



RESEARCH GROUPS CATALOGUE

DEPARTMENT OF ELECTRONICS
AND COMPUTING

Split, 2026

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GROUP FOR PHOTOVOLTAIC SYSTEMS AND TECHNOLOGIES (PVST)

Head of the Group:
Prof. Tihomir Betti, PhD

<https://www.croris.hr/osobe/profil/2333?lang=en>

Scientific Field:
Engineering Sciences / Electrical Engineering

Brief Description of the Research Group

The research group focuses on the development, characterization, and application of photovoltaic (PV) technologies and systems. Its activities include research on solar cells, photovoltaic modules, and systems, encompassing experimental testing, performance evaluation, and modelling.

A particular emphasis is placed on the study of losses and degradation mechanisms affecting the efficiency and reliability of PV energy conversion, including the effects of soiling, shading, temperature, the solar irradiance spectrum, and other environmental factors. The group conducts long-term monitoring of PV systems under real operating conditions and develops methods for energy yield assessment, degradation analysis, and performance optimization. The research interests also include new application areas of photovoltaic technologies, including their integration into buildings and vehicles, as well as deployment on agricultural land and water surfaces.

In addition to its research activities, the group develops customized electronic measurement and monitoring systems and actively participates in research, development, and innovation projects in collaboration with academic and industrial partners.

1. RESEARCH TEAM

Faculty members in teaching and research positions:

- Prof. Ivan Marasović, PhD
- Prof. Joško Šoda, PhD

Other faculty researchers:

- Tea Erceg, MEng in Electrical Engineering
- Antonio Vuletić, MEng in Electrical Engineering
- Spomenka Bovan, MSc, Senior Lecturer

2. EXPERTISE AND KNOW-HOW

- Characterization and testing of solar cells, photovoltaic modules, and PV systems
- Long-term monitoring and performance analysis of photovoltaic systems under real operating conditions
- Analysis and quantification of losses in photovoltaic systems (soiling, shading, temperature effects, and other environmental influences)

- Identification and analysis of degradation mechanisms in photovoltaic modules and systems
- Energy production assessment and energy yield analysis
- Modelling, simulation, and optimization of photovoltaic system performance
- Design and sizing of photovoltaic systems for various applications
- Performance analysis, diagnostics, and condition monitoring of photovoltaic power plants
- Development of customized electronic measurement and monitoring systems for research and industrial applications
- Solar radiation measurement and modelling (spectral analysis and solar radiation components)

3. RESEARCH INFRASTRUCTURE

Laboratories

- Photovoltaic Systems Laboratory
- Micro- and Nanoelectronics Laboratory
- Electronic and Control Systems Laboratory
- Teaching Laboratory

Equipment

- Photovoltaic systems (PV modules based on different technologies, grid-connected and off-grid inverters, and related equipment)
- EKO MP-11 Portable I-V Curve Tracer
- Solar radiation measurement equipment: EKO MS-711 Spectroradiometer; EKO MS-80, Kipp & Zonen CM11, CM6B, and SpLite Pyranometers
- PVmet-500-M4 Meteorological Station
- Keithley 2412A SourceMeter Unit (SMU)
- National Instruments RMX-4005/RMX-4006 Programmable Electronic Load
- Campbell Scientific CR1000Xe Data Logger
- Solmetric SunEye 210 Shading Analysis Tool
- Six Siemens S7-1200 PLC Training and Development Kits

4. KEY PROJECTS AND REFERENCES

- Strategic Partnership for Green Energy – OptiNERG
- A System for Establishing a Stable Power Distribution Network – GridS
- Performance and Reliability of Photovoltaic Systems – Evaluations of Large-Scale Monitoring Data, COST Action PEARL PV (CA16235), 2017–2022

5. COLLABORATION OPPORTUNITIES

The group welcomes collaboration with industrial and research partners in the field of photovoltaic (PV) technologies and systems. The group's activities include experimental testing and characterization of solar cells, PV modules, and PV systems, analysis of their

performance under real operating conditions, and investigation of losses, degradation mechanisms, and failures affecting system operation and reliability.

Possible areas of cooperation include PV system design, modelling, and optimization, performance analysis and energy yield assessment, diagnostics of existing installations, and development of monitoring and maintenance methods. Research topics for collaboration include novel PV materials and solar cell architectures, as well as new applications and integration concepts of PV technologies, such as agrivoltaic and floating PV systems.

The group is also open to collaboration on the development of customized electronic measurement and monitoring solutions for both research and industrial applications.

Possible forms of collaboration include joint research and development projects, consultancy studies and expert assessments, development and validation of new technologies, demonstration projects, and participation in national and international funding programmes.

6. CONTACT

Head of Research Group: Tihomir.Betti@fesb.hr

General Contact: projekti@fesb.hr

GROUP FOR COMPUTER VISION, INTELLIGENT SYSTEMS AND BIOSIGNALS (CVISBIS)

Head of the Group:

Mirjana Bonković

<https://www.croris.hr/osobe/profil/8584?lang=en>

Scientific Field:

Signal Processing / Electrical Engineering and Computer Science

Brief Description of the Research Group:

The research group is active in the fields of artificial intelligence, computer vision, biosignal processing, and the development of intelligent sensor systems. Its research focuses on advanced machine learning and deep learning methods for the analysis of image, video, and biosignal data, with applications in healthcare, robotics, agriculture, industry, maritime transport, and smart environments.

The group develops intelligent sensing and cyber-physical systems that integrate computer vision, Internet of Things (IoT) technologies, embedded systems, and advanced data analytics. Particular emphasis is placed on developing algorithms for edge devices, autonomous robotic platforms, and real-time decision-making systems.

Research activities include biosignal analysis, health assessment and rehabilitation monitoring, intelligent visual control systems, precision agriculture, 3D modelling and scene reconstruction, development of advanced Bayesian frameworks for risk analysis and surveillance system optimization, computer vision and sensor fusion for maritime applications, integration of augmented and virtual reality (AR/VR) into industrial processes, application of intelligent machine learning algorithms for behavioural prediction and interaction modelling in socio-technical systems, and the application of large language models (LLMs), vision-language models (VLMs), and generative artificial intelligence in intelligent information systems.

The group actively participates in national and international research projects and collaborates with academic institutions and industrial partners in developing innovative AI-based technologies.

