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Communication VEN210019CM0

Scientific proposal expression of interest "Functional Antimicrobial Surfaces Tuned by Femtosecond LAse PulseS (FASTFLAPS)"

As CEO of Yaskawa Italy, I am interested in representing an end-user organization for the implementation and results of the scientific proposal "Functional Antimicrobial Surfaces Tuned by Femtosecond LAse PulseS (FASTFLAPS)" submitted to the Call HORIZON-EIC-2021-PATHFINDEROPEN-01 and coordinated by Raithor Start Up Company.

Our Company produces and commercialize robots, drives and motors for many different applications on process automation. In these applications it is more and more frequent to have our motors and robots working in environments with a lot of dust, water and oil. A proper protection against these factors is key for the reliability of our systems.

Recognizing the scientific and technological importance of this project aimed at the development of specific nanostructured surfaces similar to those known in nature, particularly those that provide high functionality, resistance to physical and chemical factors, as well as bioresistance. The interest for our Company lies in the antimicrobial and anti-fouling properties of such surfaces. Bio-fouling is the attachment and accumulation of an organism or microorganism on a material. Bio-fouling is one of the causes of the decline in performance and quality of a structure system, especially structures that have a direct relationship with the waters where bio-fouling lives and moves. Among the many applications on Unmanned Underwater Systems or Vehicles, we can revolutionize the Impressed Current Anti Fouling (ICAF) system against micro-fouling or bacteria. Our Company will help this project to develop in the area of antimicrobial and anti-fouling protection devices. Meetings and discussions will be scheduled and held regularly, several times during the 36 months duration of the project.

Yaskawa Italia S.r.l.

Ing. Paolo Poletti
CEO