EIC/EIT

The European Innovation Council (EIC) / The European Institute of Innovation and Technology (EIT)

The European Innovation Council (EIC) has been established under the EU Horizon Europe programme. It has a budget of €10.1 billion to support game changing innovations throughout the lifecycle from early stage research, to proof of concept, technology transfer, and the financing and scale up of start-ups and SMEs.

The European Institute of Innovation and Technology (EIT) supports the development of dynamic, long-term European partnerships among leading companies, research labs and higher education. These partnerships are called EIT Knowledge and Innovation Communities and each is dedicated to finding solutions to a specific global challenge, from climate change and sustainable energy to healthy living and food.

Source: EIC & EIT

PhD, DSc
Anna Ujwary-Gil
LABORATORY OF PROCESS AND NETWORK ANALYSIS

INSTITUTE OF ECONOMICS, PAS
DIVISION I - HUMANITIES AND SOCIAL SCIENCES
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EXPERTISE

Our Laboratory is at the forefront of exploring how inter-organizational networks, digital innovation hubs, and ecosystems drive sustainability, digital transformation, and innovative business models in the digital era. We excel in utilizing advanced social network analysis techniques within the dynamic digital economy and sustainability landscape. Our research is dedicated to examining economic ecosystems such as industry clusters, innovation networks, and food cooperatives from network structure and relational perspectives.

SEEKING FOR COLLABORATION WITHIN

sustainability, digital transformation, digital innovation hubs, industry clusters, social network analysis

RELEVANT PROJECTS

REINVENT
REV4.0

Professor
Marek Figlerowicz
DEPARTMENT OF MOLECULAR AND SYSTEMS BIOLOGY

INSTITUTE OF BIOORGANIC CHEMISTRY, PAS
DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES
MAREKF@IBCH.POZNAN.PL
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EXPERTISE

Our group focuses on cell engineering, particularly for the purposes of regeneration and interceptive medicine. We study factors shaping cell identities and states in the context of epigenetic rejuvenation, direct cell reprogramming, and intercellular communication via short- and long-distance RNA transport.

We combine cutting-edge single-cell spatial multi-omics, micro-patterned cell cultures, organoid models, and machine learning to model cell tra-jectories and control cell fate and functions.

SEEKING FOR COLLABORATION WITHIN

aging, cardiology, AI,epigenetics, transdifferentiation, RNA, extracellular vesicles, CRISPR, APOBEC

RELEVANT PROJECTS

ECBiG-MOSAIC
NEBI
LifeTime

Assoc. Prof.
Adam Jurgoński
BIOLOGICAL FUNCTION OF FOOD TEAM

INLIFE INSTITUTE OF ANIMAL REPRODUCTION AND FOOD RESEARCH, PAS
DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES
A.JURGONSKI@PAN.OLSZTYN.PL
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EXPERTISE

Elucidating the physiological and molecular mechanisms through which both well-known and novel dietary components influence gut function and metabolic health. The team conducts controlled feeding experiments using animal models of disorders characteristic of diet-related diseases. The research to date has focused on: • phenolic extracts and fiber–phenolic preparations, • prebiotic preparations and food additives, • unconventional sources of unsaturated fatty acids, • trace minerals in nanoparticle form.

SEEKING FOR COLLABORATION WITHIN

preparation, chemical analysis, evaluation of the properties of novel food ingredients

RELEVANT PROJECTS

NCN/OPUS
NCN/OPUS
NCN/SONATA

PhD, Assistant Professor

Kevin Waldron

LABORATORY OF METALLOPROTEIN BIOLOGY

INSTITUTE OF BIOCHEMISTRY AND BIOPHYSICS, PAS

DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES

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EXPERTISE

My work sits at the interface between biochemistry/ /structural biology and computational chemistry. This makes our work highly suited to research in drug discovery. Furthermore, we characterize proteins at the level of protein family, rather than just single isozymes, making our work highly relevant to biotechnology. As such, we are keen to apply our academic studies in tandem with industrial and commercial partners, to help create technological solutions for real-world problems.

