No.	Contents:	Page No.
1	Prediction of MRR in Electrical Discharge Machining Process Using Artificial Neural Network Model Dr. Shukry H. Aghdeab Production Engineering and Metallurgy Department, University of Technology/Baghdad. Iraq Asst. lecturer Safaa kadhim Ghazi Production Engineering and Metallurgy Department, University of Technology/Baghdad. Iraq Asst. lecturer Mostafa Adel Abdullah Production Engineering and Metallurgy Department, University of Technology/Baghdad. Iraq	1-10
2	Effect of Cu-Al Proportions in Smart (Cu-Al-Ni) Alloy for Best Mechanical properties by Using Artificial Intelligent Asst. prof. Dr Ahmed Abdulrasool Alkhafaji College of Engineering/University of Baghdad / Mechanical Engineering. M.Sc. Bassam Salman Darweesh Mechanical Engineering/ College of Engineering/ University of Baghdad	11-22
3	Chromium (III) removal from aqueous solution applying bulk liquid membrane using tri-n-butyl phosphate (TBP) as a mobile carrier Prof. Dr. Ahmed A. Mohammed Environmental Engineering Department, University of Baghdad \ Iraq. Asst. lecturer. Ammar A. Saoud Environmental Engineering Department, University of Baghdad, Iraq.	23-35
4	Manufacturing Cell Formation Using Genetic Algorithm Technique Prof. Dr. Hussein Salem Ketan Engineering College-Baghdad University Leena Mahdi Jaber Engineering College-Baghdad University	36-52
5	Detecting the Changes of AL-Hawizeh Marshland and Surrounding Areas Using GIS and Remote Sensing Techniques Assistant Lecturer Zahraa Ezzulddin Hussein College of Engineering-University of Baghdad Asst. Lecturer Raghad Hadi Hasan College of Engineering-University of Baghdad Nadia Ahmed Aziz Ministry of Since and Technology / directorate of space and communication	53-63
6	Probability Analysis of Embankments Stability Constructed on Stone Columns under Seismic Load Asst. lecturer Ahmed S. Jawad University of Baghdad /College of Engineering - Civil Eng. Dept.	64-80
7	Separation of Kerosene from water by using a locally Produced Biopolymer from Agricultural Waste Asst. Prof. Dr. Hayder M. Abdul-Hameed Department of Environmental Engineering-University of Baghdad Seemaa B. Abdulmaged Department of Environmental Engineering-University of Baghdad	81-92
8	Comparative Study on Experimental Behavior of R.C. Inverted Dapped-End Girders with Openings Strengthened by Vertical Normal Bolts	93-121

	Asst. Professor Hadi Nasir Ghadhban Al-Maliki	
	AL-Mustansiriya University	
	lecturer Ahmad Jabber Hussain	
	Baghdad University	
	Asst. lecturer Jasim Jaralah Fahad	
	AL-Mustansiriya University	
	Treatment of Sulfate in Sand by Using Magnetic Water Process Dr. Suhair K. Al-Hubboubi	
9	Building Research Directorate\ Ministry of Construction and Housing	122-131
	Asst. Prof. Dr. Zena K. Abbas	
	Baghdad University-Civil Engineering Department	
	Performance of zero-valent iron barrier through the migration of lead-	
	contaminated groundwater	132-144
10	Prof.Dr. Ayad Abdulhamza Faisal	
	Department of Environmental\ Engineering-University of Baghdad	132-177
	Rawaa Jaffar Mohammed	
	Department of Environmental\ Engineering-University of Baghdad	
	Matching Assessment of Road Network Objects of Volunteered	
	Geographic Information	
11	Dr. Maythm Al-Bakri	145-159
11	Department of Surveying College of Engineering\ University of Baghdad	
	Zuhair Yahya Sfoog	
	Department of Surveying College of Engineering\ University of Baghdad	
	Assessment of medical solid waste generation rates for teaching	
	hospitals in Baghdad city	160-169
12	Dr. Sura Kareem Ali	
12	Engineering college – Baghdad University	100-107
	Duaa Tawfeeq Jasim	
	M.Sc. Student\ Engineering college – Baghdad University	
	Vibration Control of Clamped Beam Affected by Dynamic Load With	
	Electromagnetic Actuator	
! i	Electromagnetic Actuator Salah Haji Abiduan	
13	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University	170-182
13	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir	170-182
13	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University	170-182
13	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud	170-182
13	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University	170-182
13	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Control of Congestion Effects in Wireless Sensor Network with Mobile	170-182
	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Control of Congestion Effects in Wireless Sensor Network with Mobile Sink Node Based on Wavelet Neural Network	
