkodra, Democratic Party   2021

- Awarded as SCIENTIX Ambassador (representing Albania) ⇒ European SchoolNet Academy, the Community for Science Education in Europe | SCIENTIX | http://www.scientix.eu/in-your-country/scientix-4-teacher-panel##AL   2020-present

- Certified as Digitally Competent Teachers for Creative Digital Students ⇒ European SchoolNet Academy, EDU Regio
                                                                                                       2020

- Certified as Integrated STEM (Scientific-Technology-Engineering-Mathematics) Teacher for Secondary Schools (High Education included) ⇒ European School Net Academy, SCIENTIX   2020

- Certified of Appreciation for planning and facilitating the online events as part of "21st Century Schools" Regional Program in pandemic period ⇒ UK Government – British Council   2020

- Certified for Completion and Achievement "Young Women Entrepreneurs Program" ⇒ US Embassy; Bind, Tirana, Albania
                                                                                                       2020

- Awarded and Certified as a National Teacher Trainer for Critical Thinking and Problem Solving methodologies, coding skills and micro:bit integration in teaching and learning process ⇒ British Council, Tirana, Albania   2019

- "The best public service", the winning price within the range of regional e-governance in the local government ⇒ Albanian ICT Awards Competition, Tirana, Albania   2016

- National Competition of Good Practices – 2016, Best Practices in the Local Government Award, Integrated One Stop Shop System Information in the Municipality of Shkodra, the winning price within the range of regional competition ⇒ HELVETAS SWISS COOPERATION, Tirana, Albania   2016

- National Competition of Good Practices – 2017, Best Practices in the Local Government Award, Budget Transparency Web Portal of the Municipality of Shkodra, the winning price within the range of regional competition⇒ HELVETAS SWISS COOPERATION, Tirana, Albania   2017

- Certified for the Leadership and Management Skills ⇒ Women Democracy Network, Tirana, Albania   2015 – 2016

- Awarded for outstanding contribution in the field of innovation and e-government, digital competence and technical achievements for the local government ⇒ Albanian School of Public Administration, Tirana, Albania   2014

- Member of Albanian National E-Government Competence Centre, Albania   2014

BIBLIOGRAPHY

- Artificial Intelligence and IoT Implementations for Remote Dentalcare Information Systems – Helga Sallaku, Arben Llunji – University of Montenegro, University of Shkodra "Luigj Gurakuqi", http://wipiec.digitalheritage.me/index.php/wipiecjournal/article/view/50   2023

- Digital transformation of the energy ecosystem through all-in-one IoT edge-cloud solutions | Helga Sallaku, Radovan Stojanović, Andrej Skraba – University of Montenegro, https://www.mards.ucg.ac.me/PhD/data/_uploaded/file/DOC-ME-2023-Working/DOC-ME-2023-Sellaku.pdf   2023

- MANAGERS 'SUPPORT IN EASIING THE USE OF HOSPITAL INFORMATION SYSTEMS BY NURSES; Edra Fresku, Helga Sallaku, Fatjona Kroni, Seida Daija; University of Shkodra "Luigj Gurakuqi", Conference of Technical Medical Science – The performance of the curriculum sciences, their impact on the health system – ISBN 987-9928-274-95-3   2022

- USER SATISFACTION IN EASY OF ACCEPTANCE OF HOSPITAL INFORMATION SYSTEMS; Edra Fresku, Helga Sallaku, Fatjona Kroni, Seida Daija – University of Shkodra "Luigj Gurakuqi", Conference of Technical Medical Science – The performance of the curriculum sciences, their impact on the health system – ISBN 987-9928-274-95-3   2022

- "Real-Time Data | A New Technological Trend for Business" ⇒ Metropolitan Journal of Science Engineering and Architecture, 3 (1), pp. 65-73 | Dr.Erarda Vuka; MSc. Helga Sallaku; https://drive.google.com/file/d/1wdGNjQSQFuOHDOF8VmEHZb9oNqgexMEn/view   2021

- "INVOLVEMENT OF CITIZENS AND COMMUNICATION WITH LOCAL GOVERNMENT, MUNICIPALITY OF SHKODRA", Gentiana Ramadani, Helga Sallaku; https://www.bacid.eu/images/9/9f/ENGLISH_VERSION_REPORT_SHKODRA.pdf   2021

- "Building a data warehouse for public financial management systems of local government institutions, with an implementation at Municipality of Shkodra | MSc. Helga Sallaku; https://sites.google.com/site/endrixhina/diplomat-msc/nd%C3%ABrtimi-i-nj%C3%AB-magazine-t%C3%AB-dh%C3%ABnash-p%C3%ABr-sistemet-financiare-t%C3%AB-menaxhimit-t%C3%AB-taksave-n%C3%AB-pushtetin-lokal-helga-sallaku   2013

TECHNICAL SKILLS

Project Management / IT Project Management / Budgeting / Budget Monitoring / Problem-Solving / Team Management / Organizational Skills / Relationship Development / Communication / Database Management (SQL, NoSQL MongoDB) / Software Engineering Project Management / Web Development Project Management / Agile Methodologies / Scrum Framework / Cisco Networks and Devices / Microsoft Windows Sever / Microsoft Active Directory Design and Implementation /Microsoft Excel / Microsoft Office / Amazon Web Services (AWS) / Google Cloud Platform (GCP) / Microsoft Azure / Innovation Researcher / Startup Developer / Scientix Ambassador / Woman in STEM / Computer Science Lecturer / International IT Coach & Examiner / Lidership / Customer Service / e-Government Expert / Management / Analytical Skills / English /

Број: 08-1417

Датум, 27.06.2013 г.

Ref:
Date,

02/1-942
02.07.13

Na osnovu člana 75 stav 2 Zakona o visokom obrazovanju (Sl.list RCG, br. 60/03 i Sl.list CG, br. 45/10 i 47/11) i člana 18 stav 1 tačka 3 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 27.06.2013. godine, donio je

ODLUKU
O IZBORU U ZVANJE

Dr RADOVAN STOJANOVIĆ bira se u akademsko zvanje **redovni profesor** Univerziteta Crne Gore za predmete: Simulacija elektronskih kola na akademskom studijskom programu ETR, Industrijska elektronika na akademskom studijskom programu ETR, Medicinska elektronika na akademskom studijskom programu ETR, Upravljanje u realnom vremenu na akademskom studijskom programu EA **na Elektrotehničkom fakultetu** i Upotreba geografskih informacionih sistema u pomorstvu na Fakultetu za pomorstvo.

REKTOR

Prof.dr Predrag Miranović

Prof. dr Stojanović Radovan

University of Montenegro, Faculty of Electrical Engineering

CV

Radovan Stojanović is born in 1965 in Ivangrad (now Berane), SFR Yugoslavia, where he finished Elementary School and Gymnasium. Graduated from the Faculty of Electrical Engineering of the University of Montenegro in 1990 and 1994 with Dipl. Ing. and Mr Ing. titles. Received PhD from the University of Patras, Greece, (Πανεπιστήμιο Πατρών) in 2001 in the field of electronics and computer science under the mentorship of Professor Georgios Papadopoulos.

From 1990 to 1997, was employed as a trainee assistant and assistant at University of Montenegro. From 1998-2003 he studied his PhD at the University of Patras, and then worked for Industrial Systems Institute - INVIS, Greece. He was elected to the positions of assistant professor, associate professor and full professor at the University of Montenegro in 2002, 2008 and 2013 respectively.

He performed his research and training at a large number of foreign universities and scientific institutions. He was granted with research scholarships from the EU and the governments of Greece, Slovenia and Slovakia. He is the author/co-author of more than 300 publications in international journals and conference proceedings. As an invited lecturer, he was a guest at numerous international meetings and prestigious universities.

He coordinated or participated in over 30 projects from different schemes: TEMPUS/ERASMUS+, H2020, IPA, FP7, WUS, World Bank, Bilateral and National.

He was nominated as an expert by EACEA (Executive Agency for Education, Audiovisual Policy and Culture), EURAMET (European Association of Measurement Institutes) and several government institutions in Europe and the Western Balkans. He is a member of the Think Tank team of Montenegro, the Committee for Doctoral Studies of the University of Montenegro, the representative of Montenegro in the H2020-ICT committee as well as national HERE team (experts for the reform of higher education). He served as an expert in the field of doctoral studies in the Sub-Caspian Region. Currently he is a Head of International PhD Programme in Sustainable Development.

He is the president and founder of the Montenegrin Association for New Technologies (MANT) and a member of the Board of Directors of the European Association for Microelectronics (EuroMicro). He is the president and founder of the MECO conference and co-founder of the CPSIoT workshop, scientific events that are included in the most reference databases in the field of computer science and are considered the most successful conference projects in the Region. He is a member of scientific committees in more than 50 international and domestic scientific meetings, and an editor or reviewer in several SCI / SCIE journals.

He was the first director and one of the founders of the Forum of Montenegrin University Teachers and Researchers of Montenegro (FUPI). He is co-founder of high-technology start-up Mediterranean Excellence in Computing and Ontology (MECOnet)

In 2007, he proposed the application of the LED-LED sensor technique in medical measurements, which was internationally accepted as an original scientific contribution and included in the world wide resources, teaching process as well as numerous patent documentation.

During his career, he had the honour of hosting three Nobel laureates, which visited and supported his scientific activities.

He is the founder of the Center for Applied Electronics in 2003, the Center for Biomedical Engineering (BioEMIS) in 2014, the NATO Disaster Simulation Centers (GEPSUS) in 2014, the Medical Electronics Laboratory (MEDEL) in 2016, International PhD Programme in Sustainable Development, 2023 and the creator of several new courses, programs and teaching modules in the field of advanced electronics and ICT.

He had his recognizable role in the democratic processes in Montenegro, as well as in the promotion of science and education in the Western Balkans.

He speaks English, Greek and Russian.

