Research Council of Finland

Panel structure for 2026 winter call

Guidelines for panel selection

1. Examine several panel descriptions in your field and carefully read both the scope and keywords before choosing the panel.
2. Choose one panel and one scientific council for your application. None of the panels are linked to a particular scientific council as such.
3. Submit your application to the most relevant panel. We may reallocate applications, but only if there has been an obvious typographical error or other mistake in the selection. You will be informed in such cases.

Please note:

- Any topic is welcome, whether explicitly stated in panel descriptions or not. Panels are typically multidisciplinary.
- The lists of keywords in panel descriptions are non-exhaustive; their aim is to guide your selection.
- The panel structure does not represent any scientific classification as such. Panel numberings, titles or descriptors do not reflect any priorities.
- The panel ‘Clinical Researcher’ will not be organised in the 2026 winter call. No other changes in the structure have been made compared to last year. Some panel titles and descriptions have been revised based on last year’s experiences.
- A panel may be split if the number of applications submitted to it is so high that the quality of the review is compromised.

Panel structure

RC26_01 **Arts and literature**	RC26_02 **Atmospheric sciences**	RC26_03 **Bioinformatics and systems biology**	RC26_04 **Biotechnology, biomedical materials, developmental biology and stem cell technologies**	RC26_05 **Cancer, immunology or cancer immunology**	RC26_06 **Cell and molecular biology and biochemistry**	RC26_07 **Chemical and process engineering**
RC26_08 **Chemistry**	RC26_09 **Clinical medicine**	RC26_10 **Communications engineering and electronics**	RC26_11 **Computer science and software engineering**	RC26_12 **Cultural studies and gender studies**	RC26_13 **Data science, artificial intelligence and statistics**	RC26_14 **Earth systems**
RC26_15 **Ecology and evolutionary biology**	RC26_16 **Economics and business and management**	RC26_17 **Ecosystems, energy flow and biogeochemical cycles**	RC26_18 **Education**	RC26_19 **Energy engineering**	RC26_20 **Environmental social science and human geography**	RC26_21 **History and archaeology**
RC26_22 **Human factors and technology design**	RC26_23 **Law, rights and governance**	RC26_24 **Lifestyle, life course and public health**	RC26_25 **Linguistics and language studies**	RC26_26 **Materials physics and applied photonics**	RC26_27 **Mathematics**	RC26_28 **Mechanics, structural and materials engineering**
RC26_29 **Medical engineering**	RC26_30 **Neuroscience**	RC26_31 **One health, food sciences and animal sciences**	RC26_32 **Philosophy, theology and the study of religions**	RC26_33 **Physics of matter and light and quantum science**	RC26_34 **Plant and forest sciences**	RC26_35 **Politics and communication**
	RC26_36 **Psychology, behaviour and learning**	RC26_37 **Robots, automation and production design**	RC26_38 **Sociology, demography and social work**	RC26_39 **Universe sciences and subatomic physics**	RC26_40 **Welfare, wellbeing and health**	

Back to main page

RC26_01
Arts and literature

Scope

The panel reviews applications in all areas of art research, musicology and literary research, as well as multidisciplinary applications that contribute primarily to these research fields.

Keywords

aesthetics; art history; art education; artistic research; art and design; art and wellbeing; performance studies; theatre; dance; film; fashion; music psychology; sociology of music; ethnomusicology; music history; comparative literature; literary history; literary and cultural studies; literary criticism; literature and identities; literature and environment

Back to main page

RC26_02
Atmospheric sciences

Scope

The panel covers research in atmospheric sciences.

- Please also see related panels, particularly: Earth systems (e.g. for glaciology and snow research); and Universe sciences and subatomic physics (e.g. for ionospheric physics, planetary and exoplanetary atmospheres and space weather).

Keywords

atmospheric chemistry; atmospheric composition; atmospheric aerosol research; air pollution; atmospheric remote sensing; climatology and climate change; climate modelling; meteorology; atmospheric physics and dynamics; ozone; upper atmosphere; ionosphere

Back to main page

RC26_03
Bioinformatics and systems biology

Scope

The scope of this panel covers data sciences in biology, biosciences and medicine, including related computational and mathematical analysis and modelling of complex biological systems as well as experimental studies. The focus of research can be on either method development or analysis of biological data, or both.

