```
\lambda \in \Lambda
\lambda = 1
\lambda \in \Lambda
\min_{\substack{x \in X, y \in k}} F(x, y) \quad upperbel
s.t. \quad G(x, y) \le 0
y \in {}_{y \in Y} f(x, y)
s.t. \quad g(x, y) \le 0
                                                                                                  upper level
                                                                                                                                                                               . lower level\\
   (1)
```

 $R(\lambda) = \int f(u, f_{\lambda}(x)) dP(x, y)$