1. RESEARCH TEAM

Faculty members in teaching and research positions:

- Mirjana Bonković
- Mojmil Cecić
- Tamara Grujić
- Ana Kuzmanić Skelin
- Ivo Stančić

2. EXPERTISE AND KNOW-HOW

- Computer vision and image/video data analysis
- Machine learning and deep learning for classification, detection, segmentation, and prediction
- Development of intelligent sensing and measurement systems
- Biosignal processing and analysis and digital health technologies
- Wearable sensors and systems for monitoring physiological and rehabilitation parameters
- Multi-sensor data fusion and Internet of Things (IoT) systems
- Edge AI and deployment of AI algorithms on embedded platforms
- Autonomous robotic systems and vision-based control
- Precision agriculture and computer vision applications in agri-tech
- Analysis of imbalanced and heterogeneous datasets
- 3D modelling, reconstruction, and visualization
- Generative artificial intelligence, Large Language Models (LLMs), Vision-Language Models (VLMs), and intelligent agents
- Optoelectronic sensors and advanced data acquisition systems

3. RESEARCH INFRASTRUCTURE

Laboratories

- Laboratory for Modelling and Vision-Based Control
- Laboratory for Sensor and IoT Systems

4. KEY PROJECTS AND REFERENCES

- Integrated, Secure and Green Digital Platform for Continuous QA, Multi-channel Campaign Monitoring and AI Analytics in Digital Marketing – Marketing Operating System (mOS), IRI S3 Project, European Regional Development Fund (Project Leader: Kuzmanić)
- Establishment of the Regional Competence Centre for Electrical Engineering and Computer Science in Split-Dalmatia County, EU Project under the Operational Programme Effective Human Resources (Kuzmanić – Team Member)
- Competence Centre for Advanced Mobility – Development of an Innovative Ship Outfitting Process Using Augmented Reality (IRA 10), EU Project under the Operational Programme Competitiveness and Cohesion (Bonković and Kuzmanić – Project Leaders)
- Virtual CulTourist – Development of a User Interface for the Virtual Presentation of Cultural Heritage through the Integration of Innovative 3D Technologies, Split-Dalmatia County Innovation Programme (Kuzmanić and Bonković – Project Leaders)
- Advanced 3D Virtualization Methods – Towards Virtual Tourism and the Digitalization of Split's Cultural Heritage, Split-Dalmatia County Innovation Programme (Kuzmanić and Bonković)
- Croatian Science Foundation (HRZZ): Computer Vision for Olive Fruit Detection and Yield Estimation (CoViO) (Bonković – Team Member)
- SeaMate – AI-, LLM-, and IoT-Based Virtual Agent for Smart Nautical Management (Stančić – Team Member)

- National Competence Centres within the EuroHPC Framework – Phase 2 (Stančić – Coordinator)
- Development of Lightweight Polymer Vehicle Body Components for Improved Energy Efficiency (Stančić – Team Member)
- Croatian Science Foundation (HRZZ): Artificial Intelligence for Medical Devices (Stančić – Team Member)

5. COLLABORATION OPPORTUNITIES

The research group welcomes collaboration with industry, public sector organizations, and research institutions in the development of solutions based on artificial intelligence, computer vision, and intelligent sensor systems.

Areas of particular interest include:

- Process automation and industrial analytics
- Digital health and medical technologies
- Wearable sensing and user monitoring systems
- Precision agriculture and smart natural resource management
- Autonomous robotic and unmanned systems
- Big data processing and analytics
- Edge AI and IoT solutions
- Applications of generative artificial intelligence and large language models
- Development of technology prototypes and demonstrators
- Predictive modelling and risk assessment under uncertainty
- Evaluation and classification of large-scale datasets
- Multi-source sensor stream analysis
- Advanced 3D digitization and Digital Twins

The group provides support throughout the entire innovation cycle—from fundamental research and concept development to implementation, validation, and technology transfer to industry and end users.

6. CONTACT

Head of Research Group: mirjana.bonkovic@fesb.hr

General Contact: projekti@fesb.hr

GROUP FOR EDGE COMPUTING, IoT AND HIGH-PERFORMANCE COMPUTING

Head of the Group:

Prof. Sven Gotovac, PhD

<https://www.croris.hr/osobe/profil/16531?lang=en>

Scientific Field:

Technical Sciences / Electrical Engineering and Technical Sciences / Computer Science

Brief Description of the Research Group:

The research group specializes in the processing and analysis of data collected by remote sensors, unmanned aerial vehicles, and satellites, as well as their integration into GIS systems for risk modeling and assessment using high-performance computing. The group develops IoT sensors and communication systems based on LoRaWAN technology to support emergency services, as well as mobile sensor platforms equipped with RGB, thermal, and other sensors for edge data processing. In addition, the group focuses on the optimization and acceleration of computing applications using advanced hardware accelerators and graphics processing units (GPUs).

1. RESEARCH TEAM

Faculty members in teaching and research positions:

- Prof. Linda Vicković, PhD
- Prof. Stipo Čelar, PhD
- Assoc. Prof. Vladimir Pleština, PhD
- Assist. Prof. Dunja Božić-Štulić, PhD

Other faculty researchers:

- Ante Ivanović, MSc in Agricultural Engineering

2. EXPERTISE AND KNOW-HOW

- Processing of images from remote sensors (RGB, multispectral, LiDAR), unmanned aerial vehicles, and satellites; mapping onto GIS platforms; and development of various risk assessment models using HPC infrastructure.
- Development of IoT sensors and implementation of LoRaWAN systems with supporting software for monitoring emergency service personnel in the field.
- Development of mobile sensor systems based on RGB and thermal cameras and other sensors, with edge data processing using various technologies, including NVIDIA Jetson, Qualcomm RB5, and Qualcomm Snapdragon 865.
- Acceleration of applications at CERN using various hardware accelerators, primarily AMD graphics processing units (GPUs).

