

College of Engineering Published Faculty Research: 2018 to Present

2018

- **Journal:** Hegab, H.A.; Darras, B.; Kishawy, H.A. "[Towards sustainability assessment of machining processes](#)," Journal of Cleaner Production, Vol. 170, p.694-703, Jan 2018.
Sustainable Development Goals (2023): [SDG 9](#) | [SDG 12](#)
- **Conference Proceeding:** Hegab, H.; Darras, B.; Kishawy, H.A. "[Sustainability Assessment of Machining with Nano-Cutting Fluids](#)," 46th SME North American Manufacturing Research Conference, NAMRC 46, Texas, USA, Vol. 26, p.245-254, Jan 2018.
Publication is among the top 5% of journals indexed in Scopus
Sustainable Development Goals (2023): [SDG 12](#)
- **Journal:** Akhavan-Rezai, E.; Shaaban, M.F.; El-Saadany, E.F.; Karray, F. "[New EMS to incorporate smart parking lots into demand response](#)," IEEE Transactions on Smart Grid, Vol. 9(2), p.1376-1386, Jan 2018.
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- **Journal:** Zhai, R.; Chen, Y.; Liu, H.; Wu, H.; Yang, Y.; Hamdan, M.O. "[Optimal Design Method of a Hybrid CSP-PV Plant Based on Genetic Algorithm Considering the Operation Strategy](#)," International Journal of Photoenergy, Vol. 2018, Jan 2018.
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- **Journal:** Awad, M.I.; Hassan, N.M. "[Joint decisions of machining process parameters setting and lot-size determination with environmental and quality cost consideration](#)," Journal of Manufacturing Systems, Vol. 46, p.79-92, Jan 2018.
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- **Conference Proceeding:** Qiu, X.; Aidagulov, G.; Ghommem, M.; Abbad, M. "[Experimental investigation of radial and linear acid injection into carbonates for well stimulation operations](#)," Society of Petroleum Engineers - SPE Kingdom of Saudi Arabia Annual Technical Symposium and Exhibition 2018, SATS 2018, Jan 2018.
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- **Book:** Bai, R.G.; Sabouni, R.; Hussein, G. "[Green nanotechnology-A road map to safer nanomaterials](#)," Applications of Nanomaterials: Advances and Key Technologies, p.133-159, Jan 2018.
- **Book Series:** Snook, C.; Hoang, T.S.; Dghyam, D.; Butler, M.; Fischer, T.; Schlick, R.; Wang, K. "[Behaviour-driven formal model development](#)," Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Vol. 11232, p.21-36, Jan 2018.
- **Journal:** Ahmed, S.E.; Awad, N.; Paul, V.; Moussa, H.G.; Hussein, G.A. "[Improving the efficacy of anticancer drugs via encapsulation and acoustic release](#)," Current Topics in Medicinal Chemistry, Vol. 18(10), p.857-880, Jan 2018.
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- **Book Series:** Dghaym, D.; Poppleton, M.; Snook, C. "[Diagram-led formal modelling using iUML-B for hybrid ERTMS level 3](#)," Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Vol. 10817, p.338-352, Jan 2018.
- **Journal:** Adib, A.; Dhaouadi, R. "[Performance analysis of regenerative braking in permanent magnet synchronous motor drives](#)," Advances in Science, Technology and Engineering Systems, Vol. 3(1), p.460-466, Jan 2018.
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- **Journal:** Abu-Nabah, B.A.; ElSoussi, A.O.; Al Alami, A.E.K. "[Virtual laser vision sensor environment assessment for surface profiling applications](#)," Measurement: Journal of the International Measurement Confederation, Vol. 113, p.148-160, Jan 2018.
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- **Journal:** Hijazi, H.H.; Harvey, H.L.; Alyahya, M.S.; Alshraideh, H.A.; Al Abdi, R.M.; Parahoo, S.K. "[The impact of applying quality management practices on patient centeredness in jordanian public hospitals: Results of predictive](#)

modeling," Inquiry (United States), Vol. 55, Jan 2018.