13	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Control of Congestion Effects in Wireless Sensor Network with Mobile Sink Node Based on Wavelet Neural Network Assist. Prof. Dr. Nadia Adnan Shiltagh Al-Jamali	170-182 183-194
	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Control of Congestion Effects in Wireless Sensor Network with Mobile Sink Node Based on Wavelet Neural Network Assist. Prof. Dr. Nadia Adnan Shiltagh Al-Jamali University of Baghdad /Computer Engineering	
	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Control of Congestion Effects in Wireless Sensor Network with Mobile Sink Node Based on Wavelet Neural Network Assist. Prof. Dr. Nadia Adnan Shiltagh Al-Jamali University of Baghdad /Computer Engineering Nariman Riyadh Mohammed Ali Al-Tahan	
	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Control of Congestion Effects in Wireless Sensor Network with Mobile Sink Node Based on Wavelet Neural Network Assist. Prof. Dr. Nadia Adnan Shiltagh Al-Jamali University of Baghdad /Computer Engineering Nariman Riyadh Mohammed Ali Al-Tahan University of Baghdad /Computer Engineering	
	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Control of Congestion Effects in Wireless Sensor Network with Mobile Sink Node Based on Wavelet Neural Network Assist. Prof. Dr. Nadia Adnan Shiltagh Al-Jamali University of Baghdad /Computer Engineering Nariman Riyadh Mohammed Ali Al-Tahan University of Baghdad /Computer Engineering The effect of aggregate gradation and asphalt type on Marshall	
14	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Control of Congestion Effects in Wireless Sensor Network with Mobile Sink Node Based on Wavelet Neural Network Assist. Prof. Dr. Nadia Adnan Shiltagh Al-Jamali University of Baghdad /Computer Engineering Nariman Riyadh Mohammed Ali Al-Tahan University of Baghdad /Computer Engineering The effect of aggregate gradation and asphalt type on Marshall Properties and permanent deformation parameters of asphalt concrete	183-194
	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Control of Congestion Effects in Wireless Sensor Network with Mobile Sink Node Based on Wavelet Neural Network Assist. Prof. Dr. Nadia Adnan Shiltagh Al-Jamali University of Baghdad /Computer Engineering Nariman Riyadh Mohammed Ali Al-Tahan University of Baghdad /Computer Engineering The effect of aggregate gradation and asphalt type on Marshall Properties and permanent deformation parameters of asphalt concrete mixes	
14	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Control of Congestion Effects in Wireless Sensor Network with Mobile Sink Node Based on Wavelet Neural Network Assist. Prof. Dr. Nadia Adnan Shiltagh Al-Jamali University of Baghdad /Computer Engineering Nariman Riyadh Mohammed Ali Al-Tahan University of Baghdad /Computer Engineering The effect of aggregate gradation and asphalt type on Marshall Properties and permanent deformation parameters of asphalt concrete mixes Assistant lecturer Aliaa Faleh Al.ani	183-194
14	Salah Haji Abiduan Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Hayder Sabah Abd Al-Amir Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Wajdi Sadik Aboud Department of Mechanical Engineering\ Institute of Technology - Middle Technical University Control of Congestion Effects in Wireless Sensor Network with Mobile Sink Node Based on Wavelet Neural Network Assist. Prof. Dr. Nadia Adnan Shiltagh Al-Jamali University of Baghdad /Computer Engineering Nariman Riyadh Mohammed Ali Al-Tahan University of Baghdad /Computer Engineering The effect of aggregate gradation and asphalt type on Marshall Properties and permanent deformation parameters of asphalt concrete mixes	183-194

	Asst. Lec. Aseel Jameel Haleel			
	Department of Production Engineering and Metallurgy/University of Technology			
	Rosul Hussein			
	Department of Production Engineering and Metallurgy/University of Technology			
	Farah Abd Alkareem			
	Department of Production Engineering and Metallurgy/University of Technology			
	Seismic Response of High Rise Steel Buildings Including Second-Order			
	Effects			
17	Lecturere Dr. Rafaa M. Abbas	226-236		
	Civil Engineering Department College of engineering-University of Baghdad			
	Anas N. Hassoni			
	M. Sc., Civil Engineering Department College of engineering-University of Baghdad			
	Index			