More about Radovan Stojanović:

http://www.apeg.ac.me/rstojanovic.htm
https://en.wikipedia.org/wiki/Radovan_Stojanovi%C4%87

References, Prof. dr Radovan Stojanović

A) Academic, science and related recognition

- Full Professor at University of Montenegro
- Member of the Board of Montenegrin Academy of Science for Natural and Technical Sciences.
- Member of Think Thank Team of Ministry of Science of Montenegro
- Representative of Montenegro in H2020-ICT Committee.
- Member of the Academic Senate of University of Montenegro (former).
- Member of the Board of the Doctoral Studies of University of Montenegro.
- Director of EuroMicro Association for Montenegro
- Member of EUROMICRO European Board of the Directors
- Member of HERE team of Ministry of Education of Montenegro
- HiPEAC member
- President of the Montenegrin Association of New Technologies (MANT).
- EU expert for TEMPUS, FP7, Horizon 2020 and European Metrology Research Programmes.
- Handling editor of the journal Microprocessors and Microsystems, EMBEDDED HARDWARE DESIGN, Elsevier, ISSN: 0141-9331
- Expert of Slovakian Fond for Research and Development
- Expert of Macedonian Fund for Innovations and Technology Development
- Member of IEEE (Institute of Electrical and Electronics Engineers) BME and IFMBE (International Federation for Medical and Biological Engineering) societies.
- Fellow of IIAS (The International Institute for Advanced Studies in Systems Research and Cybernetics).
- Establisher and Chairman of the Mediterranean conference on embedded systems (MECO), from 2012 to now…
- Establisher and Co-Chairmen of EUROMICRO/IEEE Workshop on Embedded and Cyber-Physical Systems, (ECYPS 2013, 2014, 2015, 2016, 2017, 2018)
- Establisher and Chairmen of International Conference on Cyber-Physical Systems and Internet-of-Things (CPS&IoT), 2019-
- Establisher and Chairmen of Summer School on Cyber Physical Systems and Internet of Things (SSCPS&IoT)
- Member of the Editorial Board of the journal Regional Science Inquiry, The Journal of the Hellenic Association of Regional Scientists, PAPAZISS Publisher, ISSN: 1791-5961, Greece. www.rsijournal.eu
- Member of the Editorial Board, International Journal of Circuits and Architecture Design, ISSN: 2051-7025 (Print), ISSN: 2051-7033 (Online), www.inderscience.com/ijcad
- Member of editorial board of the scientific journal Economic Review (EKONOMICKÉ ROZHLADY). Economics University Bratislava.
- Member of the Editorial Board of the journal Recent Advances in Photonics and Optics, SCHOLARLY PAGES, http://scholarlypages.org/editorial-borad.php?jid=photonics-and-optics
- Chair: Advanced Systems in Healthcare, Wellness and Personal Assistance (ASHWPA), Special Session, DSD2018, DSD2019, DSD 2020

- CoChair, SPECIAL SESSION ON ADVANCED SYSTEMS FOR HEALTH, WELLNESS AND PERSONAL ASSISTANCE (ASHWPA) 21th Euromicro Conference on Digital System Design, 2018, Prague
- CoChair of 16th Annual Mediterranean Ad Hoc Networking Workshop, 2017, http://www.medhocnet.org/commitee.html
- Invited speaker at 3rd IBSM-International Conference on Business, Management and Accounting, Bratislava, Slovakia, 10-12 September 2014. pp. 1-3.
- Invited speaker at 5th International Conference on Engineering & Telecommunication - En&T 2018, Moscow, November 15-16, 2018.
- Invited speaker at conference: NEW TRENDS AND BEST PRACTICES IN SOCIOECONOMIC RESEARCH, 26-28 APRIL 2018, Igalo, Herceg Novi, Montenegro
- Member of Programme Committee, PESW 2020, The 8th Prague Embedded Systems Workshop
- Member of Programme Committee, HI-BI-BI 2019, International Symposium on Network Enabled Health Informatics, Biomedicine and Bioinformatics
- Member of Programme Committee, CCSIE 2011, First Global Conference on Communication, Science & Information Engineering
- Member of Programme Committee, ICT Innovations 2016, 8th ICT Innovations Conference
- Member of Programme Committee, VikingPLoP'15, Travelling Pattern Conference VikingPLoP 2015
- Member of Programme Committee, BIBE-2014, IEEE 14th International Conference on BioInformatics and BioEngineering
- Member of Programme Committee, Women in IT 2014, 1st International Conference Women in IT
- Member of Programme Committee, DC&KE 2014, 1st International Conference on Data Collection and Knowledge Extraction
- Member of Programme Committee, DCCSIT 2014, Doctoral Conference on Computer Science and Information Technologies
- Member of the Scientific Committee of International Conference, Radioelektronika, 2017, 2018
- Member of the Programe Committee of International Conference Applied Electronics 2014, 2015, 2016, 2017, Pilsen, Czech Republic
- Member of the Program Committee Conference on Organizational Sciences Development, Portoroz, Slovenia, 2014,2015, 2016,2017, 2018, 2019,2020.
- Member of the Organizing Committee of the WMMA 2017 - The Sixth International Workshop on Mathematical Models and their Applications, Krasnoyarsk, the Russian Federation, November 13-15, 2017
- Member of the Program Committee CMBEBIH 2017, 2019
- Member of the Programme Committee International Symposium on Network Enabled Health Informatics, Biomedicine and Bioinformatics (HI-BI-BI 2016)
- Member of the Organizing Committee of the The 1st Workshop on Emerging eHealth through Internet of Things, OCTOBER 18–19, 2016 | VÄSTERÅS, SWEDEN, http://ehiot.healthyiot.org/2016/show/org-com
- Member of Programme Committee of the 15th IEEE International Conference on Bioinformatics & Bioengineering (BIBE'2015), Belgrade, Serbia, Nov, 2015
- Member of Programme Committee, VikingPLoP 2015, Ribaristska Resort, Bulgaria, May, 2015.

- Member of Programme Committee, The 1th Conference of Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH 2015), Sarajevo, from 13th to 15th March 2015.
- Member of the Programme Committee EDAMBA 2014, November 2014, Bratislava, Slovakia.
- Member of the Programme Committee of the International Conference on eBusiness, eCommerce, eLearning and EGovernance, IC5E2014, University of Greenwich, London, UK, July 2014
- Member of the ICT Forum 2014, Nis, Serbia
- Member of Program Committee, The 14th IEEE International Conference on BioInformatics and BioEngineering (BIBE-2014) Nov. 10-12, Boca Raton, Florida, USA.
- Member of Program Committee, IEEE 13th International Conference on BioInformatics and BioEngineering, November 2013 , Chania, Greece
- Member of the Program Committee, IEEE Conference on Applied Electronics, 2012, 2013, 2014, 2015, 2016,2017, 2018, Plzen, Czech Republic, http://www.appel.zcu.cz .
- Member of the Organizing Committee, 32th, 31th and 30th Annual International Conference on Organizational Science Development, Portoroz, Slovenia, http://www.fov.uni-mb.si/conference/OrgOdbor.htm
- Member of the Program Committee, IEEE 12th International Conference on BioInformatics and BioEngineering, November, 2012, Larnaca, Cyprus, http://bibe2012.cs.ucy.ac.cy/committees.html
- Member of the International Technical Committee, 7th International Workshop on Biological effects of Electromagnetic fields (7thIWSBEEMF), Malta, 8-12 October 2012. http://www.um.edu.mt/science/physics/electromagnetics/7IWSBEEMF/committe
- Member of the Organizing Committee, Advances in Intelligent Systems and Computing, published by Springer, ISBN 978-3-642-37168-4, http://link.springer.com/content/pdf/bfm%3A978-3-642-37169-1%2F1
- Member of the Organizing Committee, 6th and 7th International Seminar on MATHEMATICAL MODELS & MODELING IN LASER-PLASMA PROCESSES, Budva, Montenegro, 2009, 2010.
- Member of the Scientific Committee, The 15th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Bari, 2009.
- Member of Technical Programme Committee of 1st Global Conference on Communication, Science & Information Engineering CCSIE 2011, London, UK, 2011.
- Chairmen of the Session - Measurement in Biomedicine II, Measurement 2011 Conference 27th -30th April 2011, Smolenice, Slovakia.
- Chairman of the Session, 12th Mediterranean Conference on Medical and Biological Engineering and Computing, Thessaloniki, Greece, 2010.
- Member of the Scientific Committee, 16th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, September 24 to 27, 2011, Ioannina - Greece.
- Vice chairmen, Reviewers coordinator, 6th International Conference on MATHEMATICAL METHODS & COMPUTATIONAL TECHNIQUES IN

ELECTRICAL ENGINEERING, Vouliagmeni, Athens, Greece, December 29-31, 2004.

- Special session chairman, Applied signal and image processing and case studies, 5th International Conference on SIGNAL, SPEECH and IMAGE PROCESSING (SSIP'05), Corfy, August 17-19, 2005, Corfu Island, Greece.
- Sesion chairman: Section Electronics, ETRAN 2006, Sava Center, Belgrade.
- Session chairman: "Analog and digital electronics systems", IEEE-IEE Conference, Applied Electronics September, 2006, Pilsen, Czech Republic, http://appel.zcu.cz/index.php
- Session chairman: "Teaching electronics at universities", IEEE-IEE Conference, Applied Electronics September, 2007, Pilsen, Czech Republic, http://appel.zcu.cz/index.php
- Coordinator of academic cooperation between University of Patras and University of Montenegro..
- Chairman of WSEAS Serbian and Montenegrin (S&M) Chapter for Applied Electronics and Signal Processing

B) Projects

1. Partnership for Promotion and Popularization of Electrical Mobility through Transformation and Modernization of WB HEIs Study Programs (PELMOB), Contract number 101082860-PELMOB-ERASMUS-EDU-2022-CBHE, partner coordinator.
2. H2020, Self-sustained customized cyberphysical system experiments for capacity building among European stakeholders (SMART4ALL), Smart Anything low energy computing Everywhere DT-ICT-01-2019, partner coordinator
3. ERASMUS+, VITALISING ICT RELEVANCE IN AGRICULTURAL LEARNING, 609755-EPP-1-2019-1-BA-EPPKA2-CBHE-JP, 2019, partner coordinator.
4. ERASMUS+, REFORMING DOCTORAL STUDIES IN MONTEENGRO AND ALBANIA, 598465-EPP-1-2018-1-ME-EPPKA2-CBHE-SP, overall project coordinator.
5. ERASMUS+,Electrical Energy Markets and Engineering Education / ELEMEND 585681-EEP-1-2017-1-EL-EPPKA2-CBHE-JP Grant Agreement Number 2017-2896/001-001, MANT Coordinator
6. REDOS, Reforming doctoral studies at the University of Montenegro, MNE World Bank Project, Coordinator
7. HERIC MNE World Bank Project, TELEMONT - EKG, ETF coordinator
8. TeleCare.me, By technology to better health,   Montenegrin Ministry of Economics
9. 544257-TEMPUS-1-2013-1-ME-TEMPUS-JPCRModernizing and harmonizing maritime education in Montenegro and Albania - MarED, Partner Coordinator.
10. 530417-TEMPUS-1-2012-1-UK-TEMPUS-JPCR, Studies in Bioengineering and Medical Informatics, Coordinator of Montenegrin Team.
11. NATO SfP project, Geographical Information Processing for Environmental Pollution-Related Security within Urban Scale Environments, GEPSUS, 2011-2014, SfP 983510, Partner Country Director (PPD).
12. Razvoj i implementacija tehnika za smanjenje potrošnje u programskim jezicima za projektovanje hardvera, Naucno-Tehnološka saradnja izmedu Crne Gore i BiH za 2012/2013, Rukovodilac Crnogorskog tima.