3. RESEARCH INFRASTRUCTURE

Laboratories

- B523 – Laboratory for computer architecture and operating systems

Equipment

- DJI Matrice 350 RTK H30T unmanned aerial vehicle

- P1 and L1 sensors with DJI Terra software

Advanced Computing Resources

- Server equipped with four graphics cards for training complex computer vision (CV) models
- Server equipped with an RTX 5090 graphics card
- Two servers equipped with A4000 and A2000 graphics cards
- Video wall consisting of six 55-inch LG 55VSM5J-H displays connected in a “Daisy Chain” configuration, with custom-developed software for content display

4. KEY PROJECTS AND REFERENCES

- Interreg HR-BA-ME: Establishing a Regional Innovation and Technology Transfer Ecosystem – ERIT
- Interreg HR-BA-ME: SmartProtect – Advanced Technologies for the Management of Natural and Human-Induced Disasters
- HORIZON: DARE – Deployment And Engagement of Resources and Citizens for European Emergency Response
- HRZZ IP-2024-05 CoViO: Computer Vision for Fruit Detection and Yield Assessment in Olive Production
- SPIN – Tehnet Smart Control: Development of an Intelligent Mobile System for Infrastructure Management and Monitoring
- CERN ALICE Computing

5. COLLABORATION OPPORTUNITIES

The research group is open to collaboration in the development of comprehensive systems for the acquisition, processing, analysis, and presentation of spatial and sensor data, tailored to the specific needs of end users.

Specific areas of collaboration include:

- Remote sensing and data acquisition using unmanned aerial vehicles (UAVs), satellite systems, RGB, thermal, multispectral, and LiDAR sensors, as well as distributed IoT sensor networks.
- Integration of heterogeneous data sources, including UAV, satellite, IoT, meteorological, and other spatial data.
- Online edge data processing (edge computing) for applications requiring data processing and decision-making in real or near-real time.
- Offline processing and analysis of large volumes of data using HPC infrastructure, graphics processing units (GPUs), computer vision, artificial intelligence, and advanced data processing algorithms.
- GIS integration, spatial analysis, modeling, and risk assessment based on collected and processed data.
- Development of user-oriented systems for visualization and presentation of results, including web, desktop, GIS, and video wall solutions.

Collaboration is possible with research institutions, public services, and industry, ranging from the development of demonstrators and pilot systems to the implementation of operational solutions.

6. CONTACT

Head of Research Group: Sven.Gotovac@fesb.hr

General Contact: projekti@fesb.hr

GROUP FOR DIGITAL SYSTEMS AND COMPUTER NETWORKS

Head of the Group:

Assoc. Prof. Ante Kristić, PhD

<https://www.croris.hr/osobe/profil/27609?lang=en>

Scientific Field:

Engineering / Electrical Engineering

Engineering / Computer Science

Brief Description of the Research Group:

The research group focuses on computer networks, wireless communications, digital system design, and data analysis. Its expertise includes the design of digital circuits implemented on programmable logic devices and application-specific integrated circuits (FPGA and ASIC), the development of real-time data processing systems, and the design of flow control and Quality of Service (QoS) algorithms for packet-switched networks. The group also applies machine learning methods for the analysis of complex datasets and contributes to the development of advanced detector systems for high-energy physics experiments, including the CMS High-Granularity Calorimeter (HGCAL).

1. RESEARCH TEAM

Faculty members in teaching and research positions:

- Assoc. Prof. Dujčeko, PhD
- Assoc. Prof. Ante Kristić, PhD
- Assist. Prof. Vesna Pekić, PhD
- Assist. Prof. Marina Prvan, PhD

Other faculty researchers:

- Sebastian Karl Mladen Haupt, MEng (Electrical Engineering)

2. EXPERTISE AND KNOW-HOW

- Digital logic design using programmable logic architectures (FPGA)
- Application-Specific Integrated Circuit (ASIC) design
- Machine learning-based data analysis
- Real-time data processing
- Flow control in packet-switched computer networks
- Quality of Service (QoS)
- MAC protocols for wireless communication networks
- CMS High-Granularity Calorimeter (HGCAL) upgrade

3. RESEARCH INFRASTRUCTURE

The research group has access to a wide range of programmable logic development platforms. These include educational Spartan Starter Kit boards, Nexys Video FPGA boards, adaptive System-on-Module platforms such as the Kria KV260, hybrid systems combining conventional

processors with programmable logic (PYNQ-Z1), and advanced FPGA platforms for instrumentation software development based on the Virtex UltraScale+ VCU118 device. In addition, the group operates a laboratory equipped with ten personal computers and holds licenses for professional software tools required for digital system design and implementation, including the Cadence ASIC design suite with TSMC technology libraries and the AMD/Xilinx Vivado Design Suite.

Laboratories

- B419, FESB

Equipment

- AMD Virtex™ UltraScale+™ FPGA VCU118 Evaluation Kit
- Nexys Video AMD Artix™-7 FPGA Board
- AMD Kria KV260 Vision AI Starter Kit
- PYNQ-Z1 Development Board
- Spartan-3E Starter Kit
- Cadence ASIC Design Suite
- AMD Vivado Design Suite

4. KEY PROJECTS AND REFERENCES

Members of the research group have participated as researchers or principal investigators in the following projects:

- CMS High-Granularity Calorimeter Upgrade (CMS-HGCAL)
- Beyond the Edge: FPGA- and AI-Based Systems for Time-Critical Applications
- DATACROSS – Advanced Methods and Technologies in Data Science and Cooperative Systems
- Control Systems for Photovoltaic Power Plants (SURFER)
- Internet of Things: Research and Applications

Four members of the research group have received the University of Split Recognition Award for their contribution to the University's development and international visibility.

The head of the research group is the inventor of the first patent granted by the United States Patent and Trademark Office (USPTO) with the University of Split and FESB as assignees: Devices Using Self-Adapting Medium Access Control Protocol (US Patent No. 10,165,597 B2).