SEEKING FOR COLLABORATION WITHIN

biotechnology, microbiology, drug discovery, chemistry

RELEVANT PROJECTS

MAESTRO

NIH R01 AI155611-01

Assoc. Prof.

Radosław Kowalski

AQUATIC ORGANISM REPRODUCTIVE BIOTECHNOLOGY TEAM

INLIFE INSTITUTE OF ANIMAL REPRODUCTION AND FOOD RESEARCH, PAS

DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES

R.KOWALSKI@PAN.OLSZTYN.PL

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EXPERTISE

The research interests focus broadly on the reproduction of aquatic organisms and its support under controlled conditions. This includes understanding physiological and biochemical mechanisms underlying gamete function, as well as developing and optimizing methods that enhance reproductive success in both experimental and applied contexts, including aquaculture and conservation programs. Specific expertise: sperm motility and kinematic analysis, seminal plasma biochemistry and functional biomarkers, sperm cryopreservation and long-term storage of genetic resources.

SEEKING FOR COLLABORATION WITHIN

genetic and genomic analyses, molecular data, reproductive processes

RELEVANT PROJECTS

Salmocross

Professor

Łukasz Marciniak

LUMINESCENT NANOPARTICLE FOR SENSING AND IMAGING
LUNASI GROUP,
DIVISION OF BIOMEDICAL PHYSICOCHEMISTRY

INSTITUTE OF LOW TEMPERATURE & STRUCTURE RESEARCH, PAS

DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES

L.MARCINIAK@INTIBS.PL

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EXPERTISE

Our laboratory is focused on developing multi-functional nano- and microparticles for sensing and imaging of physical and chemical quantities. We are interested in applications of luminescence thermometry and manometry. We work on the implementation of remote temperature and pressure readout techniques for controlling biological and industrial processes. Additionally, we have developed a phosphor for LED, the plant cultivation industry, and NIR lightning.

SEEKING FOR COLLABORATION WITHIN

optical spectroscopy, luminescence, luminescent materials, sensing, nanoparticles, nanomaterials

RELEVANT PROJECTS

HSTI

SensiTherm

Professor
Artur Bednarkiewicz
LUMINESCENT NANOPARTICLE ASSISTED SENSING AND IMAGING GROUP (LUNASI), DIVISION OF BIOMEDICAL PHYSICOCHEMISTRY

INSTITUTE OF LOW TEMPERATURE & STRUCTURE RESEARCH, PAS

DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES

A.BEDNARKIEWICZ@INTIBS.PL

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EXPERTISE

Our laboratory is focused on new colloidal luminescent nanomaterials and biodetection techniques (imaging, FRET biosensing) based on luminescence. We have expertise in synthesis of core–multiple shell nanoparticles doped with lanthanide ions, which could be alternative to organic fluorescent labels. They can be used for nanothermometry, FRET biosensing, optical cooling and heating, etc. We have experience in building customized optical/imaging/spectroscopic methods and instruments.

SEEKING FOR COLLABORATION WITHIN

biospectroscopy, biosensing, imaging, optical instruments, FRET, nanothermometry, hyperthermia

RELEVANT PROJECTS

NanoTBTech

Sensitized Photon avalanche

Photon avalanche

Professor
Rafał Wiglusz
BBRA - BIOMATERIALS FOR BIO-RELATED APPLICATIONS, DIVISION OF BIOMEDICAL PHYSICOCHEMISTRY

INSTITUTE OF LOW TEMPERATURE & STRUCTURE RESEARCH, PAS

DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES

R.WIGLUSZ@INTIBS.PL

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EXPERTISE

Our laboratory is focused on the preparation of nanosized biomaterials, followed by the creation of periodically ordered nanostructures based on single nanoparticles. An important factor is the design and fabrication of nanocomponents with new functionalities and characteristics for improving existing materials: photonic and conductive materials, polymers and composites. The aim is to develop innovative products and applications in electronics and biomedicine based on nanoscale technology.

