Komunikacja i sterowanie dronem za pośrednictwem MATLABa

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### Subscriber odometrii

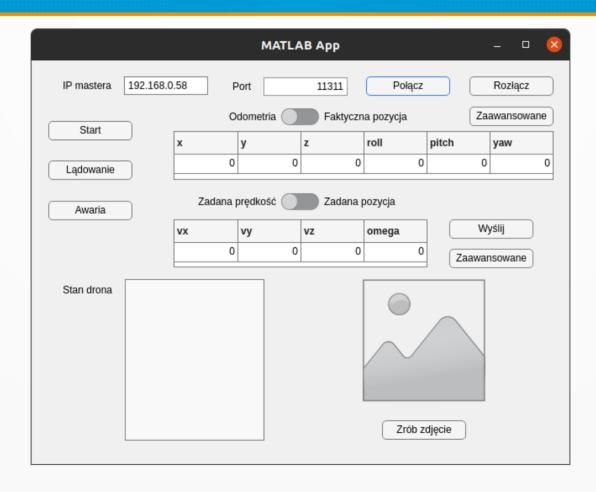
```
app.odometry_sub = rossubscriber('/bebop/odom', 'nav_msgs/Odometry', @(src, msg) odometry_callback(app, src, msg));
```

```
function odometry_callback(app, ~, message)
    % pozycja
    pos = [0 0 0];
    pos(1) = message.Pose.Pose.Position.X;
    pos(2) = message.Pose.Pose.Position.Y;
    pos(3) = message.Pose.Pose.Position.Z;
    % orientacja
    w = message.Pose.Pose.Orientation.W;
    x = message.Pose.Pose.Orientation.X;
    y = message.Pose.Pose.Orientation.Y;
    z = message.Pose.Pose.Orientation.Y;
    z = message.Pose.Pose.Orientation.Z;
    rot = quat2eul([w x y z]);

    odometry = [pos, rot];
    app.OdomUITable.Data = odometry;
end
```

# Pozycja z Gazebo

## GUI



#### Dziękuję za uwagę