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* نویسنده مسئول: ۱۳۵۱-۲۲۴۷۷۸۳ فاکس: ۲۶۱-۲۲۴۴۴۲۹ فاکس: Email: hsalami@ut.ac.ir

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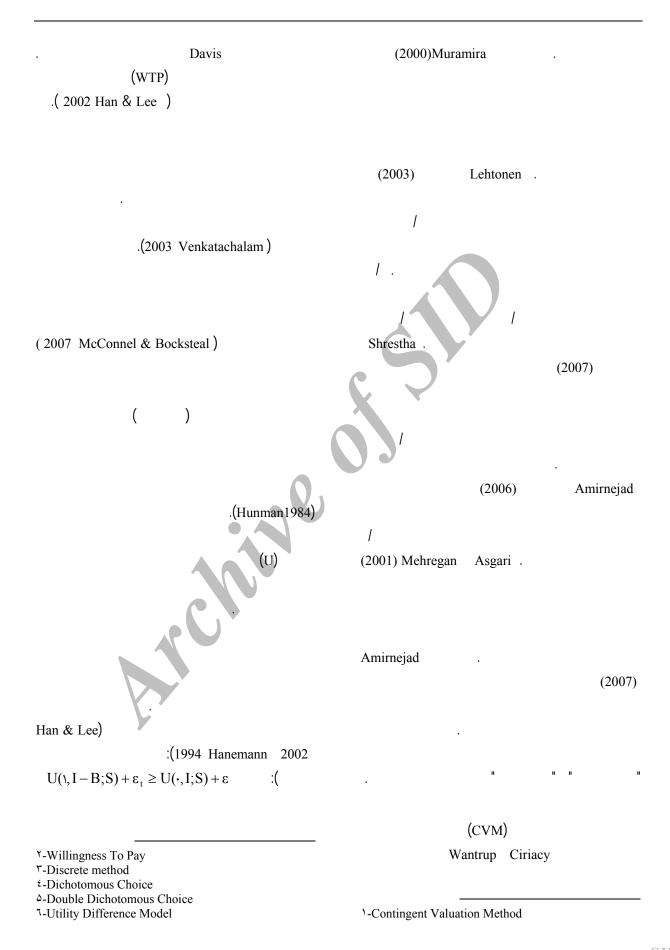
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[\]u00e4-Natural Resource and Watershed Management Organization of Gilan Y-_Deontologist Y-_Cosequentialist



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X
                                         P_{i}(Y=1)
                                                                                                                                        U
                              β
                                                                                                         В
                                                                                                                                      Ι.
                           P_i
                                                                                                                                     S .
                                           :(1984 Hanemann)
  P_i = F_{\eta}(\Delta U) = \frac{1}{1 + \exp(-\Delta U)}
                                                                                                                                                          \epsilon_{\scriptscriptstyle 1}
                                                                                                                 U(.)
 β
                                                F_{\eta}(\Delta U)
\gamma > 0 \quad \beta \le 0
                                                                                        S I
                                                                                                               .(2002 Han & Lee)
                  .(Judge, 1988)
                    (M)
                                                                                  \Delta U = U(\cdot, I - B; S) - U(\cdot, I; S) + (\varepsilon_1 - \varepsilon_0)
                                                                    ( )
  2002 Han & Lee)
                                              :(1994 Hanemann
                                                                                                                                              \Delta \textbf{U}
    E(WTP) = \int_{...}^{M} F_{\eta}(\Delta U) dB
                                                        E(WTP)
                                                           \alpha^*
                                                             :(
 X_{j}
                                                   α.
          \gamma_{\rm j}
                                     j
                                                                                             :(2002 Greene)
                                                                                        p_i(Y = 1) = \frac{1}{1 + \exp(-\beta X)}
                                                                                                                                                 :(
     i
                                                                       k
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 $\frac{\partial P_{i}}{\partial X_{k}} = \frac{e^{\Delta U}}{(1 + e^{\Delta U})^{\tau}} \beta_{K}$ K:(1998 Judge)
:(

$$\epsilon_{i} = \left[\frac{e^{\Delta U}}{\left(1 + e^{\Delta U}\right)^{\Upsilon}} \beta_{K}\right] \frac{X_{ik}}{P_{i}} \hspace{1cm} : ($$

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Bishop (1983)
            (1993) Kristrom (1990) Johnsen
McFadden
                    (1996) Ready
                                   (1994)
                     .(1996 Herriges)
                         Maple SHAZAM
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Percentage of right predictions = / ESTRELLA r-square = /				
			ER r-square = /	
MCFADDEN r-squ		Likelihood ratio test = /		
P-value= / * ** ***				

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- References
- Amirnejad, H. 2007. Estimating the Preservation Value of Golestan National Park of Iran by Using Individual's Willingness to Pay. Agricultural and Economic Journal, 1(3): 175-188. (In Persian)
- Amirnejad, H., S. Khalilian; M.H. Assareh and M. Ahmadian. 2006. Estimating the Existence Value of North Forest of Iran by Using a Contingent Valuation Method. Ecological Economics, 58:665-675.
- Asgari, A. and N. Mehregan. 2001. Estimating Visitors Willingness to Pay for Historical Cultural Heritage Using Contingent Valuation Method (CVM): Case Study of GANJ-NAMEH-Hamedan, Journal of Economic Research, 1(2): 93-115. (In Persian)
- Bishop, R.; C. Thomas; A. Heberlein and J.K. Mary. 1983. Contingent Valuation of Environmental Assets: Comparison with a Simulated Market. Natural Resources Journal, 23(3): 619-633.
- Bocksteal, N.E. and K.E. McConnell. 2007. Environmental and Natural Resource Valuation with Revealed Preferences (A Theoretical Guide to Empirical Models). Springer, Hardcover, 374 p.

