
(SMCE)

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(Karam, 2005)

(SMCE)

(GIS)

(Lim & Mcaleer, 2005)

(Roudgarmi *et al.*, 2007)

- (WLC)

(Malczewski, 1999)

(Ramsar Convention Secretariat, 2008)

(Asadolahi, 2010)

(Turner *et al.*, 2000)

-

(Bacon, 1987)

(Majnounian, 2000)

¹ Spatial analysis

² Spatial Multi Criteria Evaluation (SMCE)

³ Geographical Information System

⁴ Weighted Liner Combination (WLC)

(Majnounian, 2000)

(IBA)

Nouri

(2007) Norouzi

(2006) Ghaemi

(Kiabi *et al.*, 2004)

O

(2010) Yarali Mafi

(Ramsar Convention Secretariat, 2007)

()

(2009) Sepasi

()

(Haddadinia, 2009)

(Amirifar, 2010)

(Ardacani, 2008)

Aminu (2001) Laghaie Shakeri
(2007)

(Mafi & Yarali, 2010)

GIS SMCE

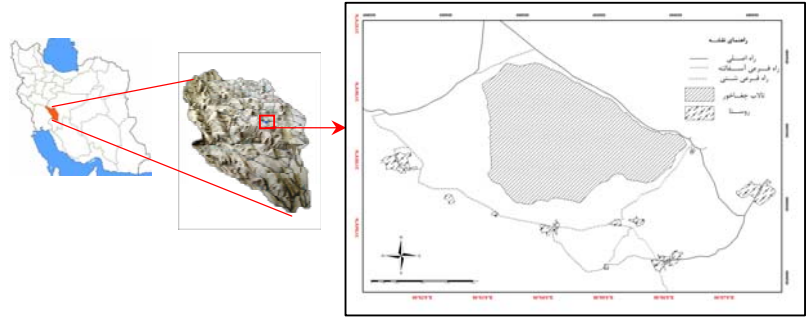
° ' " ° ' "
° ' " ° ' "

()

² International Bird Area (IBA)

¹ Johor

...



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(WTO/UNEP/IUCN, 1992)

(AHP)

(Sepasi, 2009; Haddadinia,

2009)

(2001)

Brown

(2007)

Nouri

Bhattacharya

(2002)

Kitsiou

(2004) Kumari

(Dunham, 1998)

(2001) Fletcher

(Makhdoum, 2002)

Ardacani

(2008)

¹ Delphi method

² Analytical Hierarchy Process (AHP)

¹EC

.(Herath, 2004)

Danehkar)

:(& Haddadinia, 2010

n= ()

$x_i =$

$$= \frac{10}{\sum x_i}$$

$$(y_i) = \frac{10}{\sum x_i} \times x_i$$

$$(z_i) = y_i \times n$$

A :

$$= \frac{\sum z_i}{A} = \frac{\sum z_i}{140} \times 100$$

N:

$$= \frac{\sum (x_i \times n)}{N}$$

EC

EC

¹ Expert Choice
² Paired comparison

()

ArcGIS 9.3

WLC

A_i

: (Malczewski, 1999; Karam, 2005)

()

$$A_i = \sum_j W_j x_{ij}$$

i : x_{ij} W_j
: A_i j

()

()

EC

/

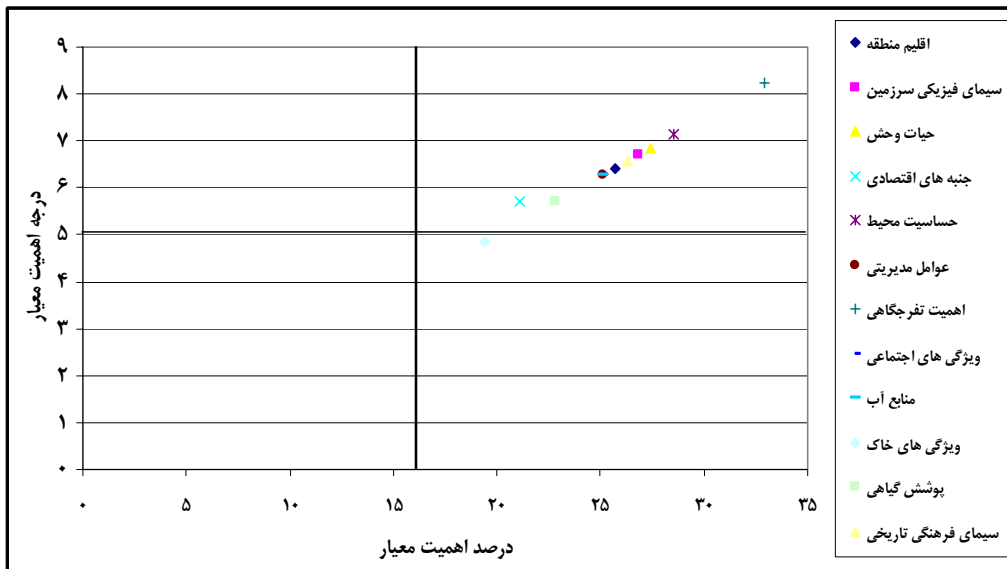
$$E_i = (0/750 W) + (0/250 MF)$$

/ / /
/ / / / / / /
()