13. FP7 project, APOSTILLE, Reinforcement of Research Potentials of the Faculty of Technical Sciences in the Field of Post Silicon Electronics, Ref: 256615, Coordinator of WBC partner (Montenegro).
14. Bilateral project between Montenegro and Slovenia, Development of simulation models of polutant dispersion and procesess of crisis mitigation, Coordinator of Montenegrin Team. 2010-2011.
15. TEMPUS CD_40017_2005, Introduction of new study programme in applied electronics, Project Coordinator, 2005-2008.
16. SEE-ERA.NET Pilot Joint Call, FP6, Continuous water quality monitoring by ICT in surface waters at Monenegro and Serbia, Coordinator of Montenegrin Team. (05-1/10-1749), 2008.
17. NATO ARW project, Geographical Information Processing and Visual Analytics for Environmental Security, Partner country coo-director, 2008.
18. Bilateral research and technology programme 2006-2008, Greece-Montenegro, Development of wireless telemetry station for air and water quality monitoring, , (05-1/7-1361), project coordinator, 2007-2008.
19. Bilateral research and technology programme 2006-2008, Research and Implementation of Wireless Sensors for the Acquisition of Critical Biosignals, , Greece-Montenegro, project coordinator, (05-1/7-1358), 2007-2008.
20. BalkanGEONet FP7 project, member of Advisory Board
21. RA-WESTBALKAN+ Project, FP7 project, member of Montenegrin team, 2007-2011
22. WBC-INCO.NET, FP7 project, member of Montenegrin team, 2007-2011.
23. World University Center Austria (WUS), CDP+212/2004, koordinator, 2005, Awarded as THE BEST CDP COURSE FOR 2004-2005.
24. TEMPUS C008Z04, CREATION OF MONTENEGRO TEAM OF BOLOGNA PROMOTERS, team member.
25. Energy Efficiency Program in Montenegro, BMZ ID 2004 65 906, Research Consultant, CA- No.: 2007
26. Development and implementation of embedded systems for medical applications. Ministry of Science of Montenegro.
27. Now concept in development of Wearable Health Care (WHC) systems. Ministry of Science of Montenegro.
28. Development of microelectronics systems for telemetry. Ministry of Science of Montenegro.
29. "TeleCG- A PILOT TELEMEDICINE NETWORK OF MONTENEGRO". Ministry of Health of Montenegro.

C) Scholarships and Fellowships

1. TEMPUS Individual Mobility Grant, 1992
2. Greek National Scholarship, IKY, University of Patras, 1997-2001
3. Slovak National Scholarship, Slovak Technical University, Slovakia, 2015
4. JoinSEE Penta Erasmus Scholarship, University of Maribor, Slovenia, 2015

D) Publications, prof. dr Radovan Stojanović

D.1 Monographs and chapters in monographs

1. Veljko Milutinovic and Milos Kotlar, Handbook of Research on Methodologies and Applications of Supercomputing,contribution, IGI Global, February, 2021, ISBN13: 9781799871569.
2. Michael Victorovich Dubkov, Evgeniy Rashitovich Muratov, Boris Vasilevich Kostrov, Alexander Anatolich Loginov, Michael Borisovich Nikiforov, Anatoly Ivanovich Novikov, Dmitry Tarasov, Radovan Stojanovic, Intense Training of Bachelors: Developers of Aircraft Computer Vision Systems, Handbook of Research on Engineering Education in a Global Context, 2019, IGI Global, 501-514
3. Radovan Stojanovic at all, RESEARCH MONOGRAPH - PROCEEDINGS OF 2021 9th MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO&CPSIoT), Main Editor, IEEE.
4. Radovan Stojanovic at all, RESEARCH MONOGRAPH - PROCEEDINGS OF 2022 9th MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO&CPSIoT), Main Editor, IEEE.
5. Radovan Stojanovic at all, RESEARCH MONOGRAPH - PROCEEDINGS OF 2021 9th MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO&CPSIoT), Main Editor, IEEE.
6. Radovan Stojanovic at all, RESEARCH MONOGRAPH - PROCEEDINGS OF 2019 8th MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO&CPSIoT), Main Editor, IEEE.
7. Radovan Stojanovic at all, RESEARCH MONOGRAPH - PROCEEDINGS OF 2018 7th MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO&ECyPS), Main Editor, IEEE.
8. Radovan Stojanovic at all, RESEARCH MONOGRAPH - PROCEEDINGS OF 2017 6th MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO&ECyPS), Main Editor, IEEE
9. Radovan Stojanovic, Mario Gerla, Guy Pujolle, Keun-Woo Lim, Proceedings of the 2017 16th Annual Mediterranean Ad Hoc Networking Workshop, July 2017
10. Radovan Stojanovic at all, RESEARCH MONOGRAPH - PROCEEDINGS OF 2016 5th MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO&ECyPS), Main Editor, IEEE
11. Radovan Stojanovic at all, RESEARCH MONOGRAPH - PROCEEDINGS OF 2015 4th MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO&ECyPS), Main Editor, IEEE
12. Radovan Stojanovic at all, RESEARCH MONOGRAPH - PROCEEDINGS OF 2014 3th MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO&ECyPS), Main Editor, IEEE
13. Radovan Stojanovic at all, RESEARCH MONOGRAPH - PROCEEDINGS OF 2013 2th MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO&ECyPS), Main Editor, IEEE

14. Radovan Stojanovic at all, RESEARCH MONOGRAPH - PROCEEDINGS OF 2018 1th MEDITERRANEAN CONFERENCE ON EMBEDDED COMPUTING (MECO&ECyPS), Main Editor, IEEE

15. R. De Amicis, G. Conti, F. Prandi, S. Piffer, D. Magliocchetti, A. Debiasi, D. Taglioni, A. Škraba, and R. Stojanovic, GEPSUS GEOINT Applications for Homeland Security, Chapter 15th, In: Effective Surveillance for Homeland Security: Balancing Technology and Social Issues, Editors: Francesco Flammini, Roberto Setola, Giorgio Franceschetti, Chapman and Hall/CRC, 2013, pp. 389-409, ISBN 9781439883242.

16. R. Stojanovic, A. Škraba, S. Berkowitz, R. D. DeAmicis, D. Elhanani, G. Conti, D. Kofjac, GIS Based System for Air-Pollution Management, in Importance of GEO Initiatives and Montenegrin Capacity in this Area, Editor I. Djurovic, The Montenegrin Academy of Science and Arts, Section of Natural Sciences, Vol. 16, 2013, pp. 144-154, ISBN: 978-86-7215-308-8.

17. V. N. Ivanovic, R. Stojanovic, S. Jovanovski, Chapter 29th: Hardware implementation of a multidimensional signal analysis system, in Advances in Numerical Methods, Lecture Notes in Electrical Engineering 11, Springer, 2009, pp.335-346. ISBN: 978-0-387-76482-5, e-ISBN: 978-0-387-76483-2.

18. A. Koumoutsakos, S. Kapakai, G. Kaplanidis, P. Sotiropoulos, G. Sideris, R. Stojanovic, D. Djordjevic and G. Pilidis , Continous water quality monitoring of surface waters in Montengro and Serbia, in Scientific Results of the SEE-ERA.NET, edited by Jana Machacova and Katarina Rohsman, Centre for Social Innovation (ZSI), 2009, Vienna, Austria, pp. 57-64. ISBN 978-3-200-01567-8.

19. R. De Amicis, R. Stojanovic, G. Conti, GeoSpatial Visual Analytics: Geographical Information Processing and Visual Analytics for Environmental Security, Editors, 507 pages, Springer, 2009. Contributors, ISBN: 978-9048128976.

D.2 Journals, SCI and SCIE

1. Stanovov, V., Grabljevec, S., Akhmedova, S., Semenkin, E., Stojanović, R., Rozman, Č., & Škraba, A. (2022). Identification of COVID-19 spread mechanisms based on first-wave data, simulation models, and evolutionary algorithms. Plos one, 17(12), e0279427.

2. Hagara, M., Stojanović, R., Šatka, A., Kubinec, P., & Ondráček, O. (2022). Modified algorithm of unimodal thresholding for FPGA implementation. Microprocessors and Microsystems, 94, 104669.

3. Miroslav Hagara, Radovan Stojanović, Tomáš Bagala, Peter Kubinec, Oldřich Ondráček, Grayscale image formats for edge detection and for its FPGA implementation, Microprocessors and Microsystems, Volume 75, 2020, pp. 1-4, ISSN 0141-9331,

4. Milorad Papic, Zlatko Bundalo, Dušanka Bundalo, Radovan Stojanovic, Živorad Kovacevic, Dražen Pašalic, Branimir Cvijic, Microcomputer based embedded SCADA and RFID systems implemented on LINUX platform, Microprocessors and Microsystems, September 2018, DOI: 10.1016/j.micpro.2018.08.009

5. Davorin Kofjac, Radovan Stojanovic, Andrej Kolozvari, Andrej Škraba, Designing a Low-Cost Real-Time Group Heart Rate Monitoring System

6. Microprocessors and Microsystems 63, August 2018, DOI: 10.1016/j.micpro.2018.08.010

7. Radovan Stojanovic, Lech Józwiak, Special issue on cyber-physical systems, Microprocessors and Microsystems, Volume 52, July 2017, Pages 219-220 , https://doi.org/10.1016/j.micpro.2017.06.008

8. Miroslav Hagara, Radovan Stojanovic, Peter Kubinec, Oldrich Ondrácek, Localization of moving edge with sub-pixel accuracy in 1-D images and its FPGA implementation, Microprocessors and Microsystems, Volume 51, June 2017, Pages 1-7, https://doi.org/10.1016/j.micpro.2017.04.004

9. Andrej Škraba, Radovan Stojanovic, Anton Zupan, Andrej Koložvari, Davorin Kofjac, Speech-controlled cloud-based wheelchair platform for disabled persons, Microprocessors and Microsystems, , Volume 39, Issue 8, November 2015, Pages 819-828.

10. Radovan Stojanovic´ and Radenka Krsmanovic Whiffen, Report on MECO, IEEE Design & Test, January/February 2016 Copublished by the IEEE CEDA, IEEE CASS, IEEE SSCS, and TTTC, pp. 89-90.

11. R. Stojanovic and D. Karadaglic, Design of an Oximeter Based on LED-LED Configuration and FPGA Technology, Sensors, Vol. 13, Issue 1, 2013, pp. 574-586. ISSN 1424-8220, doi:10.3390/s130100574.

12. R. Stojanovic, N. Lekic, Z. Mijanovic, The simplest capacitive pad for microcontroller or FPGA, Elektor Electronics, 2013, pp. ISSN: 1757-0875.

13. R. Stojanovic, S. Kneževic, D. Karadaglic and G. Devedžic, Optimization and Implementation of the Wavelet Based Algorithms for Embedded Biomedical Signal Processing, Journal of Computer Science and Information Systems, Vol. 10, No. 1, 2013, pp. 503-523. ISSN: 1820-0214.

14. R. Stojanovic, D. Karadaglic, M. Mirkovic and D. Miloševic, A FPGA system for QRS complex detection based on Integer Wavelet Transform, Measurement Science Review, Vol. 11, No. 4, 2011, pp. 131-138. ISSN 1335 - 8871.