5. COLLABORATION OPPORTUNITIES

Based on the expertise of its members, the research group welcomes collaboration with academic researchers and industry partners in the following areas:

- Real-time data processing
- Development of hardware and algorithms for real-time data processing
- Machine learning-based data processing algorithms
- Big data processing and analytics
- Design and evaluation of communication protocols

6. CONTACT

Head of Research Group: Ante.Kristic@fesb.hr

General Contact: projekti@fesb.hr

GROUP FOR ADVANCED NETWORK TECHNOLOGIES AND SYSTEMS (NMTS)

Head of the Group:

Prof. Josip Lörincz , PhD

<https://www.croris.hr/osobe/profil/156?lang=en>

Scientific Field:

Engineering Sciences / Electrical Engineering / Computer Science

Brief Description of the Research Group:

The research group focuses on the analysis and development of advanced Information and Communication Technologies (ICT), with particular emphasis on networking, wireless and optical systems, sensor networks, Internet of Things (IoT) technologies, and mobile and satellite communications. The group's expertise encompasses information and signal processing in telecommunications, energy-efficient ICT systems and networks, machine learning applications, network and system security, as well as the development of communication software and network-based services. Research activities cover energy-efficient ICT infrastructures, secure communication systems, positioning and synchronization in communication networks, wireless sensor and IoT networks, data transmission and processing systems, and emerging paradigms such as cognitive networking, software-defined networking (SDN), network function virtualization (NFV), cloud computing for data centres, and virtual reality systems.

1. RESEARCH TEAM

Faculty members in teaching and research positions:

- Prof. Dinko Begušić, PhD
- Prof. Mario Čagalj, PhD
- Prof. Josip Lörincz, PhD

Other faculty researchers:

- Katarina Radoš, PhD
- Mislav Kovač, MSc in Engineering

2. EXPERTISE AND KNOW-HOW

- ICT networking technologies
- Wireless networks
- Optical networks
- Internet of Things (IoT)
- Mobile Internet
- Information processing
- Digital signal processing
- Machine learning methods
- Network and system security
- Communication software

- Energy-efficient ICT technologies and systems
- Positioning in wireless networks
- Wireless sensor networks
- Synchronization in communication networks
- Development of network-based services
- Quality of Service (QoS) in communication networks
- Virtual reality systems
- Cognitive networks
- Software-defined networking (SDN)
- Network function virtualization (NFV)
- Cloud computing
- Satellite communication systems and GNSS technologies
- Energy certification of networks, systems, and buildings

3. RESEARCH INFRASTRUCTURE

Laboratories

- Advanced Network Technologies Laboratory
- Network and System Security Laboratory
- Digital Signal Processing Laboratory

Equipment

- Optical Time-Domain Reflectometer (EXFO OTDR Platform FTB-200/FTB-500 with OTDR modules)
- Digital oscilloscope up to 2.5 GHz (Tektronix DPO 7254)
- Vector signal generator (Agilent EXG N5172B series)
- USRP N310 Software-Defined Radio (SDR) platform
- Communication equipment (routers, switches, access points, WLAN controllers)
- LoRa sensor devices and LoRa gateways
- Uninterruptible Power Supply (UPS) systems

Advanced Computing Resources

- Data server infrastructure

4. KEY PROJECTS AND REFERENCES

- Detection of Jamming and Spoofing in Global Navigation Satellite Systems (GNSS) (Ericsson Nikola Tesla d.o.o.)
- Data-Driven Artificial Intelligence Models for Energy-Efficient 5G Radio Resource Allocation – 5gENERGYOPT (Ericsson Nikola Tesla d.o.o.)
- Data Reliability in IoT Sensor Networks – DR_IoT-SN (Ericsson Nikola Tesla d.o.o.)
- Establish Pan-European Information Space to Enhance Security of Citizens (EPISECC) (EU FP7)
- Green Networking (Croatian Science Foundation – HRZZ)

5. COLLABORATION OPPORTUNITIES

The group is interested in collaborating on research, development, consultancy studies, technical analyses, expert assessments, and feasibility studies in the areas of telecommunications, cybersecurity, communication systems, wired and wireless local, access, and core networks, energy-efficient ICT systems and networks, sensor and IoT networks, data

centres, software architectures and solutions, as well as energy certification and auditing. The group welcomes collaboration with ICT companies and software developers, public authorities, municipalities, counties, government agencies, ministries, institutes, universities, faculties, and research organisations. Cooperation can be established through local, regional, national, and international educational, professional, and research projects, including projects funded through major European programmes such as:

- Horizon Europe (European Research Council – ERC, Marie Skłodowska-Curie Actions – MSCA, European Innovation Council – EIC, Digital Europe Programme, COST, Research Infrastructures, Joint Research Centre – JRC, European Innovation Ecosystems – EIE, European Institute of Innovation and Technology – EIT, EU Missions, European Partnerships, Widening Participation)
- European Regional Development Fund (ERDF), Cohesion Fund (CF), Just Transition Fund (JTF)
- Climate, Energy and Environment (LIFE Programme, Innovation Fund, Connecting Europe Facility (CEF))
- Education (Erasmus+)
- Health, Agriculture and Maritime Sectors (EU4Health, European Agricultural Fund for Rural Development (EAFRD), European Agricultural Guarantee Fund (EAGF), European Maritime, Fisheries and Aquaculture Fund (EMFAF)
- Security and Defence (European Defence Fund (EDF), Internal Security Fund (ISF))

6. CONTACT

Head of Research Group: Josip.Lorincz@fesb.hr

General Contact: projekti@fesb.hr

GROUP FOR COMPUTATIONAL INTELLIGENCE FOR HUMAN ACTIVITY RECOGNITION AND ASSISTANCE (RIPrePAkt)

Head of the Group:
Prof. Vladan Papić, PhD

<https://www.croris.hr/osobe/profil/4493?lang=en>

Scientific Fields:
Engineering Sciences / Electrical Engineering
Engineering Sciences / Computer Science

Brief Description of the Research Group:

The research group focuses on the development of intelligent systems that integrate robotics, machine learning, and advanced control methods. Its expertise includes object detection and tracking, human-machine interaction, and the control and optimization of complex systems. The group also investigates biomechanical processes and their application in the development of innovative technologies. In addition, it develops solutions in the fields of virtual and augmented reality aimed at enhancing user experience, supporting data analysis, and improving decision-making processes.