SEEKING FOR COLLABORATION WITHIN

biomaterials, tissue regeneration, cells proliferation, biopolymers, hydrogels, block copolymers

RELEVANT PROJECTS

NCN funded project

NCN funded project

POIR

POWR

Professor
Bartłomiej Witkowski
GROUP OF PHYSICS OF OXIDE STRUCTURES

INSTITUTE OF PHYSICS, PAS

DIVISION III - MATHS, PHYSICS, CHEMISTRY, EARTH SCIENCES

BWITKOW@IFPAN.EDU.PL

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EXPERTISE

Our team specializes in the production and characterization of various types of oxide nanostructures. Among our recent achievements is the development of a simple and cheap method for the growth of CuO layers exhibiting memristor properties, which hold significant promise for applications in electronics. We have successfully demonstrated a memory cell that does not require power to maintain its logical state.

SEEKING FOR COLLABORATION WITHIN

memory cells, electrical characterization, in-situ TEM measurements, Electron Lithography

RELEVANT PROJECTS

NCN projects

Ministry of Science and Higher Education projects

EAgLE

NCBR projects (TECHMATSTRATEG, POIR, POIG, PBS)

Professor

Yaroslav Zhydachevskyy

GROUP OF HIGH-PRESSURE SPECTROSCOPY

INSTITUTE OF PHYSICS, PAS

DIVISION III - MATHS, PHYSICS, CHEMISTRY, EARTH SCIENCES

ZHYDACH@IFPAN.EDU.PL

+48 22 116 35 18

EXPERTISE

Our group is focused on the spectroscopy of optical materials in ambient and extreme conditions including high pressures, cryogenic and high temperatures. We are interested in studies of novel crystalline phosphors, semiconductors and quantum structures based on nitrides and oxides as laser materials, optical radiation converters, ionizing radiation detectors, luminescent temperature and pressure sensors, biological markers. We are also interested in materials for mechanoluminescent applications.

SEEKING FOR COLLABORATION WITHIN

optical spectroscopy, high-pressure spectroscopy, mechanoluminescence, thermoluminescence

RELEVANT PROJECTS

NCN project

NATO SPS

NCN project

NCN project

POIG

PhD, DSc

Marcin Klepka

LABORATORY OF X-RAY AND ELECTRON MICROSCOPY RESEARCH

INSTITUTE OF PHYSICS, PAS

DIVISION III - MATHS, PHYSICS, CHEMISTRY, EARTH SCIENCES

MKLEPKA@IFPAN.EDU.PL

+48 22 116 34 79

EXPERTISE

Our lab focuses on the characterization of the structural and electronic properties of matter, ranging from bulk material, through 1D/2D/3D nanoobjects, to biologically active molecules. We apply experimental techniques based on X-ray (XRD, XAS, XPS), electron (SEM, TEM) and ion beams (SIMS), supported with theoretical modelling (DFT). Our research extends towards non-ambiguous (low/high temperature, high pressure) conditions and dynamic studies (down to sub-ps time scale).

SEEKING FOR COLLABORATION WITHIN

x-ray spectroscopy and diffraction, atomic structure and structural transformation

RELEVANT PROJECTS

NCN projects

Ministry of Science and Higher Education projects

EAgLE

Science Link

Baltic Tram

PhD, DSc

Bożena Sikora-Dobrowolska

LABORATORY OF BIOLOGICAL PHYSICS

INSTITUTE OF PHYSICS, PAS

DIVISION III - MATHS, PHYSICS, CHEMISTRY, EARTH SCIENCES

BOZENA.SIKORA@IFPAN.EDU.PL

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EXPERTISE

Our research concentrates on the optical and thermoelectric properties of van der Waals-type materials and low-dimensional quantum structures obtained based on chalcogenides of metals from groups II and IV, as well as on developing methods for their growth. In particular, we focus on photonic and topological effects in semiconductor quantum structures to apply these effects to next-generation optical and thermoelectric devices.