- **Journal:** Satti, M.B.; Hasan, A.; Ahmad, M.I. "**A new multilevel inverter topology for grid-connected photovoltaic systems**," International Journal of Photoenergy, Vol. 2018, Jan 2018.
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- **Journal:** Graa, M.; Nejlaoui, M.; Houidi, A.; Affi, Z.; Romdhane, L. "**Modeling and control of rail vehicle suspensions: A comparative study based on the passenger comfort**," Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Vol. 232(2), p.260-274, Jan 2018.
- **Journal:** Hamdan, B.; Lafi, S.; Hassan, N.M. "**Optimizing the Manufacturing Processes of Carbon Fiber Epoxy Resin Composite Panels**," Journal of Manufacturing Science and Engineering, Transactions of the ASME, Vol. 140(1), Jan 2018.
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- **Conference Proceeding:** Tabsh, S.W.; Yehia, S. "**Shear strength of reinforced concrete beams made with recycled aggregate**," World Congress on Civil, Structural, and Environmental Engineering, Jan 2018.
- **Journal:** Nigro, M.; Abdelfatah, A.; Cipriani, E.; Colombaroni, C.; Fusco, G.; Gemma, A. "**Dynamic O-D demand estimation: Application of SPSA AD-PI method in conjunction with different assignment strategies**," Journal of Advanced Transportation, Vol. 2018, Jan 2018.
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- **Journal:** Chebbi, A.H.; Chouaibi, Y.; Affi, Z.; Romdhane, L. "**Sensitivity analysis and prediction of the orientation error of a three translational parallel manipulator**," Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Vol. 232(1), p.140-161, Jan 2018.
- **Conference Proceeding:** Batayneh, W.; Jaradat, M.; Bataineh, A. "**Intelligent adaptive control for anti-lock braking system**," ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE), Vol. 4, Jan 2018.
- **Journal:** Ansari, Z.A.; Abu-Nabah, B.A.; Alkhader, M. "**Single-frequency apparent eddy current conductivity assessment of metallic coating thicknesses over nonmagnetic metals**," International Journal of Applied Electromagnetics and Mechanics, Vol. 56(4), p.533-547, Jan 2018.
- **Book Series:** Tvardovskii, A.; El-Fakih, K.; Yevtushenko, N. "**Deriving tests with guaranteed fault coverage for finite state machines with timeouts**," Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Vol. 11146, p.149-154, Jan 2018.
- **Conference Proceeding:** Pillai, N.; Karthikeyan, R.; Kannan, S.; Vincent, S. "**Effect of Cryogenic treatment on VIKING cold working tool steel and development of wear mechanism maps**," -, Vol. 26, p.329-342, Jan 2018.
- **Journal:** Hatamleh, K.S.; Khasawneh, Q.A.; Al-Ghasem, A.; Jaradat, M.A.; Sawaqed, L.; Al-Shabi, M. "**Scanning electron microscope fine tuning using four-bar piezoelectric actuated mechanism**," Journal of Electrical Engineering, Vol. 69(1), p.24-31, Jan 2018.
- **Journal:** Abuelmaatti, A.; Ahmed, V. "**Collaboration environments for small and medium-sized architecture, engineering and construction enterprises: Success factors in implementation**," International Journal of Information Technology and Management, Vol. 17(4), p.313-333, Jan 2018.
- **Book:** Albasha, L.; Qaddoumi, N.; Hatahet, B.; Quadir, N.; Taghadosi, M. "**Design challenges in wireless sensors for dental applications**," The IoT Physical Layer: Design and Implementation, p.105-126, Jan 2018.
- **Book Series:** Laribi, M.A.; Mlika, A.; Romdhane, L.; Zeghloul, S. "**Robust optimization of the RAF parallel robot for a prescribed workspace**," Mechanisms and Machine Science, Vol. 50, p.383-393, Jan 2018.
- **Journal:** Darwish, N.N.; Shareefdeen, Z.M.; El Sayed, Y.; Al Zubaidy, I.; Sara, Z. "**Design and analysis of adsorptive desulphurisation of diesel oil**," International Journal of Oil, Gas and Coal Technology, Vol. 17(3), p.304-320, Jan 2018.
- **Book Series:** Abed, F.H.; Nazzal, M.D.; Attom, M.F.; El-Emam, M.E.; ElMessalami, N.; Al-Dabagh, S. "**The Use of Wastewater in Construction of Base Course Layers in Pavement Structures**," Sustainable Civil Infrastructures, p.31-