1. RESEARCH TEAM

Faculty members in teaching and research positions:

- Prof. Josip Musić, PhD
- Assoc. Prof. Tea Marasović, PhD
- Assist. Prof. Stanko Kružić, PhD

Other faculty researchers:

- Toma Sikora, Research Assistant
- Ana Šarić Gudelj, Research Assistant

2. EXPERTISE AND KNOW-HOW

- Object detection and tracking
- Robotics
- Human-machine interaction
- Control systems and optimization
- Machine learning
- Biomechanics
- Remote sensing and IoT applications in agriculture

3. RESEARCH INFRASTRUCTURE

Laboratories

- Biomechanics, Automation and Systems Laboratory
- Expert Systems, Machine Learning and Image Processing Laboratory

Equipment

- Various biomechanical measurement systems, including force platforms, EMG systems, and Xsens inertial sensors, Image acquisition equipment, including camcorders, 3D cameras, and high-speed cameras
- Signal acquisition devices such as Microsoft HoloLens 2, sensor gloves, accelerometers, and Kinect systems
- Unmanned aerial vehicles (UAVs) equipped with RGB, multispectral, and thermal cameras
- Mobile robotic platforms (BlueROV2, Leo Rover, Mover6, M5ver 5)
- Educational and research robotics kits (Arduino, LEGO Mindstorms NXT, TurtleBot)

4. KEY PROJECTS AND REFERENCES

- HRZZ IP-2024-05-6393 – Computer Vision for Olive Fruit Detection and Yield Estimation (CoViO), Principal Investigator: V. Papić
- HR-BA-ME00392 – Advanced Technologies for Natural and Human-Induced Disaster Management (SmartProtect), Interreg Project
- HR-BA-ME00522 – Establishing a Regional Innovation and Technology Transfer Ecosystem (ERIT), Interreg Project, Principal Investigator: V. Papić
- IP-UNIST-10 – AI-Driven Solutions for Field Exploration and Disaster Response: Autonomous Drones, Robotics and Human Well-Being (UITOK), Institutional Research Project, Principal Investigator: V. Papić
- Tehnet Smart Control – Development of an Intelligent Mobile System for Infrastructure Management and Monitoring, SPIN Project

5. COLLABORATION OPPORTUNITIES

The research group welcomes collaboration in professional and scientific research projects related to the areas listed under its expertise and know-how. Particular interest is directed toward the application of robotics in Industry 5.0, the use of artificial intelligence for processing and analysing diverse types of data, and the development of digital agriculture applications and solutions.

6. CONTACT

Head of Research Group: Vladan.Papic@fesb.hr

General Contact: projekti@fesb.hr

GROUP FOR SMART IoT TECHNOLOGIES AND INTELLIGENT SYSTEMS (PIoTIS)

Head of the Group:

Prof. Toni Perković, PhD

<https://www.croris.hr/osobe/profil/27583?lang=en>

Scientific Field:

Engineering Sciences / Electrical Engineering and Computing (including Signal Processing and Computer Vision)

Brief Description of the Research Group:

The research group brings together expertise in smart IoT environments, digital health, and computer vision/artificial intelligence. It develops innovative solutions integrating the Internet of Things, wireless and networking technologies, signal processing, machine learning, deep learning, and computer vision, with applications in smart cities, Industry 4.0, eHealth, and intelligent sensor systems. The group collaborates on national and EU-funded research projects (Croatian Science Foundation – HRZZ, IRI, EuroHPC), develops prototypes for industrial and public-sector partners, and combines expertise in networking technologies, cybersecurity, biosignal processing, high-performance computing, and Edge AI into a multidisciplinary research environment.

1. RESEARCH TEAM

Faculty members in teaching and research positions:

- Prof. Toni Perković, PhD
- Prof. Petar Šolić, PhD
- Assoc. Prof. Ivo Stančić, PhD
- Prof. Maja Štula, PhD
- Prof. Joško Radić, PhD

Other faculty researchers:

- Josip Šabić
- Marija Zorić
- Marijan Šimundić-Bendić
- Marijana Čular
- Luka Kranjac
- Ana Terzić
- Anamarija Mamić
- Ivan Čaleta

2. EXPERTISE AND KNOW-HOW

- Networking Technologies
- Wireless Networks
- Internet of Things (IoT)

- Machine Learning
- Mobile Internet
- Signal Processing
- Network and System Security
- Computer Forensics
- Wireless Sensor Networks
- Communication Systems
- Data Analytics
- Deep Learning
- Cloud Computing
- High-Performance Computing (HPC)
- Bioinformatics
- eHealth
- Software Development
- Computer Vision
- Edge AI and Embedded Systems
- Autonomous Robotic Systems

3. RESEARCH INFRASTRUCTURE

Laboratories

- RFID Technology Laboratory
- IoT Laboratory
- Sensor IoT Systems Laboratory

Equipment

- HF and UHF RFID readers
- HF and UHF signal generators
- Spectrum analyzer and Software-Defined Radio (SDR) systems
- Digital oscilloscope
- Arduino-based sensor systems
- LPWAN-based systems (LoRaWAN, NB-IoT, Sigfox)
- 3D printing equipment and printed circuit board (PCB) fabrication system
- NVIDIA T1000 GPU for developing deep learning models using diverse data sources
- NVIDIA Quadro RTX A5000 (24 GB)
- EEG device
- Indoor air quality sensors

Advanced Computing Resources

- The group participates in the National Competence Centre for HPC/AI within the EuroCC2 (EuroHPC) project, providing access to advanced high-performance computing and AI infrastructure.

4. KEY PROJECTS AND REFERENCES

- SeaMate – AI-, LLM-, and IoT analytics-based virtual assistant for smart nautical management

- Verification of Information Accuracy in the Fields of Energy and Computing
- Digitalisation of the Civil Protection Plan through an IoT-Based Decision Support Platform
- National Competence Centres in the Framework of EuroHPC Phase 2
- SmartRideAI – Intelligent Systems for Safe and Sustainable Mobility

5. COLLABORATION OPPORTUNITIES

The group is open to collaboration with industry, the public sector, and research institutions in the development of solutions based on IoT technologies, artificial intelligence, and computer vision. Areas of particular interest include smart cities and smart buildings; digital health and wearable sensor systems; Industry 4.0 and the automation of manufacturing processes; cybersecurity and computer forensics; Edge AI and the deployment of algorithms on embedded and autonomous systems; high-performance computing (HPC) and access to HPC/AI infrastructure; as well as prototype development and digital transformation for industrial and public-sector partners. The group provides support throughout the entire innovation process—from research and concept development to implementation, validation, and technology transfer to end users.

