



# IRIF 2023 SKOPJE



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Faculty of Electrical Engineering and Information Technologies  
Ss. Cyril and Methodius University

Rugjer Boshkovik 18, Skopje, N. Macedonia

11-16 September 2023

## Idea East

The IDEA-EAST Hub project offers the opportunity to attract future young scientists and researchers to the university and to bind strong partners to the university in order to increase competitiveness in international academic and research projects. The HSA has maintained intensive contacts in the target regions since its founding and regularly conducts student and academic exchanges. This is realised, among other things, with funds from the ERASMUS+ (KA 107), Eastern Partnerships and Study Internships (both DAAD) programs, as well as from various research funds in the areas of renewable energies, data science and IIoT. The use of digital media in innovation processes and in international collaboration is already lived, for example in language training using the Rosetta Stone platform. The digital collaboration platforms Zoom and Webex are used intensively for transnational seminars and conferences, as well as for the organisation of innovation competitions with Ukraine. The IDEA-East digital collaboration platform will take these to a new dimension and bundle them with other digital offerings for all partners.

Anhalt University of Applied Sciences relies on innovative applied research for important future tasks and challenges such as energy transition, climate change and digitalization. Since the beginning of the year 2022 the project "Idea East" has been promoting knowledge and technology transfer in an innovative and international way. The exchange with partners in Ukraine, Kazakhstan and North Macedonia will be significantly strengthened. The university will be strategically positioned as an important partner for the region from Southeast Europe to Asia. With the support of the Ministry of Education and Research, innovation competitions and forums as well as innovation training and further education measures, will involve all members if the University is in the internationalisation process, and it will increase our competitiveness. The Idea East Hub project also offers the opportunity to recruit new young scientists and offer them a chance to stay through academic and research projects at our University.

More information:

<https://www.hs-anhalt.de/en/international/intercultural-encounters/idea-east-hub.html>

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## Anhalt University of Applied Sciences

The Anhalt University of Applied Sciences offers innovative teaching and research at international level, with international study and life quality at three sites in Bernburg, Dessau and Köthen. 65 Bachelor's and Master's courses in 7 departments prepare over 7,900 students – including 1,900 international students – with one main goal above all: a successful start to their careers.

More information:

<https://www.hs-anhalt.de/en/start-page.html>

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## Faculty of Electrical Engineering and Information Technology

The Faculty of Electrical Engineering and Information Technology strategic devotion is to further develop ourselves as a leading educational and research institution in the Republic of Macedonia in the field of electrical engineering and new technologies. Providing permanent continual technological innovation, quality and creativity in the student's curricula, we accomplish continual education of professional, creative and entrepreneurial individuals, that will work successfully in their professional orientation and that will create a new job, affirm new opportunities and discover new horizons.

More information:

<https://feit.ukim.edu.mk/>

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## Almaty University of Power Engineering and Telecommunication

AUPET forms the one of the best intellectual resources of the national economy of knowledge and the most advanced technologies for the industrial and innovative development of the country, adapted to the conditions of world integration and globalisation.

More information:

<https://aues.edu.kz/en>

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## Ajou University

Ajou University in Tashkent was established to nurture highly qualified personnel in accordance with the prospects for the socio-economic development of Uzbekistan. All departments of AUT provide 4-year daytime undergraduate courses, which are taught exclusively in English.

More information:

<https://www.ajou.uz/en>

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## Intebako

Intebako provides Solar energy solutions. Their technologies are made with an aim to maximise the usage of solar power and make it a commercially viable energy source. Intebako aims to create a sustainable future for their clients by offering them the most innovative, clean and reliable solar power solutions on the market. Intebako's team of professionals offer a complete range of services to assist your company in making the right decisions for installing solar panels. The team consists of experienced professionals that ensure every project is managed efficiently and in accordance with highest industry standards.

More information:

<https://www.intebako.com/>

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## Hanseatic Power Solutions GmbH

Hanseatic Power Solutions GmbH offers the entire value chain in-house, from the individual planning of systems to the delivery of the cabinet produced, including commissioning and service/maintenance. The company designs, manufactures and maintains switching and control systems of the highest quality in the areas of power generation and power distribution. They offer innovative and individual solutions with maximum security based on the latest technological standards.

More information:

<https://www.hps-power.com/de/>

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## Intertec

Intertec provides end-to-end solution development. Intertec unleashes the power of their software engineering competence to create scalable product architectures and deliver complex, integrated systems working ideally in tune with businesses. They enhance teams with talented specialists. Intertec helps team growth, expand technical expertise and accelerate the development of software or product with their remote agile teams dedicated to supporting their clients at all stages. They offer technology consulting services and prepare targeted strategies aimed at solving specific business challenges for companies of different sizes and in different industries.