Keywords

bioinformatics; biostatistics; computational biology; computational ecology; genetic epidemiology; genomics and other large-scale 'omics' studies; integrative biology for personalised medicine and public health; pharmacogenetics; preventive and prognostic biology and medicine

Back to main page

RC26_04

Biotechnology, biomedical materials, developmental biology and stem cell technologies

Scope

The panel includes basic and applied research (using all organisms) on biotechnology and bioengineering, developmental biology and stem cell research (incl. organoids and tissue regeneration), biomedical materials and nanomedicine. Research on pharmacology related to drug targeting and delivery to tissues and toxicology of engineered materials and therapeutics are also included.

- Please also see related panels, particularly: Cell and molecular biology and biochemistry, Chemistry and Neuroscience.

Keywords

biomedical materials; biotechnology (microbial, industrial, medical and pharmaceutical); bioengineering and synthetic biology; biophysics; developmental biology; stem cells; pharmacology; toxicology

Back to main page

RC26_05
Cancer, immunology or cancer immunology

Scope

The panel includes nonclinical basic and translational cancer research and immunological research.

Keywords

cancer: molecular and cellular cancer research; cancer stem cells; haemato-oncology; (cancer) imaging; metastasis and interaction with the microenvironment; oncogenes and tumour suppressors

immunology: molecular and cellular immunology; innate and adaptive immunity; autoimmune diseases (research on molecular/cellular level); autoimmunity; allergy; immunotherapy; inflammation

Back to main page

RC26_06
Cell and molecular biology and biochemistry

Scope

The panel includes research on biological structures, functions and mechanisms at molecular and cellular levels.

- Please see also related panels, particularly: Biotechnology, biomedical materials, developmental biology and stem cell technologies (e.g. for developmental biology or stem cell research); Cancer, immunology or cancer immunology (e.g. for molecular or cellular cancer research, molecular or cellular immunology research or inflammation); Neuroscience (e.g. for molecular or cellular neuroscience or neurogenetics); and One health, food sciences and animal sciences (for host-microbe interactions, e.g. infectious diseases and pathogens, zoonosis or antimicrobial resistance).

Keywords

biochemistry; biophysics; cell and molecular biology; cellular and molecular microbiology and virology; structural biology; modelling in molecular and structural biology

Back to main page

RC26_07
Chemical and process engineering

Scope

This panel covers technological and engineering research within the chemical, process and environmental area (see keywords).

- Please also see related panels, particularly: Chemistry; Energy engineering; Materials physics and applied photonics; Mechanics, structural and materials engineering; and Biotechnology, biomedical materials, developmental biology and stem cell technologies.

Keywords

chemical engineering; process engineering; technical chemistry and chemical technology; catalysis; industrial environmental engineering; wastewater treatment; waste treatment and utilisation; separation technology; biomass refinery technology; biobased materials (lignin, cellulose, fibres)

Back to main page

RC26_08
Chemistry

Scope

The panel covers fundamental chemistry research in the broadest sense (see keywords), incl. fundamental studies of molecular properties and chemical reactions; development of analytical and theoretical methods; synthesis, properties and characterisation of compounds and materials. Theoretical, experimental and computational approaches are all relevant to the panel.

- Please also see related panels, particularly: Chemical and process engineering (e.g. biobased materials such as cellulose); Materials physics and applied photonics; Biotechnology, biomedical materials, developmental biology and stem cell technologies; and Energy engineering (for fuel cells).

Keywords

analytical chemistry; inorganic chemistry; organic chemistry; physical chemistry; theoretical chemistry; computational chemistry; electrochemistry (incl. battery research and related materials); photochemistry; supramolecular chemistry; natural product chemistry; biological chemistry; medicinal chemistry; coordination chemistry; organometallic chemistry; colloid chemistry; polymer chemistry (incl. biopolymers); radiochemistry; materials chemistry; surface chemistry; solid state chemistry; heterogeneous and homogeneous catalysis

Back to main page

RC26_09
Clinical medicine

Scope

The panel includes all fields of clinical medicine, odontology and veterinary medicine, concentrating on individual health and illness.

- Please see also related panels, particularly: Biotechnology, biomedical materials, developmental biology and stem cell technologies; Cell and molecular biology and biochemistry; Lifestyle, lifecourse and public health; Neuroscience; and One health, food sciences and animal sciences.