15. D. Karadaglic, A D Wood, M McRobbie, R Stojanovic, and C S Herrington, Fluorescence spectroscopy of an in vitro model of human cervical neoplasia identifies graded spectral shape changes with neoplastic phenotype and a differential effect of acetic acid, Cancer Epidemiology, Elsevier, Vol. 33 (2009), pp. 463-468. ISSN: 1877-7821.

16. Miaoudakis, D. Stratakis, E. Antonidakis, V. Zaharopoulos and R. Stojanovic, Co-Existence Performance Evaluation Of Wireless Computer Networks In A Typical Office Environment, Journal of Computer Science and Information Systems, Vol. 6, No. 1, June 2009, pp.169-183. ISSN: 1820-0214.

17. Veselin N. Ivanovic, Radovan Stojanovic, An efficient VLSI design of the flexible 2-D system for space/spatial-frequency signal analysis, IEEE Transactions on Signal Processing, ISSN: 1053-578X, Vol. 55, No. 6, June 2007, pp. 3116-3125.

18. R. Stojanovic, D. Karadaglic, A LED-LED-based photoplethysmography sensor, Physiological measurements, IOP publishing, Bristol - UK, Philadelphia - USA, Volume 28, Number 6, June 2007, pp. N19-N29.

19. R. Stojanovic and D. Karadaglic, An optical sensing approach based on light emitting diodes, Journal of Physics: C. Series, IOP publishing, ISSN 1742-6588, Vol 76, (2007), (6pp)

20. R. Stojanovic, D. Karadaglic, Single LED Takes On Both Light-Emitting And Detecting Duties, Electronic Design, USA, ISSN: 0013-4872, Vol. 55, No. 16, 2007, pp. 53-54.

21. V. Ivanovic, R. Stojanovic, Lj. Stankovic, Multiple clock cycle architecture for the VLSI design of a system for time-frequency analysis, EURASIP Journal on

Applied Signal Processing, Special issue on Design methods for DSP systems, ISSN: 0941-0635, Volume 2006, Article ID 60613, pp. 1-18.

22. S. Stankovic, Lj. Stankovic, V. Ivanovic, R. Stojanovic, An architecture for the VLSI design of systems for time-frequency analysis and time-varying filtering, Annals des Telecommunications, Paris, ISSN, 0003-4347, Vol.57, No.9/10, Sept./Oct.2002, pp. 974-995.

23. Stojanovic R., Papadopoulos G., Electronic imaging for the inspection of wooden planks, In: Electronic Imaging - SPIE's ITG NL, Eds Arthur Weeks, Vol. 12, No. 2, June 2002, pp. 5-9.

24. Stojanovic, R., Mitropulos P., Koulamas C., Koubias S. and Papadopoulos G. (2001): Real-Time Vision-Based System for Fabric Inspection, Real-Time Imaging, Academic Press Publishing, London, Volume 7, Number 6, December 2001, pp. 507-518.

25. Stojanovic, R. and Karayiannis, Y. , Acquisition and control of linear CCD sensors using an EPP interface, Measurement Science and Technology, Institute of Physics (IoP) Publishing, London, Vol 11, 2000, pp.81-84.

26. Stojanovic, R., Mitropoulos, P., Koulamas, C., Karayiannis, Y., Koubias S. and Papadopoulos G., An Approach for Automated Defect Inspection in Web materials, Machine Graphics & Vision, Vol 9, no 3, 2000, pp. 587-607.

27. Stojanovic, R., Acquire and Control Linear CCD Sensors using IEEE-1284 standard, Electronic Design, USA, March Vol., 2000, pp.131-134.

28. Stojanovic, R., Capacitive keypad is simple yet reliable, UK, April Vol., 2000, pp.298

29. Stojanovic, R., Make a simple PC-based frequency meter, EDN, USA, April Vol, 2000, pp.89-90.

D.3 Others journals

1. D Jankovic, R Stojanovic, The Case study of application Hilbert transform in ECG signal processing, WiPiEC Journal-Works in Progress in Embedded Computing 7 (2), 1-2

2. Živorad Kovacevic, Radovan Stojanovic, Gojko Nikolic, Modelling and Simulation of Accidental Air Pollutant Dispersion in Urban Areas - an Approach Suitable for Developing Countries, Works in Progress in Embedded Computing, Vol2, No1, June 2016, ISSN 2337-0343

3. Boris Jovanovic, Zoran Mijanovic, Radovan Stojanovic, Nedjeljko Lekic, The Simple System for Objects Classification and Counting, Advances in Computer Science, 2015, pp. 165-169. ISBN: 978-1-61804-344-3.

4. Radovan Stojanovic, Anetta Caplánová, Živorad Kovacevic, Nemanja Filipovic, Zlatko Bundalo, Alternative approach to addressing infrastructure needs in biomedical engineering programs (Case of emerging economies), Folia Medica, Volume 50 No. 1, June 2015, pp. 29-34.

5. A. Škraba, M. Kljajic, D. Kofjac, R. Stojanovic, Catomir Rozman, Determination of Optimal Control Strategy in Strict Hierarchical Manpower System, International Journal of Computing Anticipatory Systems, Volume 30, 2014, Edited by D. M. Dubois, CHAOS, Licge, Belgium, ISSN 1373-5411 ISBN 2-930396-19-9, pp. 47-55.

6. R. Stojanovic, A. Škraba, S. Berkowicz, R. D. Amicis, D. Elhanani, G. Conti, D. Kofjac, M. Dragovic, N. Lekic and G. Nikolic, GEPSUS: Simulation-Based

Decision Making System for Air Pollution Accidents, Organization - Organizacija, Journal of Management, Information Systems and Human Resources, Verista Publishing, London, Vol. 45, No. 5, September-October 2012, pp. 200-211. ISSN: 1318-5454.

7. S. Markic, V. Vujicic, R. Stojanovic, Projektovanje FPGA cipa za upravljanje pogonom sa prekidackim reluktantnim motorom, ETF Journal of Electrical Engineering, Vol. 18, No. 1, November 2009, , pp. 3-10. ISSN 0353-5207.

8. M. Bulatovic, R. Stojanovic, Expert System in Function of Statement and Increasing the Effectiveness of Production Systems, WSEAS Transactions on B&E, ISSN: 1109-9526 Issue 4, Volume 3, April 2006, pp. 348-355.

9. V. Zogovic, R. Vukasojevic, R. Stojanovic, Preliminary Research of Drilled Holes Parameters by an Acoustic Emission Application, WSEAS Transactions of Information Science and Applications, ISSN: 1790-0832, Issue 9, Volume 2, September 2005, pp. 1241-1250.

10. V. Ivanovic, R. Stojanovic, The VLSI Design of the Minimal Dimension, Cost and Power Consumption System for Time-frequency Signal Analysis, WSEAS Transactions on Circuits and Systems, ISSN: 1109-2734, Issue 9, Volume 4, September 2005, pp. 1122-1128.

11. R. Stojanovic, N. Šolaja, N. Lekic, Reconfigurable System for Calculation of Laser Spot Position Inside 2D Image Sensor, WSEAS Transactions on Electronics, ISSN: 1109-9445, Issue 3, Volume 1, July 2004, pp. 467-470.

12. V. Vujicic, R. Stojanovic, Highly Accurate Modeling of the Switched Reluctance Drive, WSEAS Transactions on systems, ISSN 1109-2777, Issue 10, Volume 3, December 2004, pp. 3217-3223.

13. J. Polišcuk, R. Stojanovic, The Intelligent Agent: An Analysis of the Experimental Results, WSEAS Transactions on systems, ISSN 1109-2777, Issue 10, Volume 3, December 2004, pp. 3248-3254.

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Radovan Stojanovic

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Developing curriculum in bioengineering and medical informatics at Western Balkan Universities G Devedžić, R Stojanović, Z Bundalo, D Shepherd, S Petrović, ... 2013 2nd Mediterranean Conference on Embedded Computing (MECO), 274-279	9	2013
An architecture for real-time design of the system for multidimensional signal analysis VN Ivanović, R Stojanović, S Jovanovski, L Stanković	9	2006

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2006 14th European Signal Processing Conference, 1-5		
Vision system for finished fabric inspection S Radovan, GD Papadopoulos, M Georgoudakis, P Mitropulos Machine Vision Applications in Industrial Inspection X 4664, 97-103	9	2002
An approach for automated defect detection and neural classification of web textile fabric R Stojanovic, P Mitropulos, C Koulamas, Y Karayiannis, S Koubias, ... Machine Graphics and Vision 9 (3), 587-607	9	2000
A feasible IoT-based system for precision agriculture R Stojanović, V Maraš, S Radonjić, A Martić, J Durković, K Pavićević, ... 2021 10th Mediterranean Conference on Embedded Computing (MECO), 1-4	8	2021
Microcomputer based embedded SCADA and RFID systems implemented on LINUX platform M Papić, Z Bundalo, D Bundalo, R Stojanović, Ž Kovačević, D Pašalić, ... Microprocessors and Microsystems 63, 116-127	8	2018
Design of digital modular bank safety deposit box using modern information and communication technologies M Sajić, D Bundalo, Z Bundalo, R Stojanović, L Sajić 2018 7th Mediterranean Conference on Embedded Computing (MECO), 1-6	8	2018
A measuring method for laser-based profilometry and its applications in nondestructive testing and quality control RD Stojanovic, S Koubias, S Stojanovic, M Georgoudakis Fifth International Conference on Vibration Measurements by Laser Techniques ...	8	2002
Study on youth employment in the Western Balkans A Ramhorst Regional Cooperation Council 15, 369	7	2021
Foot pressure distribution and contact duration pattern during walking at self-selected speed in young adults S Petrović, G Devedžić, B Ristić, A Matić, R Stojanović 2013 2nd Mediterranean Conference on Embedded Computing (MECO), 172-175	7	2013
MSP430 implementation of wavelet transform for purposes of physiological signals processing S Knezevic, R Stojanovic 2012 5th European DSP Education and Research Conference (EDERC), 119-123	7	2012
A Comparison of Statistical and Spectral Analytical Methods for Feature Extraction in the Process of Web Defect Detection. RD Stojanovic, SA Koubias, GD Papadopoulos IIA/SOCO	7	1999
A Feasible IoT System for Monitoring PPG and ECG Signals by using Low-cost Systems-on-chips and HTML Interface VI Kubov, YY Dymytrov, R Stojanović, RM Kubova, A Škraba 2020 9th Mediterranean Conference on Embedded Computing (MECO), 1-4	6	2020
Development of cyber-physical speech-controlled wheelchair for disabled persons A Škraba, A Koložvari, D Kofjac, R Stojanovic, E Semenkin, V Stanovov	6	2019