6. CONTACT

Head of Research Group: Toni.Perkovic@fesb.hr

General Contact: projekti@fesb.hr

GROUP FOR ELECTROMAGNETIC COMPATIBILITY AND NUMERICAL METHODS IN ELECTRONICS (MULTIMOD)

Head of the Group:

Prof. Dragan Poljak, PhD

<https://www.croris.hr/osobe/profil/9780?lang=en>

Scientific Fields:

Engineering Sciences – Electrical Engineering

Brief Description of the Research Group:

The research activities of the MULTIMOD group focus on advanced numerical modelling and experimental methods for the analysis of complex multiphysics engineering problems. The group develops theoretical formulations together with analytical and numerical solution methods in several interdisciplinary research areas, including bioelectromagnetics, electromagnetic-thermal dosimetry (with a particular emphasis on 5G systems), biomedical applications of electromagnetic fields, ground-penetrating radar, plasma physics, fusion technologies, space technologies, accelerator systems, wireless power transfer, electromagnetic compatibility, and stochastic processes in advanced communication networks.

1. RESEARCH TEAM

Faculty members in teaching and research positions:

- Prof. Zoran Blažević, PhD
- Prof. Silvestar Šesnić, PhD
- Prof. Tonko Garma, PhD
- Assoc. Prof. Dr. Vicko Dorić
- Assoc. Prof. Dr. Mario Cvetković
- Assoc. Prof. Dr. Maja Škiljo
- Assist. Prof. Dr. Antonio Šunjerga
- Assist. Prof. Dr. Anna Šušnjara Nejašmić

Other faculty researchers:

- Dr. Klementina Vidjak

2. EXPERTISE AND KNOW-HOW

- Electromagnetic field theory
- Numerical methods in engineering
- Deterministic and stochastic modelling of multiphysics problems
- Electromagnetic compatibility (EMC), antennas and propagation, grounding systems, and ground-penetrating radar
- Human exposure to electromagnetic radiation and electromagnetic-thermal dosimetry
- Biomedical applications of electromagnetic fields
- Plasma physics

- Thermonuclear fusion and tokamak plasma equilibrium
- Neutron beam analysis in accelerator systems
- Stochastic electromagnetics, uncertainty quantification, and sensitivity analysis

3. RESEARCH INFRASTRUCTURE

Laboratories

- **Radio Propagation Laboratory**
The laboratory conducts measurements of RF devices, antennas, and radio-wave propagation. It is equipped with computers, oscilloscopes, function generators, EMC probes, spectrum analyzers, signal generators, Tesla coils, a ground-penetrating radar prototype, and a variety of antenna systems.
- **Numerical Methods Laboratory**
The laboratory includes six workstations and a high-performance computing workstation equipped with a dedicated GPU for advanced numerical simulations.

Equipment

- Anritsu Spectrum Analyzer MS2711E, operating from 9 kHz to 3 GHz, with a dynamic range exceeding 85 dB (at 100 Hz RBW)
- Anritsu Vector Network Analyzer MS2026C, dual-port configuration, operating from 9 kHz to 6 GHz

4. KEY PROJECTS AND REFERENCES

- Human Exposure to Radiation from new Wireless Communication Technologies using Advanced Electromagnetic-Thermal Dosimetry Models (HERWICT) – Slovenian-Croatian Project (HRZZ)
- IFMIF DONES: WPENS AS (Accelerator Systems) - Sensitivity analysis of the uncertainty propagation in static and dynamic simulations of neutron flux within Test Cell, (EUROfusion)
- IFMIF DONES: WPENS PI (Project Integration) - EMI/EMC Analysis of Electric and Electronic Equipment in IFMIF-DONES, (EUROfusion)
- Simulation and Protective Design of Electromagnetic Radiation in Offshore Wind Power Based on Semi-Analytical Methods (Croatian-Chinese bilateral project)
- Research on Intelligent Operation and Maintenance Strategies for Wind Power Equipment with Low Electromagnetic and Noise Pollution (Croatian-Chinese bilateral project)

5. COLLABORATION OPPORTUNITIES

- Multidisciplinary research in multiphysics, plasma physics, and environmental physics
- Integration of conventional deterministic-stochastic computational models with artificial intelligence (AI), digital twins, machine learning (ML), and physics-

informed neural networks (PINNs), including the development of efficient surrogate models

- Multidisciplinary research in bioelectromagnetics, environmental protection from unwanted electromagnetic exposure, and the development of biomedical devices such as biosensors, transcranial magnetic stimulation (TMS), transcranial electrical stimulation (TES), and neurostimulation systems (TENS and PENS)
- Assessment and measurement of non-ionizing radiation sources and their environmental impact, including applications in national and international standardization, development of specialized software, expert consulting, and optimization of service quality and safety aspects of 5G and 6G mobile communication systems
- Studies of electromagnetic compatibility, antenna systems, grounding systems, ground-penetrating radar, and cylindrical waveguides, with applications in air traffic management and maritime communication systems
- Analysis and optimization of wireless power transfer systems
- Measurement and environmental impact assessment of non-ionizing radiation sources
- Thermal performance assessment and heating analysis of power cables

6. CONTACT

Head of Research Group: dragan.poljak@fesb.hr

General Contact: projekti@fesb.hr

GROUP FOR ADVANCED TECHNOLOGIES IN SMART ENVIRONMENTS (NTPO)

Head of the Group:

Prof. Mladen Russo, PhD

<https://www.croris.hr/osobe/profil/2356?lang=en>

Scientific Field:

Engineering Sciences / Electrical Engineering and Computing

Brief Description of the Research Group:

The Research Group for Advanced Technologies for Smart Environments develops intelligent solutions based on artificial intelligence, machine learning, the Internet of Things (IoT), and modern communication technologies. Its core areas of expertise include virtual and augmented reality, telemedicine, wearable interfaces, computer vision, multimedia systems, wireless sensor networks, positioning technologies, and geographic information systems. The group conducts research focused on the development of smart environments for healthcare, industry, education, and smart cities, with a strong emphasis on innovation, digital transformation, and the transfer of knowledge into practical applications.