SEEKING FOR COLLABORATION WITHIN

hyperthermia, protein labeling, MRI measurements, *in vivo* testing, nanoparticle synthesis

RELEVANT PROJECTS

NCN/SONATA8

Professor

Iwona Grabowska

BIOELECTROANALYTICS TEAM

INLIFE INSTITUTE OF ANIMAL REPRODUCTION AND FOOD RESEARCH, PAS

DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES

I.GRABOWSKA@PAN.OLSZTYN.PL

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EXPERTISE

Studying the interactions between biomolecules using electroanalytical methods to develop innovative analytical systems that can be applied in medicine, veterinary science, food analysis, and environmental protection. We are particularly interested in: • testing of antibodies, single-stranded nucleic acids (ssDNA, ssRNA), and aptamers as recognition element in electrochemical biosensors, • exploring new carbon or gold nanomaterials as transducer element in biosensors, • systems for targeted and controlled delivery of therapeutically significant compounds to cancer cells.

SEEKING FOR COLLABORATION WITHIN

electrochemical biosensors, aptasensors, immunosensors, genosensors, biomarkers

RELEVANT PROJECTS

ADEVASCO

NCN OPUS

NCN OPUS

Professor

Marek Strączkowski

HEAD OF PROPHYLAXIS OF METABOLIC DISEASES TEAM

INLIFE INSTITUTE OF ANIMAL REPRODUCTION AND FOOD RESEARCH, PAS

DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES

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EXPERTISE

Research within the Prophylaxis of Metabolic Diseases Team focuses on the pathogenesis of insulin resistance, with particular emphasis on assessment of insulin resistance in individuals at increased risk of type 2 diabetes, pathogenesis of skeletal muscle and adipose tissue insulin resistance - tissue transcriptomic, cell cultures mechanisms of an improvement in insulin sensitivity during lifestyle intervention.

SEEKING FOR COLLABORATION WITHIN

pathogenesis of skeletal muscle and adipose tissue insulin resistance

RELEVANT PROJECTS

NCN OPUS

PhD, DSc, Assoc. Prof.

Tomasz Wypych

LABORATORY OF HOST-MICROBIOME INTERACTIONS

INLIFE INSTITUTE OF ANIMAL REPRODUCTION AND FOOD RESEARCH, PAS

DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES

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EXPERTISE

Our research aims to unravel bidirectional interactions between the commensal microbiota and the host, which could be harnessed to treat inflammatory diseases. On the microbial side, we focus on identifying immunomodulatory metabolites active in the lungs and brain, and tailoring them toward the formulation of therapeutics against inflammatory conditions such as respiratory infections, asthma, and neuroinflammation. On the host side, we dissect IgA bacteria interactions that promote colonization of specific bacterial strains and exert far reaching effects on airway immunity.

SEEKING FOR COLLABORATION WITHIN

immunology, asthma, neurodegenerative disease, microbiome, metabolism

RELEVANT PROJECTS

FIRST TEAM - FENG

Professor

Izabela Wocławek-Potocka

EMBRYO BIOLOGY TEAM

INLIFE INSTITUTE OF ANIMAL REPRODUCTION AND FOOD RESEARCH, PAS

DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES

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EXPERTISE

We research advanced reproductive biotechnology in cattle, focusing on pre-implantation embryo development and oocyte quality markers to assess embryo viability. Our core method is in vitro embryo production (IVP), supporting micromanipulation, gene expression analysis, immunofluorescence, embryo culture, cryopreservation, and transfer. We study oocytes collected post-mortem and in vivo (OPU) from mature and immature animals, including young cattle to accelerate genetic progress. Our findings are translated into practical field applications for veterinarians and cattle breeders.

SEEKING FOR COLLABORATION WITHIN

embryotransfer, in vitro embryo production, veterinary

RELEVANT PROJECTS

NCN OPUS Lap

NCN OPUS

NCN OPUS

Assoc. Prof.