TITLE	CITED BY	YEAR
2019 22nd Euromicro Conference on Digital System Design (DSD), 456-463		
Single clock square root algorithm based on binomial series and its FPGA implementation T Bagala, A Fibich, M Hagara, P Kubinec, O Ondráček, V Štofanik, ... 2018 7th Mediterranean Conference on Embedded Computing (MECO), 1-4	6	2018
CMBEBIH 2017: Proceedings of the International Conference on Medical and Biological Engineering 2017 A Badnjevic Springer	6	2017
Led-Led PPG-SpO2 Sensor-Actuator RD Stojanovic, DM Karadaglic, K Perakis, BM Lutovac, M Haritou, ... The 3rd International Symposium on Biomedical Engineering, 328-331	6	2008
Vision inspection of web textile fabric R Stojanovic, P Mitropoulos, C Koulamas, S Koubias, G Papadopoulos QCAV, France	6	1999
Edge Detection in JPEG Grayscale Images M Hagara, O Ondráček, P Kubinec, R Stojanović 2019 8th Mediterranean Conference on Embedded Computing (MECO), 1-4	5	2019
Development of educational cyber-physical Internet of Things platform study of the PID controller A Škraba, A Koložvari, D Kofjač, B Vavtar, R Stojanović, V Stanovov, ... 2018 7th Mediterranean Conference on Embedded Computing (MECO), 1-4	5	2018
Prototype of group heart rate monitoring with NODEMCU ESP8266. Embedded Computing (MECO) A Škraba, A Koložvari, D Kofjač, R Stojanović, V Stanovov, E Semenkin 2017 6th Mediterranean Conference on. DOI 10	5	2017
Streaming pulse data to the cloud with bluetooth LE or NODEMCU ESP8266. Embedded Computing (MECO) A Škraba, A Koložvari, R Stojanović, V Stanovov, E Semenkin 2016 5th Mediterranean Conference on. IEEE. DOI 10	5	2016
Real-time processing and analysis of cardiac signals using Android smartphones N Filipovic, R Stojanović, A Caplanova 2014 3rd Mediterranean Conference on Embedded Computing (MECO), 307-310	5	2014
A single chip system for ECG feature extraction S Knežević, R Stojanović, D Karadaglić, B Ašanin 2013 2nd Mediterranean Conference on Embedded Computing (MECO), 88-92	5	2013
Visual analytics tool for urban traffic simulation A Debiasi, F Prandi, G Conti, R De Amicis, R Stojanović Proceedings of the 6th International ICST Conference on Simulation Tools and ...	5	2013
Fluorescence spectroscopy of an in vitro model of human cervical neoplasia identifies graded spectral shape changes with neoplastic phenotype and a differential effect of ... D Karadaglić, AD Wood, M McRobbie, R Stojanović, CS Herrington Cancer epidemiology 33 (6), 463-468	5	2009

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Single LED takes on both light-emitting and detecting duties R Stojanovic, D Karadaglic	5	2007
FPGA Implementation of Unimodal Thresholding M Hagara, O Ondráček, P Kubinec, R Stojanović 2021 10th Mediterranean Conference on Embedded Computing (MECO), 1-4	4	2021
Clinical application of a portable motion capture system: A methodology SP Savic, G Devedzic, B Ristic, A Matic, N Prodanovic, R Stojanovic 2018 7th Mediterranean Conference on Embedded Computing (MECO), 1-4	4	2018
FPGA based capacitive touch pad/interface R Stojanović, N Lekić, Z Mijanović, J Kovačević 2013 IEEE XXXIII International Scientific Conference Electronics and …	4	2013
Gepsus: simulation-based decision making system for air pollution accidents R Stojanović, A Škraba, S Berkowicz, R De Amicis, D Elhanani, G Conti, … Organizacija 45 (5), 200-210	4	2012
Identification of anatomical landmarks for intelligent postural sensing G Devedžić, R Stojanović, V Luković, S Ćuković, D Milošević 2012 Mediterranean Conference on Embedded Computing (MECO), 70-73	4	2012
Integrating air-pollution dispersion simulation models and GIS for urban air-pollution emergency management A Škraba, R Stojanović, R de Amicis, S Berkowicz, G Conti, D Elhanani, … Proceedings of International Conference, MATHMOD	4	2012
An economical and feasible teaching tool for biomedical education R Stojanovic, D Karadaglic 2011 24th International Symposium on Computer-Based Medical Systems (CBMS), 1-5	4	2011
Robust system for automated wood inspection RD Stojanovic, GD Papadopoulos, P Mitropoulos, I Konstantinidis Machine Vision Applications in Industrial Inspection IX 4301, 20-30	4	2001
Acquisition and control of linear CCD sensors using an EPP interface R Stojanovic, G Karayanis Measurement Science and Technology 11 (5), N81	4	2000
Dependence of sub-pixel accuracy of edge detection in 1-D images on number of used samples M Hagara, O Ondráček, R Stojanović 2015 4th Mediterranean Conference on Embedded Computing (MECO), 208-211	3	2015
Monitoring and analysis of vital physiological parameters using PDA devices N Filipović, R Stojanović, N Lekić, A Ćaplánová 2014 24th International Conference Radioelektronika, 1-4	3	2014
FPGA implementation of histogram-based thresholding M Hagara, P Kubinec, A Šatka, R Stojanović 2022 11th Mediterranean Conference on Embedded Computing (MECO), 1-4	2	2022
Parametrization of bass diffusion model on COVID-19 first wave data A Škraba, B Vavtar, V Stanovov, E Semenkin, R Stojanović	2	2021

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IOP Conference Series: Materials Science and Engineering 1047 (1), 012084		
Enhancing visual recognition for door status identification in aal robots via machine learning A Spournias, C Antonopoulos, G Keramidas, N Voros, R Stojanović 2020 9th Mediterranean Conference on Embedded Computing (MECO), 1-6	2	2020
Grayscale image formats for edge detection and for its FPGA implementation H Miroslav, S Radovan, B Tomáš, K Peter, O Oldřich Microprocess. Microsyst 75	2	2020
Localization of moving edge with sub-pixel accuracy in 1-D images and its FPGA implementation M Hagara, R Stojanović, P Kubinec, O Ondráček Microprocessors and Microsystems 51, 1-7	2	2017
Putting Cloud 9 IDE on the Wheels for Programming Cyber-Physical/Internet of Things Platforms A Skraba, V Stanovov, E Semenkin, A Kolozvari, R Stojanovic, D Kofjac Proceedings of the 13th International Conference on Informatics in Control …	2	2016
Eugene Semen kin, Streaming Pulse Data to the Cloud with Bluetooth LE or NODEMCU ESP8266 A Skraba, A Kolozvari, D Kofjac, R Stojanovic, V Stanovov 5th Mediterranean Conference on Embedded Computing, MEeO	2	2016
Addressing the need for practical exercises in biomedical engineering education for growing economies R Stojanović, M Hagara, O Ondracek, A Caplanova 2015 4th Mediterranean Conference on Embedded Computing (MECO), 416-421	2	2015
The identification system for monitoring of teaching activities N Lekić, Z Mijanović, R Stojanović 2011 IEEE EUROCON-International Conference on Computer as a Tool, 1-4	2	2011
A feasible teaching tool for physiological measurement R Stojanovic, D Karadaglic, B Asanin, O Chizhova XII Mediterranean Conference on Medical and Biological Engineering and …	2	2010
Co-existence performance evaluation of wireless computer networks in a typical office environment AI Miaoudakis, DI Stratakis, E Antonidakis, V Zaharopoulos, R Stojanović Computer Science and Information Systems 6 (1), 169-184	2	2009
An approach to monitoring of physiological signals using Bluetooth R Stojanovic, Z Tafa, N Lekic 2006 International Conference on Applied Electronics, 185-188	2	2006
Reconfigurable System for Calculation of Laser Spot Position Inside 2D Image Sensor R STOJANOVIC, N SOLAJA, N LEKIC Tran. on Electronics 1 (3), 467-471	2	2004
Local frequency estimation based on the Wigner distribution I Djurovic, LA Stankovic, S Stankovic, R StojanoviC Proceedings 2001 International Conference on Image Processing (Cat. No …	2	2001

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Acquire And Control Linear CCD Sensors Using EPP Protocol R Stojanovic Electronic Design, March 20	2	2000
SYNTROFOS: A Wearable Device for Vital Sign Monitoring, Hardware and Signal Processing Aspects R Stojanović, J Djurković, S Mijušković, B Lutovac, A Škraba 2023 12th Mediterranean Conference on Embedded Computing (MECO), 1-6	1	2023
Identification of COVID-19 spread mechanisms based on first-wave data, simulation models, and evolutionary algorithms V Stanovov, S Grabljevec, S Akhmedova, E Semenkin, R Stojanović, ... Plos one 17 (12), e0279427	1	2022
COVID-19 Related System for Real-Time Patients Monitoring and Tracking Technical Report A Bošković, S Bijelić, J Sudžum, R Stojanović University of Montenegro: Podgorica, Montenegro	1	2022
The Case study of application Hilbert transform in ECG signal processing D Jankovic, R Stojanovic WiPiEC Journal-Works in Progress in Embedded Computing 7 (2), 1-2	1	2021
Detecting edges with sub-pixel precision in JPEG images M Hagara, O Ondráček, P Kubinec, R Stojanović 2017 27th International Conference Radioelektronika (RADIOELEKTRONIKA), 1-6	1	2017
Proposal of integrated software system for simulation and GIS visualization of accidents caused by emission of hazardous gases Ž Kovačević, R Stojanović CMBEBIH 2017: Proceedings of the International Conference on Medical and ...	1	2017
Modelling and Simulation of Accidental Air Pollutant Dispersion in Urban Areas–an Approach Suitable for Developing Countries Ž Kovačević, R Stojanović, G Nikolić WiPiEC Journal-Works in Progress in Embedded Computing 2 (1)	1	2016
Hardware-software system for simulation of hazardous gas releases V Popović, R Stojanović, M Dragović, J Kovačević, A Škraba, S Berkowicz, ... 2012 Mediterranean Conference on Embedded Computing (MECO), 62-65	1	2012
A fully digital approach in sensing and processing photoplethysmographic signal R Stojanovic, B Asanin, D Karadaglic 2009 2nd International Conference on Biomedical Engineering and Informatics, 1-4	1	2009
A Multifunctional Microcontroller Device Which Can be Connected to RS232 Hub N Lekic, Z Mijanovic, R Stojanovic, D Filipovic 2006 International Conference on Applied Electronics, 109-112	1	2006
Monitoring of physiological signals using Bluetooth Z Tafa, R Stojanovic, K Perakis, N Mrkic International conference TELEINFO	1	2006

TITLE	CITED BY	YEAR
Monitoring of the processed surface quality by an acoustic emission application Z Vukasin, V Radomir, S Radovan Proceedings of the 5th WSEAS International Conference on Signal and Image ...	1	2005
The intelligent agent: An analysis of the experimental results. JE Poliscuk, RD Stojanovic WSEAS Transactions on Systems 3 (10), 3248-3253	1	2004
Novel method for determination of spot/line position in the array-based triangulation sensors RD Stojanovic, P Mitropoulos, S Stojanovic, GD Papadopoulos Optical Measurement Systems for Industrial Inspection II: Application in ...	1	2001

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University of Montenegro

Broj / Ref 03 - 4204

Datum / Date 25. 12. 2018

Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju („Službeni list Crne Gore" br. 44/14, 47/15, 40/16, 42/17, 71/17 i 55/18) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 25.12. 2018.godine, donio je

O D L U K U
O IZBORU U ZVANJE

Dr MILAN ŠEKULARAC bira se u akademsko zvanje **docent Univerziteta Crne Gore** za oblast Termotehnika na **Mašinskom fakultetu Univerziteta Crne Gore**, na period od pet godina.