Keywords

All clinical disciplines

Back to main page

RC26_10
Communications engineering and electronics

Scope

The panel covers fundamental engineering research, targeting communications engineering and electronics.

- Please see also other panels, particularly: Materials physics and applied photonics.

Keywords

circuits and systems; analogue; digital and mixed signal electronics; rf electronics and antenna design; micro-, nano- and printed electronics; micro- and nano-electronic components; computer hardware and reconfigurable architectures; computer architecture; radio science and engineering; wireless and high-frequency technology; communication and information theory; communication systems; communication networks; communications engineering and electronics related signal processing

Back to main page

RC26_11
Computer science and software engineering

Scope

This is the main panel for computer science. The scope is wide and covers all layers of technical complexity, programming and software engineering approaches.

- Please also see related panels, particularly: Data science, artificial intelligence and statistics; Communications engineering and electronics (for hardware layer components); and Human factors and technology design (for human-computer interaction and information systems sciences).

Keywords

computer science; theoretical computer science; software engineering; computer graphics; formal methods; algorithms; programming; security and privacy; parallel and distributed computing; software architectures; embedded systems; operating systems; database systems; knowledge representation

Back to main page

RC26_12
Cultural studies and gender studies

Scope

The panel reviews applications in cultural and social anthropology, development studies, ethnology and folklore studies and gender studies as well as other multidisciplinary studies contributing primarily to these research fields.

- Please also see related panels if your research field is development studies, particularly: Environmental social science and human geography.

Keywords

attitudes and beliefs; cultural heritage; discrimination; diversity; emotions and affects; ethnicity; exclusion; family; identity; inequalities; intersectionality; kinship; LGBTIQ+; masculinity; memory; migration; minorities; poverty; power; prejudice; race; religions; rituals; sexuality; social integration; social mobility; symbolic representation; youth

Back to main page

RC26_13
Data science, artificial intelligence and statistics

Scope

This panel focuses on research into data science, AI and statistics. Projects that utilise AI or statistics as tools are addressed by other panels.

- Please also see related panels, particularly: Bioinformatics and systems biology (for bioinformatics and related data analysis and modelling); Human factors and technology design (for human-AI interaction and AI in society); Robots, automation and production design; Computer science and software engineering (for theoretical computer science research); and Mathematics.

Keywords

data science (e.g. pattern recognition, predictive analytics); data mining; statistics; statistical inference (e.g. Bayesian inference); machine learning; deep learning; big data; natural language processing; speech recognition; sensor data analysis; computer vision; optimisation

Back to main page

RC26_14
Earth systems

Scope

This panel concerns the Earth's geo-, cryo- and hydrosphere, as well as Earth observation. Topics covered contribute to natural sciences and engineering, representing areas listed as examples in the keywords.

- Please also see related panels, particularly: Atmospheric sciences; Robots, automation and production design; Ecosystems, energy flow and biogeochemical cycles; One health, food sciences and animal sciences; and Plant and forest sciences.

Keywords

geology; mineralogy and petrology; palaeoclimatology; palaeontology; quaternary geology; sedimentology; tectonics; environmental geology; surface and subsurface hydrology; water resources management; oceanography; glaciology and snow research; geochemistry; geophysics; physical geography; environmental modelling; remote sensing; geoinformatics; geodesy

Back to main page

RC26_15
Ecology and evolutionary biology

Scope

The scope of this panel includes ecology, evolutionary biology and ecophysiology.

Keywords

animal behaviour; behavioural ecology; biodiversity; community ecology; conservation biology; ecology; ecophysiology; evolutionary biology; evolutionary ecology; evolutionary genomics; host-parasite interactions; microbial evolution; molecular evolution; population ecology; phylogenetics and systematics; theoretical ecology

RC26_16
Economics, and business and management

Scope

The panel covers all fields of economics and finance and business research incl. management science, industrial management, organisation studies, accounting, marketing and entrepreneurship. Business-focused applications in organisational communication and operations research, and multidisciplinary applications in innovation studies and area/industrial development also fit the scope.

- Please also see related panels, particularly Law, rights and governance (business law); Human factors and technology design (information systems science, management information systems and other technology-focused applications); and Politics and communication (organisational communication).