1. RESEARCH TEAM

Faculty members in teaching and research positions:

- Prof. Matko Šarić, PhD
- Prof. Marjan Sikora, PhD
- Prof. Maja Stella, PhD

Other faculty researchers:

- Luka Kraljević, PhD
- Jurica Đerek, PhD
- Davor Meter, MEng

2. EXPERTISE AND KNOW-HOW

- Machine Learning and Artificial Intelligence
- Virtual and Augmented Reality
- Telemedicine
- Wearable Interfaces and Emotion Recognition
- Communication and Information Technologies
- Multimedia Systems and Networks
- Object and Speech Recognition
- Wireless Sensor Networks
- Positioning in Wireless Networks
- Geographic Information Systems (GIS)
- Soundscapes and Auralization

3. RESEARCH INFRASTRUCTURE

Laboratories

- Smart Environment Technologies Research Laboratory
- Multimedia Systems and Virtual Reality Laboratory
- Electroacoustics Laboratory
- Communication and Information Systems Laboratory
- IP Technologies and Communication Protocols Laboratory
- Digital Television and Video Laboratory

Equipment

- Anechoic Chamber
- Microphones, Audio Amplifiers, USB Audio Interfaces, Active and Passive Loudspeakers
- Virtual and Augmented Reality Headsets
- Motion Tracking Sensor Glove
- 3D Monitor
- Skin Conductance, Electrocardiogram (ECG), and Motion Tracking Measurement Kit
- EEG Recording System
- 3D Printer
- Tetramic Spatial Microphones
- CAVE Virtual Reality System
- Spectrum Analyzer, Oscilloscope, and Signal Generators

4. KEY PROJECTS AND REFERENCES

- EXCEED – Capacity Building for Excellence in Digital Health Research (2025–present), DIGIT
- FIRELOC – Sound Event Recognition and Localization from Few-Shot Examples (2025–present), Ministry of Science, Education and Youth of Croatia (MSEY) and MOST China
- SENSE – EEG-Based Emotion Recognition System for Children with Autism Spectrum Disorder (2024–2025), National Recovery and Resilience Plan (NRRP)
- VITA – Virtual Telemedicine Assistance (2021–2023), EU Funds
- ELISE – Easy Living in Smart Environments (2015–2018), Croatian Science Foundation (HRZZ)

5. COLLABORATION OPPORTUNITIES

The research group welcomes collaboration with academic institutions, healthcare organizations, industry partners, and public-sector stakeholders in the development of smart and digital solutions. Particular interest is focused on the application of artificial intelligence, computer vision, virtual and augmented reality, telemedicine, and communication technologies in healthcare, education, industry, and smart cities.

The group has extensive experience in the development of prototypes, experimental systems, and multidisciplinary research projects. It is actively interested in joint national and international projects, technology transfer activities, the development of innovative products and services, and collaboration within Horizon Europe, Interreg, and other research and innovation programmes.

Potential forms of collaboration include joint research projects, development of demonstration and pilot solutions, expert consulting services, training and education activities, researcher exchange programmes, and access to laboratory infrastructure.

6. CONTACT

Head of Research Group: mrusso@fesb.hr

General Contact: projekti@fesb.hr

GROUP FOR APPLIED ELECTROMAGNETICS AND RF ELECTRONICS

Head of the Group:

Prof. Antonio Šarolić, PhD

<https://www.croris.hr/osobe/profil/4832?lang=en>

Scientific Field:

Engineering Sciences / Electrical Engineering

Brief Description of the Research Group:

The research group is active in the fields of applied electromagnetics and radio-frequency (RF) electronics. The group conducts research and teaches the courses (within FESB study programmes) in wireless communications, antennas, antenna systems and technologies, RF and microwave engineering, electronics and electronic circuits, electromagnetic measurements, and electromagnetic compatibility (EMC). The Department also possesses specialized expertise in maritime and military communication systems. The group's research and teaching activities are also strongly focused on the application of electromagnetics, electronics, and engineering in biomedicine. The Department covers research and education in bioelectromagnetics, medical devices, biomedical applications, and the biological effects of electromagnetic fields. The group has extensive experience in carrying out professional projects, as well as preparing technical studies, expert reports, and consultancy services for industry and other external stakeholders.

1. RESEARCH TEAM

Faculty members in teaching and research positions:

- Prof. Antonio Šarolić, PhD
- Prof. Ivan Marinović, PhD

Other faculty researchers

- Dominik Žanić, PhD, Senior Teaching and Research Assistant
- Viktoria Pavlovski, MEng in Electrical Engineering
- Matea Paradžik, MEng in Electrical Engineering

2. EXPERTISE AND KNOW-HOW

- Electromagnetic simulations and electromagnetic measurements
- Antenna design, fabrication, and simulation-based analysis
- Antenna parameter measurements and antenna calibration
- Design, development, and analysis of electronic, RF, and microwave components and circuits
- Electromagnetic compatibility (EMC) analysis
- Measurement of dielectric properties of materials, including biological tissues
- Electromagnetic field measurements and human EMF exposure assessment
- Medical device development in collaboration with biomedical and biological experts
- Research in bioelectromagnetics and electrical stimulation

3. RESEARCH INFRASTRUCTURE

Laboratories

- Department of Applied Electromagnetic Fields and RF Electronics Laboratories:
 - Laboratory for Electromagnetic Research and Testing (EMLAB)
 - Laboratory for Electronic Circuits and Applied Electronics

Equipment

- TESEQ GTEM 750 chamber for generating standardized electromagnetic fields
- Helmholtz coils for generating standardized magnetic fields
- Parallel-plate system for generating standardized electric fields
- Signal generators, oscilloscopes, analyzers, amplifiers, sensors, and antennas
- Keysight FieldFox N9927A Vector Network Analyzer
- Electromagnetic simulation software packages
- Measurement instruments and probes for dielectric characterization of biological tissues and other materials
- Measurement instruments and probes for electromagnetic field measurements
- PCB prototyping and planar structure fabrication equipment

4. KEY PROJECTS AND REFERENCES

Research Projects

- COST EMF-MED (Action BM1309): European Network for Innovative Uses of EMFs in Biomedical Applications (2014–2018); European project leader: Antonio Šarolić
- HRZZ EMF-Med: Electromagnetic Characterization of Biological Tissues and Cells for Medical and Biological Applications (2024–2027); Principal Investigator: Antonio Šarolić
- NAVIS MARINE Digital Platform (2025–2028); Head of the FESB research component: Antonio Šarolić
- Scientific Excellence for Societal Challenges: Intelligent Models and Interfaces for Safety and Health (ZIDI): Institutional research project; leader of the work package focused on the development of biomedical models for diagnostic devices: Antonio Šarolić
- Measurements in Bioelectromagnetics (M-BEM): Institutional research project; Principal Investigator: Antonio Šarolić

