

# Table of Contents

Volume 62, Issue 7 — July 2022

---

## Research Articles

---

1.

### **Image Processing For 5 Dof Robot Arm Using Artificial Neural Networks**

Emregül ERSAN, Ayşe AK

*Department of Robotics, Middle East Technical University, Turkey*

*Keywords: Image processing, robot control, Artificial Neural Network, visual servoing*

---

2.

### **Road Network Management System: Comprehensive Overview of Innovative Approach to Pavement Management**

Jan Mikolaj, Zsolt Benko, Lubomir Pepucha, Lubos Remek

*Department of Civil Engineering, University of Technology, Slovakia*

*Keywords: Pavement Management System, Maintenance Repair & Rehabilitation, Pavement Performance, Life Cycle Cost Analysis, Optimization*

---

3.

### **THE EXPLORATION OF A NEW GENERATOR OF ALKALINE HYDROGEN PEROXIDE APPLIED IN PAPER INDUSTRY**

Junbo Zhou, Wenjia Huang, Jianfeng Yang, Youchen Zhang and Wenbin Liu

*Department of Chemical Engineering, Zhejiang University, China*

*Keywords: Hydrogen peroxide; Chlorine dioxide; Wood pulp; Pulp bleaching*

---

4.

## **The Effects of Egg Shape Index and Weight on the Hatching Performance of the Japanese Quail**

Atilla Taskin, Ufuk Karadavut, Isa Coskun

*Department of Animal Science, University of Ankara, Turkey*

*Keywords: Japanese quail, egg characteristics, incubation, fertility*

---

**5.**

### **Some Remarks on the Average Cost Minimization Problem**

R.Enkhbat, N.Tungalag, A.S.Strekalovsky

*Department of Mathematics, National University of Mongolia, Mongolia*

*Keywords: cost minimization, pseudoconvex function, \nglobal minimizer, bisection method, algorithm*

---

**6.**

### **Effect of salinity on morphological and biochemical parameters on rice germplasm cultivated under saline environment**

Ashu Singh, RS Sengar

*Department of Agricultural Sciences, Punjab Agricultural University, India*

*Keywords: Rice, germplasm, salinity, chlorophyll, abiotic stress, aromatic*

---

**7.**

### **Circulating miR-122 and miR-221 in serum as potential markers for hepatocellular carcinoma diagnosis**

Li-na Xu , Dong-feng Huang, Li-na Zhang, Feng Li, Qun Wei , Guo-xiong Zhou, Hong Zhan

*Department of Biochemistry, Fudan University, China*

*Keywords: Hepatocellular carcinoma [HCC] serum [miR-122] miR-221] combination diagnosis*

---

---

**Cithara Journal**

Published by Cithara Journal

<https://cithara-essays.com>