SENAT UNIVERZITETA CRNE GORE
PREDSJEDNIK

Prof.dr Danilo Nikolić, rektor

Crna Gora
UNIVERZITET CRNE GORE
MAŠINSKI FAKULTET

Primljeno: 09. 01. 2019			
Org. jed.	Broj	Prilog	Vrijednost
	02		

Milan ŠEKULARAC PhD mech.eng. - Curriculum Vitae

1. CURRENT POSITION
Assistant Professor at Faculty of Mechanical Engineering,
Laboratory for Fluid Mechanics and Energy Processes
University of Montenegro

First Name: **MILAN**
Family Name: **ŠEKULARAC**
Contact:

Gmail:	milan.sekularac.mne@gmail.com
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Web:	http://www.ucg.ac.me/objava/blog/17838/objava/1
Youtube:	https://www.youtube.com/channel/UCOuNe9mBex9RTVf7Yiaw89w/videos

2. EDUCATION
Grad and undergrad
❖ PhD mech. eng. *„Analysis of flow fields in complex ventilation systems of traffic tunnels"*, *Mechanical Engineering Faculty, University of Montenegro, 2015;*
❖ MSc. mech.eng. *„Analysis of the dynamics in a HVAC system consisting of heat pump with air-handling unit"*, *Mechanical Engineering Faculty, University of Montenegro, 2008;*
❖ Dipl.-Ing. mech.eng. *„Numerical simulation of heat and mass transfer in Czochralski crystal growth process under the efect of radial-axial magnetic field "*, *Mechanical Engineering Faculty, University of Montenegro, 2005;*

Postdocs & recent trainings

❖ **STANFORD UNIVERSITY Cardiovascular Biomechanics Computation (Prof. Dr Alison Marsden) CFD of blood flow**
Fulbright Visiting scholar in 2016, at the "Cardiovascular Biomechanics Computation Lab" of Prof.Dr Alison Marsden, Stanford University. Outline: 3D-CAD model generation from MRI data, boundary conditions modelling through multiscale approach, and FEA simulation of blood flow of a database of pediatric patients affected by a cardiovascular disorder (Kawasaki aneurisms on coronary arteries). The ultimate goal: better understanding of flow criteria for prescription of anticoagulation therapies, and possible surgical treatments;
❖ **VUB UNIVERSITY in Brussels - Combustion in Open Foam at the group BURN – Prof. Dr Francesco Contino**
Related to my interests in CFD of flame and fires and the general combustion problems solving in the Open Foam open-source software framework.

3. RESEARCH PROJECTS
1. **Analysis of flow and fire scenarios in traffic tunnel ventilation design.** National research project lead by Prof.Dr.Petar Vukoslavčević. A combined CFD and experimental assessment of turbulent flows in ventilated tunnels, axial ducted fans, and the fire safety scenarios. Experimental research conducted on a scaled Lab. model of a ventilated traffic tunnel that I designed and built myself, equipped with appropriate scaled axial ducted fan models.
2. **Development of Hot-Wire Anemometry circuits for hot-wire measurement technology.** Lead by Prof.Petar Vukoslavčević, aimed at the development of an updated design of these circuits with optimized performance, increased frequency response, even better signal-to-noise rations and measurement sensitivity. Applications in velocity and temperature measurements in turbulent flows. Experimental verification utilizing state-of-the-art-hot wire probes, and sensors of 2.5, 1 and 0.6 micrometer diameter. Optimization of the hotwire probe design through experiments and CFD.

3. **Flow fields in rotating turbomachinery.** Joint work by Laboratory for Turbomachinery and Energy Systems, University of Belgrade and my Lab. Development of laser and hot-wire anemometry measurement technology and CFD approaches to assess the complex flow fields in rotating machinery, primarily axial fans.
4. **Undergrad research experiences.** Institute of Fluid Mechanics - LSTM, University of Erlangen - Nuremberg, Germany. A numerical simulation of heat and mass transfer in the "Czochralski" crystal growth process, under the effect of a radial-axial (cusp shaped) magnetic field, where I used a LSTM's research CFD code to compute the flow and heat transfer, the shape of the solid-liquid interface, in an industry case crucible furnace geometry.

4. LANGUAGE SKILLS

(1-basic to 5-profficient)

Language	Reading	Speaking	Writing
Serbian-croatian-montenegrin	Native	Native	Native
English	5	5	5
Italian	5	4	4
German	1	1	1

5. SKILLS

a) General computer skills

- ❖ Text editors: Microsoft Office, LATEX, Sublime, Emacs
- ❖ Programming proficient: MATLAB / Octave / C
- ❖ Programming basic: Python
- ❖ Graphics: TecPlot, ANSYS CFD-Post, Paraview
- ❖ CAD profficient: 3D AutoCAD

b) CFD – Computational Fluid Dynamics
Using commercial tools:
- ❖ ANSYS Workbench CFD environment software: Ansys Mesher, FLUENT, CFX, CFD-Post post-processing

Open Source CFD tools:
- ❖ Self-written codes for numerical solution of flows with heat transfer using finite volume approach, in Matlab
- ❖ Open Foam CFD basic skills, current field of interest
- ❖ FASTEST 3D (german open source academic CFD solver) used it for flow and heat transfer simulations on a workstation computer.
- ❖ SimVascular (Stanford) for Cardiovascular biomechanics – blood flow CFD (and vessel deformation) computation FEA open-source solver with CAD pre-and post-processing tools (Paraview), current field of interest

c) Experimental fluid dynamics, heat transfer, and HVAC skills

- ❖ **Experimental fluid mechanics**
  "Hot-wire" or thermal anemometry under the guidance of Prof.Petar V. Vukoslavčević, a leading expert in the field. Calibration and measurements by hot-wire probes for measurement of velocity and temperature in turbulent flows. Utilisation of in-house Fortran codes for calibration and processing of hot-wire anemometry measurements. Self-written Matlab codes for processing of measurement data, signal-processing and graphic processing in Matlab and TecPlot. Experience in use of Data Translation's DAQ hardware and their DAQ software.
- ❖ **Ventilation and fire safety**

Research on flow field and fire scenarios in a Lab model of a traffic tunnel. Use of hot-wire probe for air-velocity, Pitot tubes, differential pressure transducers and thermocouple DAQ system. Realization of a fires-scenario experiment, utilising a buthane burner and temperature DAQ equipment. CFD of tunnel-fire scenarios.

❖ **HVAC, Renewable Energy, and Energy Efficiency**
 - An experimental study on a laboratory HVAC system (heat pumps plus air-handling unit) performance and its time-dynamics. Monitoring of the characteristic temperatures within a vapour – compression cycle heat pump with an air-handling unit system. Numerical simulation of the system's performance and operation with respect to time, using a self-made MATLAB code simulating the heat thermodynamic-cycle perating with R407C refrigerant coupled to an air handling unit, operation in time.
 - CFD assessment of a ground to air heat exchanger for passive heating, in the given climatic conditions of the capital city of Montenegro, both in summer and winter use.
 - Energy use performance assessment and energy audits in buildings. Algorithms for calculation of cooling loads and energy indicators. Measurements of flow, pressure, temperature, and COP on HVAC installations. Certified energy auditor.

d) **Lecturing**
I currently teach or I've taught the following courses:
❖ Thermodynamics
❖ Applied Thermodynamics
❖ Heat and Mass Transfer,
❖ Numerical methods for fluid - thermo dynamics (CFD)
❖ Air-conditioning
❖ Measurement and simulation of energy processes
❖ Hydraulic and pneumatic conveyance
❖ Energy consumption and efficiency
❖ Boilers
❖ Introduction to engineering drawing geometry - CAD.

6. **CURRENT WORK**

❖ CFD in reactive flows. Flows in a fire scenario. Traffic tunnels with longitudinal ventilation. Effects of radiation heat losses on temperature field development. Ventilation efficiency. Multiscale approach in long tunnels. Use of ANSYS solvers and the Open Foam. Mixture-fraction approach in modelling reactive flow. Discrete ordinates method for RTE. Combustion in Open Foam.
❖ Experiments in fluids. Use of hot-wire anemometry and laser techniques.
❖ Cardiovascular biomechanics: Flows in coronary arteries. CAD model generation from MRI & CT scan medical image data.

7. **FURHER INTERESTS**
❖ IGA (isogeometric analysis), multiscale approaches, and optimisation methods
❖ Rotating geometry (fans) CFD
❖ Heat transfer applications

8. **PUBLICATIONS**
❖ *Tombarević Esad, Vušanović Igor, Šekularac Milan. The Impact of Windows Replacement on Airtightness and Energy Consumption of a Single Apartment in a Multi-Family Residential Building in Montenegro: A Case Study. Energies* **2023**, *16(5), 2208*
❖ *Vukoslavčević Petar, Šekularac Milan. Critical review of the common methods to determine the buoyancy-chimney effects in longitudinally-ventilated traffic tunnel fires. Review article. Advances in Mechanical Engineerings, SAGE, 2022.*

❖ Šekularac, B. Milan, Janković. *Experimental and Numerical Analysis of Flow Field and Ventilation Performance in a Traffic Tunnel Ventilated by Axial Fans; Theoretical and Applied Mechanics Journal, Academy of Sciences and Arts of Serbia, 2017.*

❖ Šekularac, B. Milan, Jankovic, Z. Novica, Vukoslavcevic, V.Petar. *Ventilation Performance and Pollutant Flow in a UnidirectionalTraffic Road Tunnel. Thermal Science Journal, DOI: 10.2298/TSCI160321117S. 2016.*

❖ Šekularac, B. Milan. *Experimental Determination of Tunnel Ventilation Ducted Fan Performance. Thermal Science Journal, DOI.10.2298/TSCI 140624108S. 2014.*

❖ Šekularac, B.Milan, Vukoslavčević, V.Petar. *One Approach to Experimental and Numerical Investigation of Longitudinally Ventilated Road Tunnels. ICTTE Conference on Traffic and Transport Engineering, Belgrade. Nov.2012.*

❖ Šekularac, M, Radulović, P. *Energy Efficiency of Ventilation Systems of Longitudinally Ventilated Traffic Tunnels (in serbian). International conference on Alternative energy sources and energy efficiency, CANU – Montenegrin Academy of Sciences and Arts. Oct.2011.*