Keywords

macroeconomics; microeconomics; econometrics; finance; development economics; urban and real estate economics; public economics; labour economics; behavioural economics; health economics; international economics; environmental and resource economics; agricultural economics; industrial organisation; business studies; business administration; management; strategy; organisation studies; human resources management; accounting; management accounting; marketing; corporate social responsibility (CSR); industrial management; international business; entrepreneurship; SMEs; innovations; logistics; supply chain management

Back to main page

RC26_17
Ecosystems, energy flow and biogeochemical cycles

Scope

This panel focuses on natural ecosystems and interaction of physical, chemical and biological processes. This includes elemental cycles and energy flows in all habitats.

Keywords

aquatic science; biogeochemical cycles (aquatic, terrestrial, atmospheric); dendrochronology; environmental microbiology; environmental science; environmental stressors; geosciences (with biological links/elements); microbial ecology; paleoecology; peatlands; soil science

Back to main page

RC26_18
Education

Scope

This panel focuses on education as a societal, cultural and system-level phenomenon. Although the main focus is on the field of education, the research is typically interdisciplinary, linking especially to political sciences, administrative sciences, sociology and other social sciences, philosophy and social environmental research. The scope covers all educational levels when relevant.

- Please also see related panels, particularly: Psychology, behaviour and learning; and Linguistics and language studies.

Keywords

education science; adult education science; vocational education research; education evaluation research; general education; teacher education; teaching and pedagogy; education policy; study paths and education transitions; education systems; education evaluation; comparative (international) education research; philosophy of education, sociology of education; education and equality; special education; participation and inclusion in education; democracy and education; learning environments (physical/digital); expertise; work in academia; vocational education; higher education; lifelong learning; environmental and sustainable development within education; social and professional role of teachers; literacy (digital, media, AI); other possible fields

Back to main page

RC26_19
Energy engineering

Scope

The panel approaches different methods of energy production, conversion, distribution and storage.

- Please also see related panels, particularly: Chemistry (research in batteries and related materials); and Materials physics and applied photonics (research in solar cell materials).

Keywords

electric power and energy systems; energy conversion processes; energy generation power plants and industrial energy; electrical motors; internal combustion engines; combustion technology; fuel cells; renewable energy; thermodynamics; energy distribution and storage

Back to main page

RC26_20
Environmental social science and human geography

Scope

The panel reviews applications in environmental social science, human geography, urban, spatial and regional planning and development studies, as well as multidisciplinary studies contributing primarily to these research fields.

Keywords

economic geography; environment and development; environmental anthropology; environmental politics and policy; environmental sociology; human mobility; human–nature interactions; land use; landscape architecture; multi-species studies; political ecology; political geography; regional studies; social and cultural geography; sustainability transitions; tourism research; urban studies

Back to main page

RC26_21
History and archaeology

Scope

The panel reviews applications in history and archaeology. Applications can focus on national or international topics, analyse themes from prehistory to the contemporary period, and examine theoretical or methodological questions. The panel also welcomes multidisciplinary applications contributing mainly to research on history or archaeology.

Keywords

cultural history; economic history; environmental history; history of science and technology; history theory and methodology; intellectual history; military history; political history; social history; museology; bioarchaeology; prehistoric archaeology; classical archaeology; medieval archaeology; urban and industrial archaeology; maritime archaeology; indigenous archaeology

Back to main page

RC26_22
Human factors and technology design

Scope

This is a multidisciplinary review panel for applications in human-computer interaction, information systems and design in various domains. The scope of the panel covers a wide range of themes combining human agency with technology, business and design (see examples in keywords).

Keywords

human-computer interaction; information systems; design research; business administration, information management and systems; psychology and emotions; education and learning; health and care; economy and innovation; AI and society, explainable AI; virtual, augmented and extended reality; digital games and gamification

Back to main page

RC26_23
Law, rights and governance

Scope

The panel reviews applications in all fields of law and legal studies, including socio-legal studies and empirical legal research, interdisciplinary applications with a significant legal component, and applications on rights, governance and regulations in other fields (e.g. criminology, environmental social science research, management and business research, gender studies, political science, public administration, other social sciences).