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- **Conference Proceeding:** Javed, U.; Abdelkefi, A. "[Nonlinear analysis of hybrid galloping energy harvesting system integrated with a nonlinear torsional spring](#)," 2018 Fluid Dynamics Conference, Jan 2018.
- **Book Series:** Lamine, H.; Laribi, M.A.; Bennour, S.; Romdhane, L.; Zeghloul, S. "[Structure optimization of the cable driven legs trainer](#)," Mechanisms and Machine Science, Vol. 49, p.691-698, Jan 2018.
- **Conference Proceeding:** Kannan, S.; Pervaiz, S.; Ghoshal, A. "[An experimental investigation of inclined hole drilling for CFRP under various lubrication techniques](#)," ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE), Vol. 2, Jan 2018.
- **Book Series:** Mizumoto, T.; El-Fakih, K.; Yasumoto, K.; Higashino, T. "[An energy aware testing framework for smart-spaces](#)," Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Vol. 11146, p.85-101, Jan 2018.
- **Journal:** Hamdan, M.O.; Alargha, H.M.; Elnajjar, E.; Hilal-Alnaqbi, A.; Elshawarby, A.; Aziz, W.H. "[Numerical hemodynamics analysis for cerebral aneurysm with porous inserts](#)," Journal of Porous Media, Vol. 21(13), p.1439-1448, Jan 2018.
- **Book Series:** Ismail, M.; Lahouar, S.; Romdhane, L. "[Dynamic analysis and control of a hybrid serial/cable driven robot for lower-limb rehabilitation](#)," Mechanisms and Machine Science, Vol. 50, p.109-116, Jan 2018.
- **Book Series:** Alnajjar, K.A.; El-Tarhuni, M. "[Joint C-V-BLAST and DS-NOMA for Massive MIMO](#)," Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Vol. 211, p.484-492, Jan 2018.
- **Conference Proceeding:** Irsyada, R.; Isbiyantoro, S.; Wibawa, A.P.; Teng, M.F.; Gaffar, A.F.O.; Herdianto, R.; Witorsa, A.R. "[Achievement of quality management system ISO 9001:2015 strategy in Vocational High School](#)," IOP Conference Series: Materials Science and Engineering, Vol. 403(1), Jan 2018.
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- **Conference Proceeding:** Omar, Y.; Tasleem, A.; Pasquier, M.; Sagahyroon, A. "[Lung cancer prognosis system using data mining techniques](#)," HEALTHINF 2018 - 11th International Conference on Health Informatics, Proceedings; Part of 11th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2018, Vol. 5, p.361-368, Jan 2018.
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- **Book Series:** El-Emam, M.; Touqan, M. "[Response of Strip Footing Adjacent to Nonyielding Basement Wall](#)," Sustainable Civil Infrastructures, p.34-45, Jan 2018.
- **Conference Proceeding:** Aslam, H.; Karunagoda, P.; Quadri, M.S.; Slim, M.M.A.; Hammodat, A.R.; Al Nabulsi, M.; Mortula, Md.M.; Ali, T. "[Use of spectrometer for detection of leaks in water distribution system](#)," 1st International WDSA / CCWI 2018 Joint Conference, Jan 2018.
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- **Conference Proceeding:** Yehia, S.; Ghoneim, M. "[Lightweight aggregate for internal curing](#)," fib Symposium, p.1761-1767, Jan 2018.
- **Conference Proceeding:** Javed, U.; Abdelkefi, A. "[Modeling and aerodynamic impacts of inclined square cylinders on the performance of galloping systems](#)," 2018 Applied Aerodynamics Conference, Jan 2018.
- **Conference Proceeding:** As'ad, R.; Hariga, M.; Shamayleh, A. "[On the joint optimization of transportation and lot sizing decisions for a cold product with time varying demand](#)," Proceedings of International Conference on Computers and Industrial Engineering, CIE, Vol. 2018, Jan 2018.
- **Conference Proceeding:** Abdelkarim, M.; Abd Allah, N.H.; Elsabahy, M.; Abouelmagd, S.A.; Abdelgawad, M. "[Optimization of preparation of polymeric nanoparticles using microfluidics](#)," 22nd International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2018, Vol. 4, p.2189-2191, Jan 2018.