❖ Šekularac M, Tombarević E. *Analysis of Geothermal Heat Exchanger „AirtoGround" in the Climatic Conditions of Podgorica City (in serbian). International conference on Alternative energy sources and energy efficiency, CANU – Montenegrin Academy of Sciences and Arts. Oct.2013.*

❖ Vukoslavčević P., Šekularac M., Wallace J., Balaras E., Beratlis N. *The accuracy of crossstream velocity gradients measured by a multisensor hotwire probe. American Physical Society, 62nd Annual Meeting of the APS Division of Fluid Dynamics, Nov. 2224, 2009.*

❖ Tombarević E., Šekularac M. *2DAnalysis of the Cooling Potential of Underground Waters of Podgorica City (in serbian). International conference on Alternative energy sources and energy efficiency, CANU – Montenegrin Academy of Sciences and Arts. Oct.2009.*

❖ Šekularac M., Vušanović I. *System Dynamics of a Heat Pump with Climatic Chamber in Cooling Regime of Operation (in serbian). Journal of KGH, Serbian Society of Airconditioning, Heating and Refrigeration Engineers. Belgrade, Sept. 2008.*

❖ Vuksanović D., Kažić N., Šekularac M. *Analysis of Energy Efficiency of One Office Building in Podgorica. COSMO EE Conference, 2010.*

9. OTHER INTERESTS / sports / culture / volunteer /

Languages: English, Italian, German

Sports

❖ Competitor in archery, national champion, various regional, central-European, US regional, competitor and medal winner, competitor at three World and at one European championships in Target and in Field archery. Competitor in several disciplines (archery styles) and tournament formats;

❖ Founder and currently Director of National Archery Association, Club coach;

Other interests

❖ Design of archery equipment using composite materials.

Milan Šekularac

University of Montenegro, Mechanical
Engineering Faculty

Mechanical Engineering
Energy
Flow Physics
CFD

	All	Since 2018
Citations	18	16
h-index	2	2
i10-index	0	0

TITLE	CITED BY	YEAR
Experimental determination of tunnel ventilation axial ducted fan performance MB Šekularac Thermal science 20 (1), 209-221	8	2016
Experimental and numerical analysis of flow field and ventilation performance in a traffic tunnel ventilated by axial fans M Sekularac, N Janković Theoretical and Applied Mechanics 45 (2), 151-165	5	2018
The Impact of Windows Replacement on Airtightness and Energy Consumption of a Single Apartment in a Multi-Family Residential Building in Montenegro: A Case Study E Tombarević, I Vušanović, M Šekularac Energies 16 (5), 2208	2	2023
Ventilation performance and pollutant flow in a unidirectional-traffic road tunnel MB Šekularac, NZ Janković, PV Vukoslavčević Thermal Science 21 (suppl. 3), 783-794	2	2017
One Approach to Experimental and Numerical Investigation of Longitudinally Ventilated Road Tunnels MB Šekularac, PV Vukoslavčević TRANSPORT ENGINEERING, 499	1	2012
Process of Rapid Prototyping Using Wind Turbine as an Object of Experimental Research M Šibalić, N Šibalić, M Šekularac, A Vujović International Conference "New Technologies, Development and Applications …		2022
ON HEAT TRANSFER COEFFICIENTS AND TEMPERATURE DISTRIBUTION IN LONGITUDINALLY VENTILATED TUNNEL FIRES M Šekularac 11th International Conference 'Tunnel Safety and Ventilation' 2022, Graz 105 …		2022
Critical review of the common methods to determine the buoyancy-chimney effects in longitudinally-ventilated traffic tunnel fires PV Vukoslavčević, MB Šekularac Advances in Mechanical Engineering 14 (5), 16878132221098859		2022
In situ measurements of pollutants emissions from individual coal and briquette fired furnaces in Pljevlja MŠ Vladan Ivanović, Esad Tombarević 19th Conference on Thermal Science and Engineering of Serbia Sokobanja …		2019

TITLE	CITED BY	YEAR
FIELD MEASUREMENTS OF EMISSIONS OF POLLUTANTS FROM CITY COAL FIRED BOILER ROOMS IN PLJEVLJA MŠ Vladan Ivanović, Esad Tombarević VII Regional Conference: Industrial Energy and Environmental Protection in …		2019
Dinamika sistema toplotne pumpe sa klima-komorom u rashladnom režimu rada M Šekularac, I Vušanović		
Comparative measurement of flue gas emissions during the subsequent combustion of coal and briquettes in large central heating boilers V Ivanovic, E Tombarevic, M Sekularac		
ANALIZA GEOTERMALNOG RAZMJENJIVAČA TOPLOTE ZEMLJA-VAZDUH U KLIMATSKIM USLOVIMA PODGORICE MB Šekularac, EM Tombarević		
2D analiza rashladnog potencijala podzemnih voda Podgorice E Tombarević, M Šekularac		

РЕПУБЛИКА СРБИЈА
ЕЛЕКТРОТЕХНИЧКИ ФАКУЛТЕТ
УНИВЕРЗИТЕТА У БЕОГРАДУ
Број 1376/3
Датум 1 0 DEC 1997 199___ год.
БЕОГРАД

На основу чл.85 Закона о универзитету (Сл.гласник РС бр.54/92 и Сл.гласник 39/93) и чл.78 Статута Електротехничког факултета у Београду, Изборно веће Електротехничког факултета на својој 498. седници одржаној дана 02.12.1997. године, донело је

О Д Л У К У
О ИЗБОРУ У ЗВАЊЕ

Др Вељко Милутиновић, изабран је у звање редовног професора са пуним радним временом за област-предмет Рачунарска техника и информатика.

О б р а з л о ж е њ е

На основу одлуке Изборног већа са 489. седнице од 08.07.1997. године расписан је конкурс за избор редовног професора са пуним радним временом за област-предмет Рачунарска техника и информатика.

Вељко Милутиновић поднео је благовремено пријаву на конкурс са доказом о испуњености услова конкурса. Стручна комисија формирана одлуком Изборног већа бр. 490. од 22.07.1997. године, поднела је реферат и предлог за избор Вељка Милутиновића у звање редовног професора са пуним радним временом за област-предмет Рачунарска техника и информатика. Изборно веће је разматрало реферат и предлог Комисије на 498. седници од 02.12.1997. године и донело одлуку о избору Вељка Милутиновића у звање редовног професора са пуним радним временом.

На основу напред изнетог донета је одлука као у диспозитиву.

ПРАВНА ПОУКА: Против ове Одлуке може се поднети приговор Изборном већу ради преиспитивања донете одлуке у року од 15 дана од дана пријема исте.

Доставити:
- Именованом
- Референту стручних органа
- Кадровској служби
- Архиви.

Декан
Електротехничког факултета

Проф.др Боривој Лазић

Prof. Veljko Milutinovic (1951) received his PhD from the University of Belgrade in Serbia, spent about a decade on various faculty positions in the USA (mostly at Purdue University and more recently at the University of Indiana in Bloomington), and was a co-designer of the DARPAs pioneering GaAs RISC microprocessor on 200MHz (about a decade before the first commercial effort on that same speed) and was a co-designer also of the related GaAs Systolic Array (with 4096 GaAs microprocessors). Later, for almost three decades, he taught and conducted research at the University of Belgrade in Serbia, for departments of EE, MATH, BA, and PHYS/CHEM. His research is mostly in datamining algorithms and dataflow computing, with the emphasis on mapping of data analytics algorithms onto fast energy efficient architectures. Most of his research was done in cooperation with industry (Intel, Fairchild, Honeywell, Maxeler, HP, IBM, NCR, RCA, etc...). For 10 of his books, forewords were written by 10 different Nobel Laureates with whom he cooperated on his past industry sponsored projects. He published 40 books (mostly in the USA), he has over 100 papers in SCI journals (mostly in IEEE and ACM journals), and he presented invited talks at over 400 destinations worldwide. He has well over 2000 Thomson-Reuters WoS citations, well over 2000 Elsevier SCOPUS citations, and about 6000 Google Scholar citations. His Google Scholar h index is equal to 40. He is a Life Fellow of the IEEE since 2003 and a Member of The Academy of Europe since 2011. He is a member of the Serbian National Academy of Engineering and a Foreign Member of the Montenegro National Academy of Sciences and Arts.

Др Вељко Милутиновић, редовни професор у пензији

Електротехнички факултет Универзитета у Београду

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Објављене књиге, поглавља у монографијама и едитоване монографије

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72. V. Milutinovic, D. Fura, and W. Helbig, "Impacts of GaAs on Microprocessor Architecture," IEEE International Conference on Computer Design: VLSI in Computers, ICCD'85, Vol. 30, 1985.
73. V. Milutinovic, J. Crnkovic, L.-Y. Chang, H. J. Siegel, "The Loco Approach to Distributed Task Allocation in AIDA by VERDI," 5th International Conference on Distributed Computing Systems, ICDCS 1985, pp. 359-368, 1985.
74. V. Milutinovic, "One approach to microprocessor implementation of 4800 b/s data modem for telephone channels," IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP '84, pp. 402-405, 1984.
75. V. Milutinovic, D. Roberts, K. Hwang, "Mapping HLL constructs into microcode for improved execution speed," Proceedings of the 17th ACM/IEEE annual workshop on Microprogramming, MICRO 1984, Vol. 15 (4), pp. 2-11, 1984.
76. V. Milutinovic, "Weighted Partial Detection of Data Signals," IEEE Information Theory Conference, Santa Monica, CA, USA, 1982.
77. V. Milutinovic, "HF Radio Modem: Software Issues," International Michael Pupin Conference on HF Data Modem Desing, 1981.
78. V. Milutinovic, "HF Radio Modem: Hardware Aspects," Euromicro Conference, 1980.
79. - 100. V. Milutinovic, "Chairman's Introduction: Advances in Computing," VIPSI Conferences, 2003 – 2010 (22 conferences in the series, from Tokyo and Sendai till California and Hawaii).

Радови у часописима националног значаја M50

Радови у научним часописима M53

1. V. Milutinovic, "DataFlow SuperComputing," Journal of the Electrotehnical Faculty of the Univeristy of Montenegro, 2016.
2. Milutinovic, V., "A Structured Approach to Research for PhD Students in Computer Science and Engineering: How to Create Ideas, Conduct Research, and Write Papers," The IPSI BgD Transactions on Internet Research, vol. 11(2), pp. 46-54, 2015.
3. A. Mihajlović, V. Jelisavčić, B. Marinković, Z. Ognjanović, V. Milutinović, "An Overview of and Innovative Perspectives for the Serbia-Forum Cultural Heritage Digitization Project," Review of the National Center for Digitization, Faculty of Mathematics, Vol. 25, pp. 17-21, 2014.
4. V. Milutinović, J. Salom, V. Jelisavčić, V. Filipović, A. Mihajlović, Z. Ognjanović, Z. Marković, A. Kos, S. Tomažič, H. Maurer, "Heritage Portals and Heritage Mining: Synergizing Data and Image

Mining Under Uncertainty Constraints," The IPSI BgD Transactions on Internet Research, Vol. 10 (2), pp. 53-56, 2014.