Joanna Wiśniewska

LABORATORY OF SPATIAL EPIGENETICS

INLIFE INSTITUTE OF ANIMAL REPRODUCTION AND FOOD RESEARCH, PAS

DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES

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EXPERTISE

The research of the Regenerative Biology Team focuses primarily on the cellular and molecular mechanisms of skin wound healing. We are particularly interested in the following areas: • the impact of diet, aging, and metabolic status on the wound healing process; • skin regeneration versus repair; • wound healing–associated skin fibrosis; • metabolic regulation of skin regeneration and fibrosis; • skin immunology; • stem cells in wound healing and skin regeneration; • *in vitro* skin models in translational research

SEEKING FOR COLLABORATION WITHIN

metabolic diseases, nutrition , aging and regenerative medicine, immunology, inflammation, bioengineering

RELEVANT PROJECTS

PhD, DSc

Katarzyna Leszczyńska

LABORATORY OF TUMOUR OF HYPOXIA AND EPIGENOMICS

NENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY, PAS

DIVISION II - BIOLOGICAL AND AGRICULTURAL SCIENCES

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EXPERTISE

Our research group focuses on tumour progression and therapy resistance in H3K27-altered diffuse midline gliomas (DMG). We investigate how tumour hypoxia and the H3K27M oncohistone can be exploited for therapeutic benefit. We apply CUT&RUN, ATAC-seq and chromatin capture to identify druggable vulnerabilities in DMG cells and their microenvironment. We study hypoxia-driven chromatin reprogramming, evaluate H3K27M-dependent gene targets, and explore strategies to eliminate the detrimental oncohistone from DMG cells.

SEEKING FOR COLLABORATION WITHIN

tumour microenvironment, mouse glioma models, paediatric high-grade gliomas, epigenomics, radiotherapy

RELEVANT PROJECTS

HIT-GLIO

PhD
Michał Szot
GROUP OF PHYSICS AND TECHNOLOGY OF EPITAXIAL LAYERS

INSTITUTE OF PHYSICS, PAS

DIVISION III - MATHS, PHYSICS, CHEMISTRY, EARTH SCIENCES
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EXPERTISE

Our research concentrates on the optical and thermoelectric properties of van der Waals-type materials and low-dimensional quantum structures obtained based on chalcogenides of metals from groups II and IV, as well as on developing methods for their growth. In particular, we focus on photonic and topological effects in semiconductor quantum structures to apply these effects to next-generation optical and thermoelectric devices.

SEEKING FOR COLLABORATION WITHIN

van der Waals heterostructures, photonic structures and infrared detectors, thermoelectric devices

RELEVANT PROJECTS

MagTop

PhD, DSc
Emilia Witkowska
THEORETICAL PHYSICS

INSTITUTE OF PHYSICS, PAS

DIVISION III - MATHS, PHYSICS, CHEMISTRY, EARTH SCIENCES
EMILIA.WITKOWSKA@IFPAN.EDU.PL
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EXPERTISE

Our research explores the foundations of quantum physics, in the context of applications in quantum information, simulators, metrology and quantum computing. Our work includes the physics of ultra cold atoms, ions and molecules, polariton-excitons, semiconductors and NV centres. Statistical physics methods are employed to study protein activity, the behaviour of cell membranes that control key aspects of biological cell functions, and the dynamics of semiconductor growth.

SEEKING FOR COLLABORATION WITHIN

quantum information, simulators, ultra-cold atoms, NV centres, semiconductor growth, biophysics

RELEVANT PROJECTS

Quantera
NCN/SonataBis/OPUS/DAINA/SHENG
FNP/FirstTeam

Professor
Tadeusz Magiera
DEPARTMENT OF ENVIRONMENTAL MAGNETISM AND RECLAMATION

INSTITUTE OF ENVIRONMENTAL ENGINEERING,PAS

DIVISION IV - ENGINEERING SCIENCES
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EXPERTISE

This laboratory is focused on the development of “in situ” geophysical methods for precise location of soil contaminated areas. In particular, we are interested in this implementation of soil magnetometry following the ISO 21226:2019 methodology for fast and precise identification of contaminated areas, for the better land-use management of local and regional soil resources, and to build a relevant database avail-able for policy-makers, citizens, and local investors.

SEEKING FOR COLLABORATION WITHIN

Soil Mission, Green Deal, soil management practice, Transition Challenge: Environmental Intelligence

RELEVANT PROJECTS

IMPACT

Professor

Joanna Kulczycka

DIVISION OF STRATEGIC RESEARCH

MINERAL AND ENERGY ECONOMY RESEARCH INSTITUTE, PAS

DIVISION IV - ENGINEERING SCIENCES

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EXPERTISE

Our division carries out research in the field of economics, together with eco-efficiency, environmental management, raw material and waste markets, an environmental technology and engineering, including social aspects. We have competences and knowledge in the field of market analysis for raw materials, waste management, recycling, environmental technologies and life cycle assessment, as well as the circular economy. We create environmental policies and indexes.