More information:

<https://www.intertec.io/>

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## Datamajoris DOOEL

Datamajoris DOOEL senior management with 25+ years experience and contribution to the ICT industry, as well as the team of highly skilled and motivated professionals, are capable to efficiently support or completely carry out the processes of digital transformation and innovation, initiated by businesses embracing the changes incited by the new digital era. They are an ICT company that has the relevant technology knowledge and expertise. They also have a profound understanding of customer's business drivers. Those drivers intrinsically include the need for adaptation of new IT technologies by fostering innovative products and applications, faster time to market, ubiquitous presence in the digital domain or progressive automation of production processes. They have been cooperating with customers from different market segments, such as banking, telecom, utilities, manufacturing, public segment, implementing solutions and business processes for optimization and next level business elevation.

More information:

<https://datamajoris.com/>

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## DTK Smart Tech

DTK Smart-tech is a company working in the area of development and implementation of systems for measurement, analysis and management of electrical energy. Such systems contribute to increasing the energy efficiency of companies, thus saving money in terms of electricity. The savings gained by these systems are particularly important in companies in the industrial sector (industry with processes, food production, heavy industry, etc.), but also in other facilities in the public sector (administrative and residential buildings, schools, shopping malls and so on.). The primary activity of the company is development of hardware and software solutions in the field of management and control of electricity, as well as their adaptation to meet specific user requirements.

More information:

<http://www.dtksmarttech.com.mk/>

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## EVN

EVN AD Skopje is an energy company that has been active on the Macedonian market since 2006. It is part of the EVN AG Group, a leading European brand for services in the field of energy and environment. EVN now represents a larger family of companies that unite the same values for top customer service and resilience in every respect.

The newest member of the EVN family - EVN Home performs the role of universal electricity supplier and supplier of last resort. EVN Home supplies electricity to users who did not choose a supplier on the liberalised market.

EVN Supply offers high quality services to users who are supplied with electricity on the open market. A stable and reliable partner, with competitive and fair prices, EVN Supply, through its motivated expert team, offers businesses products that enable flexibility and long-term growth.

EVN Elektrani is an electricity production company. It operates 11 small hydro plants, all revitalized and fully automated. Their total installed power is 47 MW, while the average annual production is 140 GWh. This kind of production annually provides electricity for about 20,000 households.

Elektrodistribucija manages the distribution network and thus performs the activity of electricity distribution. In order to ensure a stable supply of electricity

to users, a series of measures. on-call teams to remove defects and act quickly and effectively, continuous investments are made in improving the quality of the network and reducing losses.

More information:

<https://www.evnonline.mk>

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## Energy Intelligence

With the strength of IoT, AI and cloud computing technologies, Energy Intelligence provides more secure, energy-saving & comfortable smart home solutions. Energy Intelligence provides smart solutions for homes, offices, apartments, hotels.

More information:

<https://www.energy-intel.com/>

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## Farmergy FE LLC

Farmergy had been on the lookout for opportunities to develop Uzbekistan's sizable sustainable energy potential. Initially looking into photovoltaic in the country, they have since switched focus to agriculture, representing a whopping 30% of Uzbekistan's GDP. This massive – and essential – sector produces large amounts of waste never put to proper use.

More information:

<https://annual-report-pfan.net/project/farmergy/>

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## Kabtel

Automation or automatic control is the use of various control systems for operating equipment such as machinery, processes in factories, boilers and heat treating ovens, switching on telephone networks, steering and stabilisation of ships, aircraft and other applications and vehicles with minimal or reduced human intervention, aimed at achieving higher productivity, improved quality of the final product, efficient use of energy and raw materials, improved safety in working conditions, etc.

The company offers solutions that provide the following key benefits: Full integration of all systems, web-based and fully automated, complete control over management and maintenance, remote control and control, predictable maintenance instead of preventive, increased service life for less maintenance systems, return on investment with increased profit, unique and customised solutions and smart buildings for making smart cities. Kabtels portfolio of network infrastructure solutions helps customers lay the groundwork for an organised and well structured network topology, interconnect devices using the latest advancements in the field of structured LAN cabling and fibre optics, provide reliable connection for remote hard-to-reach sites, achieve great network performance and speeds, to support modern devices and applications, provide fast and reliable connection for mobile users even in high density environments and future proof their investment to support the latest trends in digital transformation.