Keywords

administrative law; commercial law; comparative law; constitutional law; criminal law and criminal justice; environmental law; European law; family law; financial law; international economic law; international law; intellectual property; labour law; private law; procedural law; property law; public law; welfare law; legal philosophy; jurisprudence; legal history; doctrinal study of law; socio-legal studies; empirical legal studies; criminology; legal policy; legal geography; space and law; digital approaches to law; gender and law; arbitration and dispute resolution; contractual frameworks and theory; governance; administration; civil service; accountability; organisations; regulations; regulatory theory; human rights; minorities; environmental issues

Back to main page

RC26_24
Lifestyle, life course and public health

Scope

The panel's scope includes research on population prevalences of lifestyle and health, life course and public health.

Keywords

cardiovascular health; cognition and health; disease prevention; epidemiology; health behaviour; health intervention; health promotion; human microbiota; life course; lifestyle; mental health; metabolic health; nutritional science; obesity; physiology; physical activity; public health; sedentary behaviour

Back to main page

RC26_25
Linguistics and language studies

Scope

The panel's scope includes applied and theoretical linguistics, phonetics, individual languages and language groups, and the study of language, culture and society. The panel also reviews psycholinguistics and neurolinguistics applications with a strong focus on linguistics research.

- Please also see related panels, particularly: Education (applications within educational sciences) and Psychology, behaviour and learning (applications in neurolinguistics and psycholinguistics).

Keywords

applied linguistics; corpus linguistics; computational linguistics and language technology; historical linguistics; language acquisition; language learning and language education; language revitalisation; language variation; heritage, indigenous, and minority languages; neurolinguistics; psycholinguistics; sociolinguistics; translation and interpreting studies; genealogy; gender; linguistic anthropology; morphology and syntax; phonetics and phonology; semantics and pragmatics; typology; discourse analysis; conversation analysis; interaction analysis; multimodal analysis

Back to main page

RC26_26
Materials physics and applied photonics

Scope

The panel focuses on physical properties of materials, incl. applied aspects of light-matter interaction. This includes development, fabrication and characterisation of materials such as semiconductors, thin films, organic electronics, and soft matter physics. The panel also covers the design and fabrication of photonic and optoelectronic materials, incl. their use in areas such as photovoltaics, photodetectors, optical sensing and imaging. Relevant are theoretical, experimental and computational approaches.

- Please also see related panels, particularly: Chemistry (applications in catalysis or electrochemistry); Chemical and process engineering (biobased materials such as cellulose); Physics of matter and light and quantum science (more fundamental aspects of photonics); Mechanics, structural and materials engineering (mechanical properties of materials and additive manufacturing); Robots, automation and production design; and Medical engineering (biomedical optics).

Keywords

materials physics; functional materials; semiconductors; surface physics; thin films; organic electronics; photovoltaics and photodetectors; photonics materials (incl. optical metamaterials); optoelectronics and optoelectronic components; optical sensing and imaging; laser physics; soft matter physics (incl. wetting)

Back to main page

RC26_27
Mathematics

Scope

The panel covers research on the development of novel mathematical techniques, theories, concepts or models, including application-oriented research contributing to advancements in mathematics.

- Please also see related panels, particularly: Data science, artificial intelligence and statistics; and Computer science and software engineering.

Keywords

complex analysis; harmonic analysis; partial differential equations; functional analysis; geometric measure theory; calculus of variations; geometry; inverse problems; mathematical physics; dynamic systems theory; control theory; algebra; combinatorics; number theory; mathematical logic; coding theory; graph theory; group theory; probability theory; numerical analysis

Back to main page

RC26_28
Mechanics, structural and materials engineering

Scope

In this panel, the main focus of research is on manufacturing, shaping and joining of materials mainly used in mechanical engineering or civil engineering but also in other engineering fields. The panel's scope includes mechanics and structural engineering, and the behaviour, properties and durability of end products.

- Please also see related panels, particularly: Materials physics and applied photonics; Chemistry; Chemical and process engineering (e.g. separation of metals); and Robots, automation and production design (e.g. construction production and transportation).

Keywords

fracture; fatigue; mechanics; tribology; biomechanics; construction mechanics; geotechnics; soil mechanics; structural engineering; steelmaking; additive manufacturing; welding; alloys; metals; physical metallurgy; concrete, steel, composite and wood structures; manufacturing, properties, use and durability; bridges

Back to main page

RC26_29
Medical engineering

Scope

This panel covers research in **engineering** with a focus on the development of engineering principles and **methods** to be applied in medical research, for example methods to study, diagnose or treat medical conditions. NB: The scope includes biomedical optics and development of engineering and computational methods in neuroscience.