SEEKING FOR COLLABORATION WITHIN

circular economy, eco-efficiency and environmental impact assessment, minerals and waste management

RELEVANT PROJECTS

Pheidias

BattValue

InPhos

PhD, DSc

Joanna Domańska

SECURITY, MODELLING AND PERFORMANCE EVALUATION GROUP

INSTITUTE OF THEORETICAL AND APPLIED INFORMATICS, PAS

DIVISION IV - ENGINEERING SCIENCES

JOANNA@IITIS.PL

EXPERTISE

My team is working on issues related to: anomaly detection and energy performance in Internet of Things (IoT) networks; semantic spatial orientation as a foundation for autonomous navigation systems that understand natural language context; software vulnerability prediction, particularly focusing on static code analysis using artificial intelligence algorithms; explainability of deep neural networks.

SEEKING FOR COLLABORATION WITHIN

attack detection, autonomous driving, vulnerability prediction, energy performance, explainable AI

RELEVANT PROJECTS

SerIoT

SDK4ED

IoTAC

DOSS

Professor

Zbigniew Puchała

QUANTUM SYSTEMS OF INFORMATICS GROUP

INSTITUTE OF THEORETICAL AND APPLIED INFORMATICS, PAS

DIVISION IV - ENGINEERING SCIENCES

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EXPERTISE

The Group is focusing on developing quantum algorithms, error correction methods, and practical applications of quantum devices. It actively participates in various R&D projects, including the Team Net project, addressing challenges in quantum technologies. Additionally, the Group has developed software for simulating quantum annealers on classical computers, facilitating research into modern quantum architectures and optimization, along with tools for visualizing and analyzing the results.

SEEKING FOR COLLABORATION WITHIN

quantum computing, quantum error correction, machine learning, and optimization

RELEVANT PROJECTS

Near-term Quantum Computers Challenges

PhD, DSc

Michał J. Dąbrowski

COMPUTATIONAL BIOLOGY GROUP

INSTITUTE OF COMPUTER SCIENCE, PAS

DIVISION IV - ENGINEERING SCIENCES

M.DABROWSKI@IPIPAN.WAW.PL

EXPERTISE

Dr. Dąbrowski specializes in bioinformatics, focusing on the epigenetics, especially DNA methylation in NGS data. His team discovers non-coding DNA regions contributing to i.e. gene expression regulation, 3-D chromatin structure composition, whose disorders result in pathological states and due to that are further tested in laboratory. They created a tool for Feature Selection in multidimensional data (MCFS-ID), returning ranking of features to be further used in classification as well as CytoMeth for comprehensive DNA methylation analysis.

SEEKING FOR COLLABORATION WITHIN

machine learning, feature selection, epigenetics, glioma tumor, single cell, population genetics

RELEVANT PROJECTS

Unveiling the role of VPS10P domain receptors

Monte Carlo Feature Selection

Professor

Szymon Jaroszewicz

STATISTICAL ANALYSIS AND MODELING GROUP

INSTITUTE OF COMPUTER SCIENCE, PAS

DIVISION IV - ENGINEERING SCIENCES

S.JAROSZEWICZ@IPIPAN.WAW.PL

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EXPERTISE

Our group is focused on statistical and machine learning methods, being particularly interested in causal discovery, from experimental and observational data, especially uplift modeling, heterogeneous treatment effect estimation, multi-label classification and positive-and-unlabeled data. We have also significant expertise in analysis of high-dimensional data, especially using information theoretical methods. We are also skilled in practical applications of machine learning and statistical methods.

SEEKING FOR COLLABORATION WITHIN

causal discovery, high dimensional data, positive-and-unlabeled classification, variable selection

RELEVANT PROJECTS

SAI

Uplift modeling in marketing and biomedical research.