Profile Status: Published

Technology Request

Development of microfiber textile product

Summary

A Korean SME is engaged in manufacturing, distribution and trading of bedding.The company is looking for a company that can develop highly sensitive materials that can be designed to meet the conditions of fabric texture, appearance, and various lengths of pile fabrics.The company is open for commercial agreement with technical assistance, license agreement, technical cooperation agreement.

Creation Date	26 October 2017
Last Update	21 November 2017
Expiration Date	21 November 2018
Reference	TRKR20171025001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/fe9bffc2-ed0b-4bad-b535-45e226b35a56

Details

Description

The Korean SME is engaged in manufacturing, distribution, and trading of bedding.The company made bedding by Korean emotion senses with modern senses.The company mainly use the cloth made from traditional Korean fabrics.The company has grown into Environmentally Healthy Bedding Development a leading company.

The company wants to development of highly sensitive materials that can be designed for the conditions of fabric texture, appearance, various length, etc. of pile fabric for bridging both sides of a warp knitted fabrics. Currently, the commercially available Tricot products are used as files for autumn and winter, but their organization is fairly simple and fails to take advantage of unlimited application changes. Therefore, if there is an introduction that predicts changes in yarn, stretch, density, heat treatment and dyeing conditions that make up the warp knit fabric, we would like to apply it to the knit product. Acrylic blankets and brushed products that are already in use are not easy to remove or store and carry. However, Tricot's double-sided products are very lightweight, have excellent warmth and have excellent characteristics that do not come off the files.It is expected that it will be possible to expand the application to well-being type of bedside products.

The company is looking for a commercial agreement with technical assistance, license agreement, Technical cooperation agreement

Technical Specification or Expertise Sought

Tricot's double-sided products are very lightweight,have excellent warmth, and have excellent characteristics that do not fell out.

Keywords

Technology

03005007	Textile fibres
03005008	Weaving related to Textiles Technology
06001024	Medical Biomaterials

Market

09004003	Textiles (synthetic and natural)

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

Contact Person

Vera Lullo

Phone Number

+39 0516398090

Email

vera.lullo@aster.it

Open for EOI : Yes

Dissemination

Send to Sector Group

Textile and Fashion

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

0

Turnover

>500M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Client Country

South Korea

Partner Sought

Type and Role of Partner Sought

Type of partner sought
- SME, Universities, Research institution, and larger company

Specific area of activity of partner
- in ground safety inspection

Tasks to be performed by the partner sought
- Help on developing and manufacturing new products
- License agreement partner, can commercializing the product and hold right to distribute
- Research cooperation agreement (various designs for compact devices that can measure ground strength, further development of the technology)

Type of Partnership Considered

License agreement
Commercial agreement with technical assistance
Technical cooperation agreement

Attachments

Profile Status: Published

Technology Offer

Technology for video monitoring of vast areas that can be used for fire detection.

Summary

A Russian company specialized in the development of systems for monitoring vast territories and systems of computer vision has developed a technology for smoke detection at huge distances that is used for forest fire detection. Technologies of intelligent camera control allow quick detection and precise location of the fire. The company is looking for a partner for research and development of such systems. A company is ready to sign the license agreement.

Creation Date	19 December 2017
Last Update	21 March 2018
Expiration Date	22 March 2019
Reference	TORU20171219002
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/24c43f43-c0d3-465c-88ab-9ac42a780718