- Please also see related panels, particularly: Biotechnology, biomedical materials, developmental biology and stem cell technologies.

Keywords

technologies for medical imaging; physiological measurement technology; processing of biomedical images and signals; biomedical modelling and simulation

Back to main page

RC26_30
Neuroscience

Scope

The panel's scope includes research on the development, function, dysfunction and ageing of the nervous system. It also encompasses preclinical research related to models of nervous system diseases, the biological basis of cognitive processes and behaviour, and the biological basis of neurological and mental disorders.

- Please also see the related panel Medical engineering.

Keywords

neuroscience; neurobiology; neurophysiology; molecular and cellular neuroscience; neurogenetics; neuropharmacology; developmental neurobiology; circuits and systems neuroscience; neural basis of cognition including action and social interaction; nervous system function and dysfunction

Back to main page

RC26_31

One health, food sciences and animal sciences

Scope

The scope of this panel includes the One Health approach, integrating the health of people, animals and the environment.

- Applicants working on food systems are encouraged to explore the panel Environmental social science and human geography. For those in veterinary sciences, please refer to clinical panels. Likewise, applicants concentrating on technological research should explore the Atmospheric sciences and Chemical and process engineering panels.

Keywords

food sciences (incl. food microbiology, food safety, food chemistry, food technology); environmental health (incl. ecotoxicology, indoor air quality, pollution, WASH (Water, Sanitation, Health and Hygiene)); host-microbe interactions (incl. infectious diseases in humans and animals caused by pathogens, zoonosis, anti-infective treatments and prevention, antimicrobial resistance); animal sciences (incl. farm animals, animal production and nutrition, animal health and welfare)

Back to main page

RC26_32
Philosophy, theology and the study of religions

Scope

The scope of this panel covers all research areas in philosophy, theology and the study of religions. The proposed research questions and approaches can be historical, literary, theoretical, practical, applied or interdisciplinary, and connect to various philosophical, theological or religious traditions and worldviews. The panel also welcomes multidisciplinary applications that contribute to philosophical or theological research or the study of religions.

Keywords

ethics; epistemology; history of philosophy; logic; ontology and metaphysics; philosophy of language; philosophy of mind; philosophy of science; social and political philosophy; exegetics; church history; practical theology; systematic theology; study of religions

Back to main page

RC26_33
Physics of matter and light and quantum science

Scope

This panel covers research on the fundamental properties of matter and light and research on quantum physics and technologies from theory to applications. Theoretical and experimental approaches are both relevant to the panel, and the theoretical methods include analytical, numerical as well as statistical approaches.

- Please see also related panels, particularly: Materials physics and applied photonics; and Universe sciences and subatomic physics.

Keywords

atomic and molecular physics; condensed matter physics; mesoscopic quantum physics and quantum technologies; quantum fluids and quantum materials; topological matter; spintronics; magnetism and strongly correlated systems; superconductivity; quantum optics; fundamental optics and photonics; fundamental aspects of matter-light interaction; fusion plasma physics

Back to main page

RC26_34
Plant and forest sciences

Scope

The scope of this panel includes both basic and applied research on plants at different levels of biological complexity, from molecules through to ecosystems and their management. The following keywords in the context of plant and forest research are covered.

Keywords

agriculture; agronomy; biochemistry; biodiversity; biophysics; cell and molecular biology; conservation and sustainability; developmental biology; ecology; ecosystems and landscape ecology; evolutionary biology; forest dynamics; forest economics; forest management; genetics; photosynthesis; phylogenetics and systematics; physiology and ecophysiology; plant-microbe and plant-fungal interactions; plant virology; population biology; remote sensing/GIS/laser scanning

Back to main page

RC26_35
Politics and communication

Scope

This scope of this panel covers all research areas in political science, administrative sciences, international relations and media and communication studies.

- For applications in organisational communication with a strong business or management context, please also see the panel Economics, and business and management.
- For applications in governance, please also see the panel Law, rights and governance.
- For applications in health, welfare and wellbeing, please also see the panel Welfare, wellbeing and health.

Keywords

communication technologies; conflict; creative and cultural industries; datafication; democracy; digitalisation; elections; elites; foreign policy and diplomacy; games and play; gender; governance; interest groups; international or global institutions and cooperation; journalism; mediatisation; media culture; media and creative labour; media systems and media platforms; organisations; peace; political agency; political economy; political institutions; political participation; interpersonal, organisational, political or speech communication; public administration; public policy; public sphere; representation; security; social movements

Back to main page

RC26_36
Psychology, behaviour and learning

Scope

The panel covers psychology and education. In education, the focus is on learning and wellbeing.