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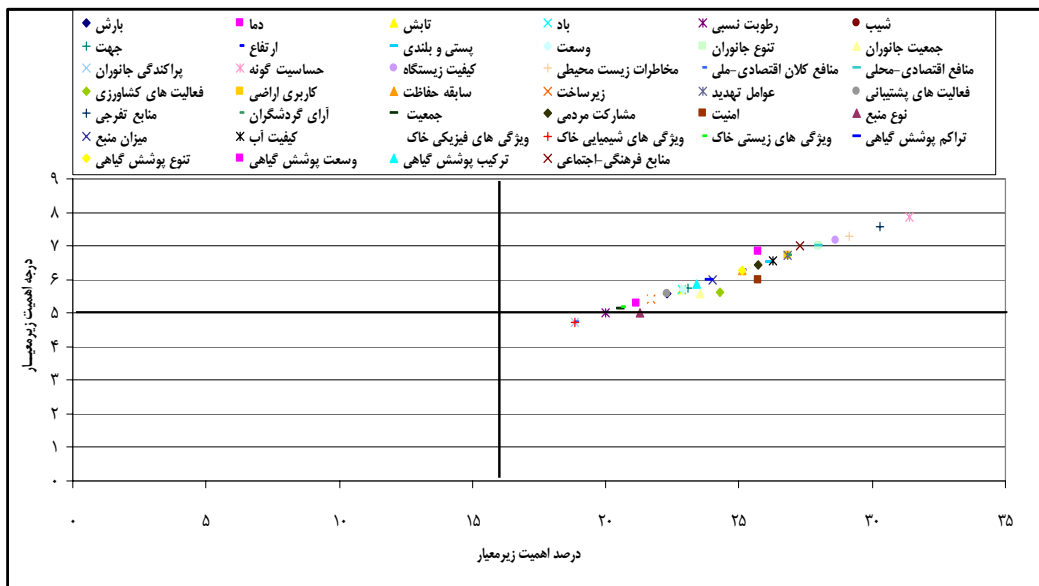
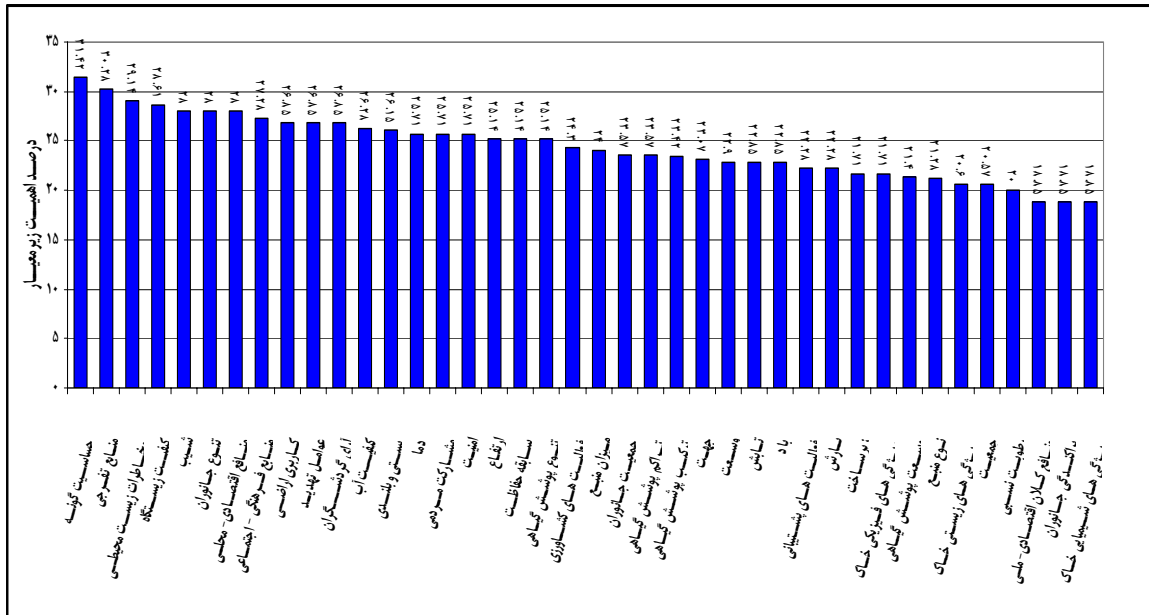
$$E_i = (0/183 lc) + (0/176 W) + (0/148 ES) + (0/123 MF) + (0/110 RI) + (0/100 EA) + (0/047 PC) + (0/47 SC) + (0/43 WR) + (0/24 Sch)$$

- :w :lc
:RI :MF :ES
:PC :EA
:Sch :WR :SC



(/ %)

