



Table of Contents

No.	Title	Page
1	The Behavior of Single Under-Reamed Piles under Compression Load in Clay - Numerical Study <i>Ahmed M. Nasr, W. R. Azzam, and Ibrahim S. Harran</i>	1
2	Flexural Behaviour of Two-Way Slabs Reinforced using Welded Wire Mesh <i>Rasha T.S. Mabrouk, El-Sayed S. Ewida, Nasser El-Shafey, and Akram M. Torkey</i>	8
3	كيف تدعم المدينة التفاعلية المعتمدة علي الذكاء الاصطناعي مرونة المدينة؟ How Artificial Intelligence-based Interactive City support City Resilience? <i>Khaled Salah Abdelmagid</i>	25
4	Strengthening of Reinforced Concrete Short Columns using Ferrocement under Axial Loading <i>Rasha T. S. Mabrouk, Mohamed Awad, Nada Abdelkader, and Magdy E. Kassem</i>	32
5	Machine Learning Algorithms to Classify Water Levels for Smart Irrigation Systems <i>Tahani M Allam, Shrouk Ezzeldin Ali, and Elsayed A. Sallam</i>	49
6	An Innovative Sustainable Approach in the Manufacturing of Recycled Brick Mixture for Buildings <i>Mohamed Abohelal, Walaa Nour, Ingy Eldarwish, and Hosny Dewer</i>	54
7	A CNN-LSTM-based Deep Learning Approach for Driver Drowsiness Prediction <i>Mohamed W. Gomaa, Rasha O. Mahmoud, and Amany M. Sarhan</i>	59
8	Behaviour of Encased Stone Columns in Soft Clay <i>Mohamed A. Sakr, W. R. Azzam, and Mona K. Mohamed</i>	71
9	Analytical Study of Creeping Flow through Porous Media Using Stress-Jump Condition <i>Marwa Elbehairy, Yasser Gamiel, S.T. Assar, and M. Kamel El Sayed</i>	76
10	DbSWPT: A Novel Distance-based Switch for Efficient Wireless Power Transfer in Battery-less Wireless Capsule Endoscopy <i>Marwa Sabry, Hussein Seleem, and Amira S. Ashour</i>	82



11	أسلوب الفرش في التصميم الداخلي ما بين الثابت والمتحرك لترشيد النفقات The Style of Brushes in Interior Design Between Fixed and Moving to Reduce Expenses <i>Kamal mahmoud kamal mohamed elgabalawy</i>	91
12	Shear Strength of Reinforced Concrete Beams with Compression Zone Confinement within the Shear Span <i>M A Elnaggar, M S Shoukry, and Y M ELkatt</i>	103
13	Optimal Design of Switched Reluctance Motor Using Genetic Algorithm <i>Mohamed Afifi, Mohamed K. El-nemr, and Ahmed M. Omara</i>	113
14	An Efficient Authentication Protocol Based on Chebyshev Chaotic Map for Intelligent Transportation <i>Nermeen M. Abdal-ghafour, Mohamed E. Nasr, and Roayat I. Abdelfatah</i>	120
15	CFD Comparative Study of Design and Performance of Shell-and-tube Heat Exchangers with Different Configurations <i>Heba Roushdy Mohamed Abdelhamid, Ayman Ibrahim Bakry, and Hagar Alm ElDin Mohamad</i>	134
16	Seismic Resistance of RC Corner Eccentric Beam Column Sub-assemblages <i>Sabry Fayed, Ahmed G. Asran, Hassan H. EL-Esnawi, and Ahmed Badr el-din</i>	149
17	A Review on Comparative Performance of Shell-and-tube Heat Exchangers with Various Design Configurations <i>Heba Roushdy Mohamed Abdelhamid, Ayman Ibrahim Bakry, and Hagar Alm ElDin Mohamad</i>	159