- Please also see related panels, particularly: Education (applications in education); Linguistics and language studies (applications in psycholinguistics and neurolinguistics); Welfare, wellbeing and health (applications in health, welfare & wellbeing); and Sociology, demography and social work (applications in social psychology).

Keywords

attention and perception; memory; learning; emotions; personality; temperament; cognitive functions; individual development and life course; sexuality; social cognition; cognition and metacognition in learning; executive function; (self-)regulation; motivation; collaborative learning; self-efficacy; student-teacher interaction; learning difficulties; digital pedagogy and cognition; physical activity and learning; mental disorders; and occupational wellbeing and learning

psychology: developmental and educational psychology; health psychology; work and organisational psychology; psychotherapy; where applicable, systemic and cognitive neuroscience and social psychology; other possible fields

education: general education and teacher education; special education; early childhood education and preschool education, other possible fields

Back to main page

RC26_37
Robots, automation and production design

Scope

The panel covers engineering research on robots and autonomous systems as well as technological and methodological advances in the development of close-range remote sensing and radars (e.g. lidar scanning), applicable in a wide use context. The scope also includes mechatronics, manufacturing automation, production design, construction production and transportation. A typical research plan may use or develop AI tools or computations algorithms (e.g. robotic perception) but is strongly connected to a specific application and contains research on a complete functional system or hardware.

- Please see also related panels, particularly: Atmospheric sciences (e.g. lidar applications for aerosol and cloud observations); Data science, artificial intelligence and statistics (e.g. computer vision algorithms); Economics and business and management (e.g. industrial management and economic considerations); Human factors and technology design (e.g. human-robot interaction/collaboration); Earth systems (e.g. satellite remote sensing applications); and Materials physics and applied photonics (e.g. optical sensing and imaging).

Keywords

automation; control; robotics; mobile robotics; sensing; scanning; mapping; navigation; situational and dynamic awareness; positioning; autonomous vehicles; UAV; drone; marine technology; lidar scanning; photogrammetry; modelling of surroundings; monitoring and maintenance of buildings and infrastructures; construction production, transportation

Back to main page

RC26_38
Sociology, demography and social work

Scope

The panel's scope covers demography, sociology, social policy, social psychology and social work, and multidisciplinary studies contributing primarily to these research fields.

- For applications related to health, welfare and wellbeing and lifestyle, please also see the panel Welfare, wellbeing and health.
- Applications related to ethnographically oriented research, please also consider the panel Cultural studies and gender studies.
- Applications related to psychology, please also consider the panel Psychology, behaviour and learning.

Keywords

care; disability; discrimination; diversity; exclusion; family; gender; inequalities; life course; population dynamics; poverty; power; science and technology studies; social attitudes; social mobility; social influence; social integration; social structure; violence; welfare; work and employment

Back to main page

RC26_39
Universe sciences and subatomic physics

Scope

The panel covers all branches of astronomy, space science, and sub-atomic physics (i.e. particle and nuclear physics).

- Please see also the related panel Atmospheric sciences, which covers the upper atmosphere and ionosphere research.

Keywords

galactic and extragalactic astronomy; astrophysics and astrochemistry; planetary science (Solar System research and exoplanetary science); solar and space physics (including heliophysics, space weather, space plasma physics, magnetospheric and ionospheric physics); observational and theoretical cosmology; and particle and nuclear physics

Back to main page

RC26_40
Welfare, wellbeing and health

Scope

The panel includes multidisciplinary topics related to human welfare, wellbeing and health. The scope is wide, covering a range of themes on the influence of social factors on human health and its implications for human welfare.

- Please see also related panels, particularly: Clinical medicine; Lifestyle, life course and public health; Psychology, behaviour and learning; and Sociology, demography and social work.

Keywords

ageing and wellbeing; digitalisation in health and social services; eHealth and welfare; family and society; gerontology; health care systems; health economics and management; health policy and society; health service resources; health sociology; healthcare ethics; health inequalities; mental health and society; nursing science; occupational health; public health and social care; rehabilitation; rehabilitation; substance abuse

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