Details

Description

The problem of vast territories monitoring is actual for many spheres of human activity (monitoring of open spaces, airports, ports, and city squares) and especially in monitoring of nature territories, including forest fire detection. Nowadays there are several approaches to the problem: ground, aerial, and space observation. And only ground observation can provide continuous monitoring with minimal period. The approach offered by the company includes video cameras and special software that provides cameras control and automatic solving of monitoring and location tasks. It is preferable to place cameras at high-altitude objects because it allows viewing a larger territory. Using this approach is cheaper than aerial observation and provides more immediate response than space surveillance.
If compared to close analogues, realization of innovative technologies via software provides a range of advantages:
- Higher probability of detection (less possibility of missing a fire); - Less time is taken for detection (quicker response);
- More precise location of objects at long distances;
- Minimization of operation costs connected with using of communications infrastructure. The approach supposes a possibility to build systems with non-limited number of cameras covering any territory and providing a low possibility of false alert and high confidence in detecting. Now, well-developed are technologies of detecting fire at open spaces such as forest fires, temperate grassland (heath, prairie) fires, farmed lands, oil pipelines and wide open spaces fires.
For cooperation under the license agreement, the company is looking for organizations, universities, research and development institutes, with the aim to sell the technology.

Advantages and Innovations

The developed systems are based on unique and innovative technologies such as technology of tower slow oscillation control, technologies of adaptive optic location, technology of creating distributed video monitoring systems of the base of controlled cameras.
Together with unique technological base the technology has the following advantages: - Automation of monitoring and minimized human involvement in the process of fire detection by means of special algorithms of computer vision based on a huge database of fire visibility at long distances. - High precision of objects location determination owing to technologies of deformation correction for towers where cameras are placed. - Minimized use of communications infrastructure and as a result lower operating costs owing to information distributed processing technology. - High level of technical support for users allowed by VSaaS technology (VSaaS, video surveillance as a service). - High possibility of fire detection owing to technologies of adaptive optic territory location.

Stage of Development

Already on the market

IPR Status

Secret Know-how,Trade Marks

Comment Regarding IPR status

TM is protected in Russia, but plan to protect the trademark in the potential partners' Countries.

Profile Origin

Private (in-house) research

Keywords

Technology

01001001	Automation, Robotics Control Systems
01003012	Imaging, Image Processing, Pattern Recognition
01004007	GIS Geographical Information Systems

Market

01002003	Message forwarding, queuing and answering systems
02007007	Applications software

NACE

J.58.2	Software publishing
J.58.2.9	Other software publishing
J.62.0.1	Computer programming activities

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

Contact Person

Vera Lullo

Phone Number

+39 0516398090

Email

vera.lullo@aster.it

Open for EOI : Yes

Dissemination

Send to Sector Group

Creative Industries

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2010

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

Russia

Partner Sought

Type and Role of Partner Sought

Type: Research and Development Institutes, universities, small and medium enterprises, big transnational companies
Sphere of activity: research in environmental monitoring, computer video systems; development of video surveillance systems; development of GIS systems; system integrators; IT and video surveillance systems developers.
Role: using of the company's technologies for their own research and developments, technological products.

Type and Size of Partner Sought

SME 11-50,University,R&D Institution,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

License agreement

Attachments

Profile Status: Published

Technology Offer

Expertise offered in Internet of Things (IoT): development of communication protocols for wireless sensors, robot netwoks, RFID

Summary

A research team of a R&D center dedicated to computational sciences and applied mathematics offers its technical expertise in investigating solutions to enhance the programmability, the adaptability and the reachability of Future Ubiquitous Networks composed of RFID, wireless sensor and robot networks. It offers to industry and academia a collaboration under a research or a technical cooperation agreement and is interested in EU projects.

Creation Date	11 October 2016
Last Update	30 October 2017
Expiration Date	06 May 2018
Reference	TOFR20160811004
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/44dda756-049d-43fc-b500-50f0ec673d52

Details

Description

The French research team is part of a French R&D center dedicated to computational sciences and applied mathematics. The Institute is organized in project teams bringing together researchers with complementary skills to focus on specific scientific projects. With this open, agile model, it is able to explore original approaches with its partners in industry and academia. It transfers expertise and research results to companies (startups, SMEs and major multinationals) in fields as diverse as healthcare, transport, energy, communications, security and privacy protection, smart cities and the factory of the future.

