Scientific Report

First name / Family name	Fozia Mehboob
Nationality	Pakistani
Name of the *Host Organisation*	RISE SICS Vasteras
First Name / family name of the *Scientific Coordinator*	Mats Tallfors
Period of the fellowship	01/12/2019 to 01/03/2021

I – SCIENTIFIC ACTIVITY DURING YOUR FELLOWSHIP

In Post doc, research focus was on different industry-driven, R&D projects. These projects are sponsored by national level funding agencies.

1. Earlier Detection of defects from Battery Images during its production

In this project, the goal was to show that large amounts of images taken at battery production, can be used to form an algorithm that can detect if a battery is not mounted correctly by the assembling robots.

2. Faults detection from Diecasting Images

The target of this project was to develop automated quality control of die-cast and hot-pressed metal components, based on images. A method is designed for a computer to

automatically decide if the produced metal components does have defects or not, based on images.

II – PUBLICATION(S) DURING YOUR FELLOWSHIP

Keywords-based test categorization for Extra-Functional Properties in 2020 IEEE International Conference on Software Testing, Verification and Validation Workshops (ICSTW) **Published**

III – ATTENDED SEMINARS, WORKHOPS, CONFERENCES

No workshop or seminar. But attend above publication conference.

IV – RESEARCH EXCHANGE PROGRAMME (REP)

Research exchange program was carried out virtually from 15 February 2021 to 21 February 2021 with Dr. Ali Shariq Imran in NTNU Norway. During the collaboration, presented my work done. Dr Ali guided in some relevant research areas and we planned to have research publications. I am working on two research papers that we will soon submit for publishing.