Kabtels portfolio of IT Security solutions addresses every security issue such as protection of endpoints, servers and mobile devices, protection of the perimeter and the entire network, increased automation and response to complex threats, authentication and secured access to resources, protection of critical infrastructure and services and professional on-demand cybersecurity services.

Kabtel offers several types of technical support systems such as fire detection systems, video surveillance systems, access control, systems for detecting gas and other hazardous materials, theft detection systems, alarm security systems and emergency lighting systems.

Their portfolio of hardware infrastructure solutions helps customers build foundations for their applications, services, data and business processes, future proof their investment to support current and future technology trends and concepts, provide reliable hardware for users to perform their daily tasks on, provide scalability and flexibility to support future growth, easily integrate them into their existing infrastructures and easily manage and maintain their hardware infrastructure without stretching the resources, both human and financial.

More information:

<https://kabtel.mk/en/>

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## Serafimoski Tech

Serafimoski Tech expert designers and engineers transform ideas into intricate CAD models, seamlessly transitioning to CAM for precise manufacturing. With state-of-the-art facilities, they turn designs into reality. Serafimoski Tech manufacturing expertise ensures every piece meets the highest standards of quality and accuracy. Seamlessly integrate digital processes into your operations. Their digitalization strategies enhance efficiency, data utilisation, and operational agility.

More information:

<https://serafimoski.tech/>

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## Intelligent Network Solutions

Intelligent Network Solutions develops GIS solutions for Web, Cloud and Mobile. Their solutions span and cover a good number of industries across the spectrum in both private and government sectors such as Telco, Oil and Gas, Education, Tourism, Biodiversity and natural environment, Land management and urban planning, Utility companies for waterworks or power distribution.

With technologies like Geoserver, qGIS, Postgis, ESRI they outsource GIS services like digitalization, georeferencing, conversion and import to RDBMS, GIS app development. With their in-house BIM expertise they outsource services such as BIM model QA/QC, data conversion processes from BIM to GIS and consultancy in the processes of BIM model authoring. With a strong international team, they offer smart software solutions for resolving business needs and problems, such as solutions in FinTech, complex reporting and management dashboards built on top of big data clusters, modelling of business processes in a form of smart web and mobile solutions all with an end goal of elevating the level of business by saving time and resources through smooth digital transformation. They offer consultancy and outsource development services in relation to Web development, mobile apps, RDBMS design, GIS data management, Business Cases & Cost Benefit Analysis, Training etc.

More information:

<https://ins.com.mk/>

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## SDEWES Centre

SDEWES Centre (SDEWES-Skopje, North Macedonia) gathers professionals and scientists from broad range of disciplines of sustainable development of energy, water and environment systems, in order to provide scientific support for wise policy-making in Climate Change (GHG emissions inventories and projections, mitigation, reduction/limitation targets), Energy (planning, policies, targets), Sustainable development ( planning, cross-cutting, metrics and indices, potentials, models, costs and benefits), Low Emission Development Strategies (LEDS) and Green economy and better governance.

More information:

[https://www.sdewes.org/macedonian\\_section.php](https://www.sdewes.org/macedonian_section.php)

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## ALFAZET-M

ALFAZET-M is a company dealing with development and implementation of Energy Management Systems (EnMS). Such systems contribute to reduction of electricity consumption, especially in the industrial sector. Besides development of EnMS, the partner companies provide consultancy in performing energy audits, propose solutions, reactive energy compensation, power quality and implementation of the ISO50001 standard.

More information:

<https://alfazetm.mk/>

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## PikCell Group

PIKCELL Group was founded in 2018 in Skopje, Republic of Macedonia and is a high technology company that focuses on the development and production of monocrystalline and polycrystalline photovoltaic solar modules and photovoltaic thermal modules. The first company of this type is open in Macedonia and in the region that covers an area of 4000m<sup>2</sup> with an annual production capacity of 250MW (megawatts) of monocrystalline and polycrystalline solar modules.

The goal of PIKSEL GROUP is to accelerate the acceptance of solar technology as a prerequisite for preserving the natural environment and to enable sustainable, efficient and environmental supply of electricity generated from sunlight.

We are focused on encouraging sustainable economic development through continuous research, investment and production of solar photovoltaic modules and photovoltaic thermal modules, we believe in the safe future of growing production of electricity from renewable sources, while at the same time we provide our customers with products that will contribute to a sustainable, economical and profitable supply of electricity.

Our clients, business partners and employees are our top priority and without any exceptions we value trust, respect and integrity. The quality of our products, environmental protection, expertise and innovation are the key values that we are guided by in our day-to-day operations.

More information:

<https://www.pikcellgroup.mk/en/about-pikcell-group/>

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