In this line, the research team works in the field of the Internet of Things (IoT), on the Future Ubiquitous Networks (FUN) which are composed of RFID, wireless sensor networks and robot networks, , having limited resources in terms of storage and computing capacities and energy. The team works more particularly on:
- Developing communication protocols: making the networks heterogeneous, looking for solutions on how to make wireless sensor and actuator, and RFID networks work together and interact in a transparent and standard compliant way, enhancing communication taking into account all constraints.
- Self-organization of Future Ubiquitous Networks :
 >discovering the network
 >network structuring (clustering, DHT-based overlay, topology control)

- Activity scheduling :
 >sleep mode triggering
 >data sending
 >actor-actor coordination

The scientific team uses a specific methodology of testing its communication protocols: validating every solution through experimentation and learning for later enhancements. To fit realistic features, such algorithms should also be evaluated with regards to scalability and mobility.

The set of applications enabled through Future Ubiquitous Networks and IoT is very large. Among the most spread applications there are environment monitoring, understanding and protection.

Another field of application is exploration of hostile and/or unknown environments by a fleet of self-organizing robots that cooperate with RFID and sensors to ensure a continue monitoring afterwards.

IoT and Future Ubiquitous Networks can also play a key role in logistics and traceability by relying on the use of sensors or RFID technologies.

Finally, IoT and Future Ubiquitous Networks leverage a lot of applications in the Smart City concept, ranging from parking aid to better energy consumption, air quality monitoring or traffic fluidizing.

The French research team offers to collaborate under research or technical cooperation agreements with industry and academia. It is also looking to join consortia for EU funded projects.

Advantages and Innovations

- Joint project team of distinguished scientists from several specialized science institutions
- Part of a collaborative research program with innovative SMEs enhancing technology transfer
- Experience in funding projects (FP7 2013-2016 on Smart Cities)
- Experience working with the industry – from startups to multinationals + dedicated transfer engineers working on collaboration with industry
- Platforms and equipment available for testing include:
 o WSN430 node with 256 sensors, including 64 mobile nodes and radio interface in 2.4GHz
 o M3 node with 256 sensors, including 64 mobile on robots (mix of Wifibot and Turtlebot 2) and radio interface in 2.4GHz
 o 64 open host nodes allowing to test its own solutions and to take advantage of the monitoring and debugging tools of the platform
- Self organization of wireless sensors networks
- Activity Scheduling
- Radio Frequency Identification

Stage of Development

Under development/lab tested

IPR Status

Other

Profile Origin

Private (in-house) research

Keywords

Technology

01001001	Automation, Robotics Control Systems
01003	Information Processing & Systems, Workflow
01003014	Internet Technologies/Communication (Wireless, Bluetooth)
01003025	Internet of Things
01006013	Communications Protocols, Interoperability

Market

05007004	Monitoring equipment
07002	Retailing
08002004	Robotics
08006001	Process control and logistics

NACE

M.72.1.9	Other research and experimental development on natural sciences and engineering

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

Contact Person

Vera Lullo

Phone Number

+39 0516398090

Email

vera.lullo@aster.it

Open for EOI : Yes

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

1967

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
French

Client Country

France

Partner Sought

Type and Role of Partner Sought

Partners can be from the industry, ranging from startups to multinationals, as well as from academia active in merchandise, commerce, agriculture, telecommunications or environment.

They can have projects related to Future Ubiquitous Networks in a wide field of activity as IoT is applicable in areas ranging from health to smart cities, including:
- area, event or animal monitoring, understanding and protection;
- exploration of hostile and/or unknown environments;
- logistics and traceability;
- retail;
- applications in Smart Cities, ranging from parking aid to a better energy consumption going through air quality monitoring, traffic fluidizing etc.
- etc.

The French research group offers to collaborate under technical or research cooperation agreements. It is also interested in joining existing consortia for EU funded projects.

Type and Size of Partner Sought

SME 11-50,University,Inventor,R&D Institution,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Attachments