Professional Projects

- Studies on the impact of non-ionizing electromagnetic radiation at Croatian Navy (HRM) and Ministry of Defence (MORH) military sites
- Electromagnetic compatibility studies of wind farms with military and civil radar systems
- Consultancy for the development of an implantable electrical stimulation device (NUIG, Ireland)
- Consultancy for the development of an electromagnetic field measurement probe (WaveControl, Spain)
- Technical inspections of radio stations

5. COLLABORATION OPPORTUNITIES

The research group welcomes collaboration in the fields of electromagnetic simulations, measurements, and the development of RF, microwave, and antenna systems, as well as in addressing electromagnetic compatibility (EMC) challenges and assessing human exposure to electromagnetic fields. We are particularly interested in collaborating with academic institutions, industrial partners, and public-sector organizations on projects involving the design and testing of antennas, electronic and measurement systems, dielectric characterization of materials and biological tissues, and the development and validation of medical devices.

The group also provides support in the preparation of technical studies, expert reports, and professional analyses related to non-ionizing radiation, bioelectromagnetics, communication systems, and electromagnetic compatibility. Supported by well-equipped laboratory infrastructure and extensive experience in scientific research and industry-oriented projects, the group is well positioned to engage in collaborative research, development, consultancy, and educational activities.

6. CONTACT

Head of Research Group: antonio.sarolic@fesb.hr

General Contact: projekti@fesb.hr

GROUP FOR INTELLIGENT SYSTEMS

Head of the Group:

Prof. Ljiljana Šerić, PhD

<https://www.croris.hr/osobe/profil/12036?lang=en>

Scientific Field:

Technical Sciences / Computer Science

Brief Description of the Research Group:

The Intelligent Systems Research Group focuses on the development of advanced artificial intelligence, generative AI, and data analytics methods for solving complex real-world problems across a wide range of application domains. Its core expertise includes intelligent systems, machine learning and deep learning, large language models (LLMs) and generative AI with Retrieval-Augmented Generation (RAG) architectures, agent-based and multi-agent systems, real-time AI agent orchestration, computer vision, image processing and understanding, natural language processing, semantic technologies, operational research, and optimization. The group develops innovative AI-driven solutions for remote sensing applications, including optical and radar satellite image analysis, advanced GIS technologies, digital twins, environmental protection, and the management of complex systems. These solutions are applied in wildfire prevention and response, marine protection and the blue economy, tourism, healthcare, and intelligent document management. Research activities are supported by high-performance computing (HPC), cloud and edge computing technologies, and close collaboration with national and international research partners.

1. RESEARCH TEAM

Faculty members in teaching and research positions:

- Assist. Prof. Antonia Ivanda, PhD
- Assist. Prof. Maja Braović, PhD
- Assoc. Prof. Marin Bugarić, PhD
- Prof. Damir Krstinić, PhD

Other faculty researchers:

- Professor Emeritus Darko Stipaničev, PhD
- Antonia Bartulović, Master of Computing; mag. ing. com
- Nataša Vulević, Master of Computing; mag. ing. com
- Mateo Radić, Master of Computing; mag. ing. com

2. EXPERTISE AND KNOW-HOW

- Intelligent systems
- Machine learning and deep learning
- Semantic technologies
- Cognitive vision
- Advanced image processing, analysis, and understanding

- Advanced Internet technologies
- Cloud and edge computing
- Advanced GIS technologies
- Modelling and management of complex systems
- Application of ICT and intelligent technologies in environmental protection, particularly wildfire prevention and management
- Digital twins for simulation and risk management
- Artificial intelligence for remote sensing, including optical and Synthetic Aperture Radar (SAR) satellite image analysis, classification, change detection, and sensor fusion
- Natural language processing and large language models (LLMs)
- Agent-based and multi-agent systems, agentic AI
- Real-time orchestration and coordination of AI agents
- Generative AI and Retrieval-Augmented Generation (RAG)
- Development of domain-specific and multilingual AI platforms for small and medium-sized enterprises (SMEs)
- Personalisation and recommendation systems
- Operations research and optimisation, including the generation and evaluation of alternative Courses of Action (CoA) and real-time decision support

3. RESEARCH INFRASTRUCTURE

Laboratories

- CIPOP – Centre for Wildfire Research
- LaIS – Laboratory for Intelligent Systems and Artificial Perception
- LaADIA – Laboratory for Advanced Digital Image Analysis
- LaANLA – Laboratory for Advanced Natural Language Analysis

4. KEY PROJECTS AND REFERENCES

- COST Action – european Network on Extreme fiRe behaviOr (NERO)
- FirEURisk – Developing a holistic, risk-wise strategy for European wildfire Management
- FireDT – Wildfire Digital Twin: Operational Risk Assessment and Recommendation System for Split-Dalmatia County
- HospitalityInSky & HealthInSky - Research and development of two innovative AI platforms (IRI S3 Programme)
- Development of Innovative AI Agents for Intelligent Digital Document and Signature Management as an Upgrade to the Doctavian Cloud DMS Platform (IRI S3 Programme)

5. COLLABORATION OPPORTUNITIES

The group actively collaborates with academic institutions, public-sector organisations, and industry partners in the following areas:

- Digital Twins and Environmental Technologies – Simulation and risk management for wildfires and climate-related extreme events, GIS analytics and AI-based analysis of

optical and radar satellite imagery (e.g., Sentinel and NISAR missions), Marine protection and blue economy applications

- Generative and Agentic AI– Solutions based on large language models (LLMs) and RAG architectures, AI agents and orchestration frameworks for coordinating multiple agents in real time, Personalised and hybrid human–AI collaboration systems for tourism, healthcare, and document management
- Computer Vision and HPC/Edge Computing - Intelligent recognition, monitoring, and surveillance systems, Support for the adoption and utilisation of cloud, edge, and high-performance computing infrastructures
- Intelligent Decision Support - Generation, evaluation, and optimisation of operational plans (Courses of Action), Decision-support systems for emergency and crisis management

6. CONTACT

Head of Research Group: Ljiljana.Seric@fesb.hr

General Contact: projekti@fesb.hr