```
function omega_r2 = r2axisangle(R)
  if norm(R - eye(3)) < 1e-3
      omega_r2 = [0;0;0];
else
      theta_axis = acos(0.5 * (trace(R) - 1));
      omega_hat = 1/(2*sin(theta_axis)) * (R - R');
      omega_hat = [omega_hat(3,2);
      omega_hat(1,3);
      omega_hat(2,1)];
      omega_r2 = omega_hat * theta_axis;
end
end</pre>
```