## Abstract:

Is showed a problem studied in cooperation with Professor Atsushi Tachikawa. We treat the regularity problem for minimizers

$$\mathsf{u}(\mathsf{x}):\, \Omega \subset \mathbf{R}^m \to \mathbf{R}^n$$

of quadratic and nonquadratic growth functional

 $\int \Omega A(x, u, Du) dx.$ 

About the dependence on the variable x is assumed only that  $A(\cdot, u, p)$  is in the class VMO, Vanishing Mean Oscillation class, as a function of x. Namely, is not assumed the continuity of A(x; u; p) with respect to x. Are considered both partial and global regularity of the minimizer u.