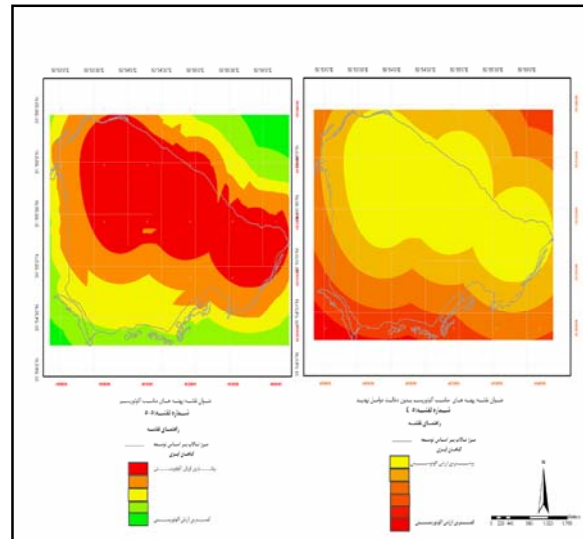
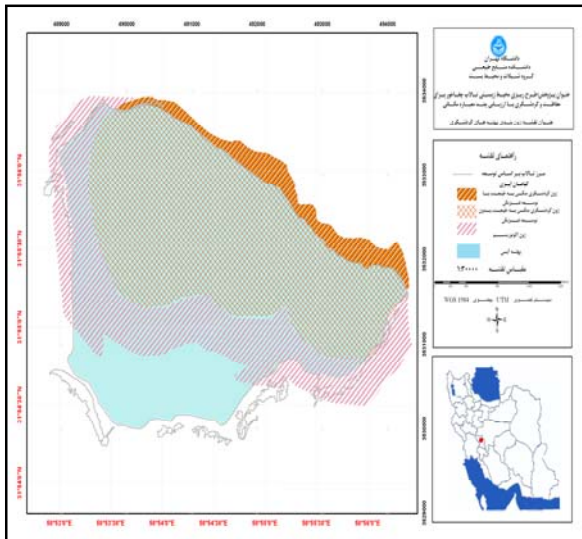
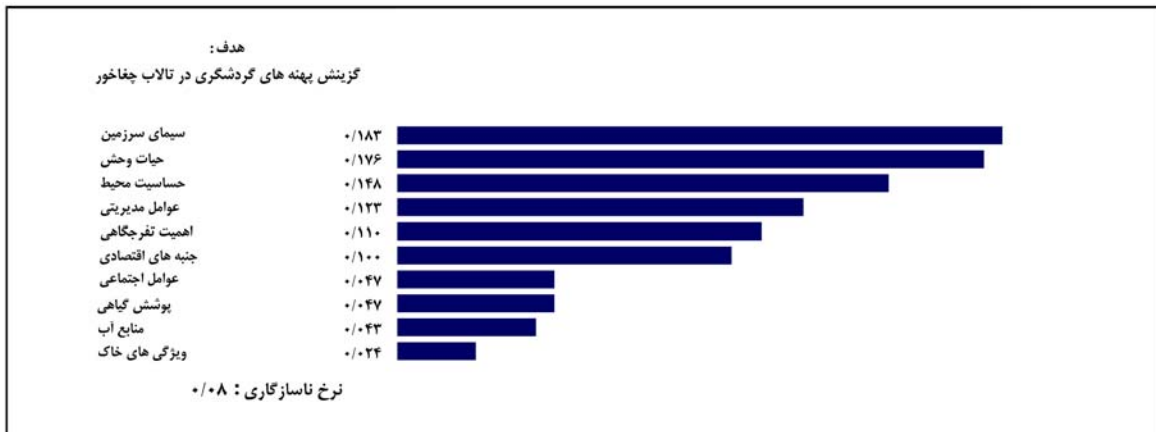
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Sepasi,)

(2009; Sharifi, 2009

Karam (2008) Ardacani (2009) Sepasi

(2005)

(2009) Sharifi (2009) Sepasi

(2009) Sepasi (2008) Ardacani
Aminu (2009) Haddadinia
(2007)

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Nature Based Tourism Management Planning of Choghakhor Wetland by Spatial Multi Criteria Evaluation (SMCE)

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Abstract

The natural beauty as well as the diversity of animal and plant life in many wetlands makes them ideal locations for tourists. It is essential to preserve wetlands in the extensive range of human activities to obtain sustainable wetlands. Management planning process is a mechanism for achieve this purpose. In this study, recreational management planning with Weighted Linear Combination (WLC) has implemented on Choghakhor wetland in Charmahal-O-bakhtiari province. Following steps were performed: 1) defining objectives 2) identifying protective criteria 3) choosing criteria using Delphi method 4) weighting and ranking criteria using Analytical Hierarchy Process (AHP) 5) mapping indicators and in result, selecting recreational zones. According to the Delphi questionnaire results, species sensitivity sub-criteria from the wildlife main criteria obtained a maximum percentage of importance. The result of AHP process showed that landscape was the most important criteria. Finally, considering Choghakhor wetland boundary on the basis of macrophytes' expansion; ecotourism zone, natural based tourism dependent on physical development and natural based tourism independent on physical development, were identified as recreational zones.

Keywords: Nature tourism, Spatial multi criteria evaluation, Analytical hierarchy process, Zoning, Choghakhor wetland, Wetland management