- Ciriacy-Wantrup. S.V.1947: Capital Returns from Soil-conservation Practices. Journal of Farm Economics, 29(1): 1188–90.
- Davis, R, 1963. The Value of Outdoor Recreation: an Economic Study of the Marine Woods, PhD Thesis, Harvard University. 175 p.
- Greene, W.H. 2002. Econometric Analysis. Fifth edition, Prentice Hall, New York, 1075 p.
- Hadker, N.; S. Sharma; A. David and T.R. 1997. Willingness-to-Pay for Borivil National Park: Evidence from a Contingent Valuation. Ecological Economics, 21: 105-122.
- Hanemann, W.M. 1984. Welfare Evaluation in Contingent Valuation Experiments with Discrete Responses. American Journal of Agricultural Economics, 66:332-341.
- Hanemann, W.M. 1994. Valuing the Environment through Contingent Valuation. Journal of Economic Perspectives, 8(4): 19-43.
- Herriges, J.; A. Jason and F. Shogren. 1996. Starting Point Bias in Dichotomous Choice Valuation with Follow-Up Questioning. Journal of Environmental Economic and Management, 30: 112-131.
- Johnson, R.L.; N.S. Bregenzer and B. Shelby. 1990. Contingent Valuation Question Formats: Dichotomous Choice versus Open Ended Responses. In: Economic Valuation of Natural Resources, R.L. Journal and G.V. Johnson, eds., Boulder, Boulder, Colorado, West view Press, 204 p.
- Judge, G.G.; R.C. Hill; W.E. Griffithes; H. Lutkepohl and T.C. Lee. 1988. The Theory and Practice of Econometrics. 2nd edition, Wiley, New York. USA, 1064 p.
- Kristrom, B. 1993. Comparing Continuous and Discrete Contingent Valuation Question. Environmental and Resource Economics, 3(1): 63-71.
- Lee, C. and S. Han. 2002. Estimating the Use and Preservation Values of National Parks Tourism Resources Using a Contingent Valuation Method. Tourism Management, 23: 531-540.
- Lehtonen, E.; J. Kuuluvainen; E. Pouta; M. Rekola and C. Li. 2003. Non-Market Benefits of Forest Conservation in Southern Finland. Environmental Science and Policy, 6: 195-204.
- McFadden, D. 1994. Contingent Valuation and Social Choice. American Journal of Agricultural Economics, 76: 689-708.
- Muramira, T.E. 2000. Valuing the Losses Caused to Mabira Forest by Hydropower Development in Uganda. Special issue on Valuation of Forest Resources in East Africa, Innovation, 8(2):28-30.
- Natural Resource and Watershed Management Organization of Gilan. 2008. Information & Data Center. (In Persian)
- Ready, R.; C. Jean; C. Buzby and D. Hu. 1996. Differences Between Continuous When Respondents are Ambivalent. Journal of Environmental Economics and Management, 29: 181-196.
- Shrestha, R.K.; T.V. Stein and J. Clark. 2007. Valuing Nature-Based Recreation in Public Natural Reads of the Apalachicola River Region, Florida, Journal of Environmental Management, 85: 977–985.
- -Statistical Center of Iran. 2007. Population and Settlement Census for year 2006 http://www.amar.org.ir/default-404.aspx. (In Persian)
- Venkatachalam, L. 2003. The Contingent Valuation Method: a Review. Environmental Impact Assessment Review, 24: 89-124.

Estimation of Preservation Value of Anzali International Wetland Based on Deontological Pointview

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Abstract

Because of national and international importance of the Anzali international wetland, this study attempts to determine the preservation value and estimate willingness to pay (WTP) by Iranian Households for preserving this wetland, using contingent valuation method. A logit model was employed with maximum likelihood estimation procedure. Results showed, education level of householder, informative knowledge of households, importance of environment, gender, urbanization, number of visits and ethical attitudes are factors that affecting willingness to pay (WTP) for wetland preservation. Based on the estimated parameters, the monthly WTP of the deontologist and consequentialist households are estimated to be 18811.87 and 14219.06 Rials, respectively. In addition, results indicate that while the level of WTP increases, the difference between WTP of these two households groups also increase. Moreover, the annual preservation value per hectare of the wetland is estimated to be 17267.77 and 13051.95 Rials, for the two groups of Iranian households respectively.

Keyword: Preservation Value, Deontologist, Cosequentialists, Willingness to Pay, Contingent Valuation, Anzali International Wetland

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