5. E. Savic, J. Potic, Z. Babovic, G. Rakocevic, V. Strineka, V. Milutinovic, "Sensor Nets and Data Mining in Medical Applications," The IPSI BgD Transactions on Internet Research, Vol. 10 (1), pp. 28-33, 2014.

6. E. Varga, B. Furlan, V. Milutinovic, "Document Filter Based on Extracted Concepts," The IPSI BgD Transactions on Internet Research, vol. 6(1), pp. 5-9, 2010.

7. S. Tomazic, V. Milutinovic, "Hot Topics in Computer Science and Engineering,"The IPSI BgD Transactions on Internet Research, vol. 6(1), pp. 31-35, 2010.

8. Z. Babovic, D. Jovic, V. Milutinovic, "Survey of eGovernment Services in Serbia," Informatica (Slovenia), vol. 31(4), pp. 379-396, 2007.

9. V. Milutinovic, S. Tomazic, "How to Ruin the Carrier of a Ph.D. Student: Precise Guidelines," The IPSI BgD Transactions on Advanced Research, vol. 3(2), pp. 1-2, 2007.

10. B. Furht, V. Milutinovic, "Advances in Memory Management," Journal of the Electrotechnical Faculty of the University of Ljubljana, 1988.

Техничка Решења М80

1. Ivković S., Ilić L., Radojičić R., Stanković M., Babović Z., prof. Bojović M. i prof. Milutinović V. "Akceleracija algoritma Izvor-ponor modela za vremensku prognozu", 2015 (**M83 – Novi tehnološki postupak**).

2. Jelisavčić V., Korolija N., Babović Z., prof. Bojović M., prof. Milutinović V. „Sistem za obučavanje neuralnih mreža na velikim podacima zasnovan na Apache Spark platformi", 2015 (**M85 – Softver**).

3. Mihajlovic A., Marinković B., Milutinović V., Jelisavčić V., Ognjanović Z., Knežević M., "Serbia Forum," 2015 (**M84 – Bitno poboljšani softver**).

4. V. Milutinovic, "Digital Data Modem Design," Purdue University Technical Report, 1985.

Међународни и национални пројекти

1. МПНТР ИИИ44006 - Развој нових информационо-комуникационих технологија, коришћењем напредних математичких метода, са применама у медицини, телекомуникацијама, енергетици, заштити националне баштине и образовању, Руководилац потпројекта, 2011-2016.

2. Иновациони пројекат МПНТР #N5QQ5C: Примена метода за проналажење знања над великом количином података, 2014-2015.

3. Иновациони пројекат МПНТР #451-03-00605/2012-16/198: Клауд сервиси за апликације са захтевима за високим перформансама, 2011-2012.

4. ЕУ FP7 пројекат #288076 BALCON: Boosting EU-Western Balkan Countries research collaboration in the Monitoring and Control area, 2010-2012.

5. ЕУ FP7 пројекат #205494 ProSense: Promote, Mobilize, Reinforce and Integrate Wireless Sensor Networking Research and Researchers: Towards Pervasive Networking of West Balkan Countries and the EU, 2007-2010.

6. Иновациони пројекат МПНТР #391-00-00027/2009-02/142: Софтвер за аквизицију, мониторинг и обраду података са сензорских мрежа у систему даљинског грејања, 2009-2010.

7. ЕУ FP7 пројекат #224297 ARTreat: Multi-level patient-specific artery and atherogenesis model for outcome prediction, decision support treatment, and virtual hand-on training, 2009-2011.

8. ЕУ FP7 пројекат HiPEAC: European Network of Excellence on High Performance and Embedded Architecture and Compilation, 2008-2012.

9. ЕУ FP6 пројекат #045472 We-Go:Enhancing Western Balkan eGovernment expertise, 2007-2008.
10. Иновациони пројекат МПНТР #451-01-02960/2006-70: Интероперабилни оквир за е-говернмент сервисе, 2007-2008.
11. Иновациони пројекат МПНТР #451-01-0065/2008-01/128: Мрежа знања е-Говернмент сервиса, 2008-2009.

Пројекти које је радио 80их година кроз Purdue University:

12. DARPA GaAs 200MHz RISC Microprocessor
13. DARPA GaAs Systolic Array for Gram-Schmidt Orthogonalization
14. NCR Basic VM Architecture for High-Level Languages
15. NCR Improved VM Architecture for High-Level Languages

Пројекти које је радио 70их у Институту Михајло Пупин

16. КТ радио модем (17 чврсто спрегнутих микропроцесора који раде ДФТ и arctg)
17. CCITT модем за телефонске канале на брзини 4800 бита/сек.

Индустријско истраживање и иновације:

18. Cache Injection, Intel, USA.
19. High-performance computer architecture, TechnologyConnect.
20. High-performance computer architecture, BioPop.
21. KT modem, IBM.
22. High-performance computer architecture, AT&T.
23. High-performance computer architecture, RCA.
24. High-performance computer architecture, Honeywell.
25. High-performance computer architecture, Fairchild.
26. High-performance computer architecture, HP.
27. High-performance computer architecture, Encore.
28. Split Cache за Sun Microsystems.
29. Иновације за фирму NCR током 90их година. Подршка за 8 тадашњих постдипломаца ЕТФ-а.
30. Имплементација микропроцесора Intel i860 у .isp за силицијумску компилацију у сложеним микропроцесорским системима (90их), описана до детаља у раду објављеном у IEEE Computer.
31. Educator P2P, Panthesis, for Boeing, USA, 2004.
32. Multimedia, IPSI-Fraunhofer Institute, Germany, Darmstadt, 2003-2004.
33. Иновације у домену Storage Technologies, за фирму StorageTek (касније Sun Microsystems, па Oracle Inc.) (после 2000).
34. Online betting, Finsoft, UK, London (касније GTECH, USA) (2005-2015).
35. Software Cache Management, Dow Jones, USA, 2006.
36. Banking applications, Komercijalna Banka, Srbija. (после 2010).
37. Banking applications, Banca Intesa, Srbija (после 2010).
38. Banking applications, Eurobank a.d., Srbija (после 2010).
39. ERP applications, Delta Holding, Srbija (после 2010).
40. Иновације у домену DataFlow, за фирму Maxeler Technologies (после 2010), описане у раду објављеном у часопису Communications of the ACM и више књига издатих од Springer и Elsevier издавача.

Предавања по позиву

Одабрана предавања по позиву изван Европе (100) на актуелне теме из архитектуре рачунара (GaAs, RISC, DSM, DataFlow):

USA:

1.   U of California, San Diego, 1983
2.   U of California, Irving, 1985
3.   UCLA, 1985
4.   USC, 1985
5.   U of California, Berkeley, 1991
6.   Stanford, 1991
7.   U of California, Santa Barbara, 1995
8.   U of California, Santa Clara, 1995
9.   Lawrence Livermore National Labs, 1997
10. Jet Propulsion National Labs, 1997
11. Fairchild, California, 1985
12. Intel, Oregon, 1986

13. Honeywell, Minnesota, 1986
14. CDC, Minnesota, 1986

15. ElectroSpace, Texas, 1987
16. AeroSpace, Texas, 1987

17. NCR, Dayton, Ohio, 1989
18. Ohio State U, 2016

19. Indiana U, Bloomington, 2016, 2017, 2018, 2019
20. Purdue U, West Lafayette, Indiana, 1983, 2006, ..., 2019
21. IUPUI, Indianapolis, 2012
22. U of Indianapolis, 2012

23. UIUC, Urbana-Champain, 2017
24. U of Chicago, 1985

25. U of Wisconsin, 2016
26. U of Michigan, 2016

27. U of Colorado in Boulder, 1987
28. U of Missouri in St. Louis, 1982

29. U of Tennessee in Louisville, 2016
30. U of Georgia in Atlanta, 2016

31. FAU, Boca Raton, Florida, 2014
32. FIU, Miami, Florida, 2014
33. U of Miami, Florida, 2014
34. U of Central Florida, Orlando, 2014

35.   U of Alabama, Huntsville, 2013
36.   U of Alabama, Birmingham, 2013

37.   Princeton, 2017
38.   NJIT, New Jersey, 2017
39.   RCA, New Jersey, 1983, 1984, 1985, 1986, 1987
40.   ATT, New Jersey, 1989

41.   World Bank, Washington DC, 2016
42.   U of Mariland, 1989

43.   CMU, Pittsburgh, 2016, 2019
44.   Temple, Philadelphia, 2016

45.   Yale, 2005
46.   Brown, 2005

47.   NYU, 2003, 2018
48.   CUNY Albany, 2005
49.   Columbia, 2015
50.   Brooklyn Poli, 1985
51.   Yahoo, NY, 2015
52.   IBM TJWatson, 1989, 2015, 2017
53.   CUNY Binghampton, 1988
54.   Cornell, 1985
55.   Brooklyn Poli, NY, 1985
56.   Mahnattanville U, 2015
57.   Fordham U, 2015
58.   Courant School of Math, 2018

59.   MIT, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018
60.   Harvard, 2016, 2017
61.   Boston U, 2017
62.   NEU, 2017
63.   Dartmouth U, 1988,
64.   U of Massachussets in Amherst, 2017

65.   U of Hawaii at Manoa, 1990
66.   HICSS, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, ...

CANADA:

67.   U of Toronto, 1985
68.   U of Montreal, 2002
69.   U of St Marry in New Hampshire, 1995
70.   U of New Hampshire in Halifax, 1995

MEXICO:

71.   Durango U, 2000, 2001, 2002
72.   UNAM, Mexico City, 2002
73.   U of Cuarnavaca, 2001

74.   U of Puebla, 2001
75.   Tech de Monterey, 2005
76.   U of Zacatecas, 2003

AUSTRALIA:

77.   U of Hobart, 1988
78.   U of Brisbane at Gold Coast, 1992
79.   Sydney U, 1988
80.   Sydney U of Technology, 1988

Japan:

81.   Tokyo U, 1985
82.   Metropolitan Institute of Tokyo, 2010
83.   Senday U, 2010
84.   OKI Data, Tokyo, 1985

Korea:

85.   ISCA, 1997
86.   Hyundai, 1997

China:

87.   Tsinghua, 2017
88.   Shandong, 2017

Singapore:

89.   NTU, 1998
90.   NIS, 1998

Turkey:

91.   Bogazici, Istanbul, 2011, 2013, 2015
92.   Koc, Istanbul, 2015
93.   Gazi U, Ankara, 2016
94.   METU, Ankara, 2016

Israel:

95.   Technion, 1988
96.   BerSheba, 1988
97.   Rafael, Netania, 1988
98.   Gabriel, Netania, 1988
99.   ISCA, Eilat, 1988
100. U of Haifa, 1988

НАПОМЕНА: Предавања по позиву у Европи држана у 40 разних земаља!