- **Book Series:** Salem, S.; El-Tarhuni, M. "[Expectation Maximization for Multipath Detection in Wideband Signals](#)," Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Vol. 211, p.120-131, Jan 2018.
- **Conference Proceeding:** Karkoub, M.; Romdhane, L. "[GA optimized formation control of autonomous underwater vehicles](#)," ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE), Vol. 4, Jan 2018.
- **Conference Proceeding:** Yehia, S.; Al-Theeb, M.; Al-Alami, A.; Turk, O.; Barakat, A. "[Residual capacity of concrete prepared with porous aggregate exposed to elevated temperatures](#)," fib Symposium, p.2573-2586, Jan 2018.
- **Conference Proceeding:** Bahorun, Z.; Shamayleh, A.; Zakaria, R.S. "[Dynamic and flexible scheduling for a flow-shop](#)," Proceedings of International Conference on Computers and Industrial Engineering, CIE, Vol. 2018, Jan 2018.
- **Book Series:** El Hraiech, S.; Chebbi, A.H.; Affi, Z.; Romdhane, L. "[Prediction of the position error of the uncertain 3-UPU TPM using interval analysis](#)," Lecture Notes in Mechanical Engineering, Vol. 0, p.985-993, Jan 2018.
- **Book Series:** Lamine, H.; Bennour, S.; Romdhane, L. "[Comprehensive dynamic study of an unloaded walking within a cable-based gait trainer](#)," Mechanisms and Machine Science, Vol. 50, p.165-173, Jan 2018.
- **Book Series:** Hraiech, S.E.; Chebbi, A.H.; Affi, Z.; Romdhane, L. "[Robust multi-objective design optimization of the 3-UPU TPM based on the ga-krawczyk method](#)," Mechanisms and Machine Science, Vol. 50, p.403-410, Jan 2018.
- **Conference Proceeding:** Pervaiz, S.; Kannan, S.; Samad, W.A. "[A numerical study to investigate the influence of edge preparation in vibration assisted machining](#)," ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE), Vol. 2, Jan 2018.
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- **Conference Proceeding:** El Shazly, M.; Yehia, S.; Abuzaid, W. "[Shear strength of lightweight concrete beams without web reinforcement](#)," fib Symposium, p.1755-1760, Jan 2018.
- **Conference Proceeding:** Touqan, M.; El-Emam, M. "[Behaviour of strip footing in the vicinity of non-yielding wall](#)," World Congress on Civil, Structural, and Environmental Engineering, Jan 2018.
- **Book Series:** Bennour, S.; Lamine, H.; Ulrich, B.; Legrand, T.; Jolles, B.; Favre, J.; Romdhane, L. "[A new experimental set-up for training multi-parameter gaits](#)," Mechanisms and Machine Science, Vol. 50, p.152-162, Jan 2018.
- **Conference Proceeding:** Puzyrev, V.; Ghommem, M.; Meka, S.; Calo, V. "[Reduced order modeling in geophysics: PyROM Open-source Framework](#)," 80th EAGE Conference and Exhibition 2018: Opportunities Presented by the Energy Transition, Jan 2018.
- **Conference Proceeding:** Abdelfatah, A.; Nasser, F. "[Integrating marine transport with other public transport modes in Dubai](#)," World Congress on Civil, Structural, and Environmental Engineering, Jan 2018.
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- **Book Series:** Lamine, H.; Bennour, S.; Romdhane, L. "[Dynamic simulation of a partial unloaded walking within the cable driven legs trainer using MATLAB SimMechanics](#)," Lecture Notes in Mechanical Engineering, Vol. 0, p.179-187, Jan 2018.
- **Book Series:** Ederguel, E.; Bennour, S.; Romdhane, L. "[Biomechanical approach for the development and simulation of a musculoskeletal model of the ankle](#)," Lecture Notes in Mechanical Engineering, Vol. 0, p.955-968, Jan 2018.
- **Journal:** Mishmish, M.; El-Sayegh, S.M. "[Causes of claims in road construction projects in the UAE](#)," International Journal of Construction Management, Vol. 18(1), p.26-33, Jan 2018.
- **Journal:** Darwish, N.A.; Al Sadoon, F.M.; Qasim, M. "[Stability limits and consolute critical conditions for liquid mixtures](#)," Chemical Engineering Communications, Vol. 205(1), p.12-22, Jan 2018.
- **Journal:** Kandil, S.M.; Farag, H.E.Z.; Shaaban, M.F.; El-Sharafy, M.Z. "[A combined resource allocation framework for PEVs charging stations, renewable energy resources and distributed energy storage systems](#)," Energy, Vol. 143,

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- **Conference Proceeding:** Elamin, W.E.; Shaaban, M.F. "[Real-time centralized control scheme for energy management in smart microgrids](#)," IEEE Power and Energy Society General Meeting, Vol. 2018, p.1-5, Jan 2018.
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- **Journal:** Rodriguez-Millan, M.; Garcia-Gonzalez, D.; Rusinek, A.; Abed, F.; Arias, A. "[Perforation mechanics of 2024 aluminium protective plates subjected to impact by different nose shapes of projectiles](#)," Thin-Walled Structures, Vol. 123, p.1-10, Feb 2018.
- **Journal:** Hamdan, M.O.; Al-Omari, S.-A.B.; Oweimer, A.S. "[Experimental study of vortex tube energy separation under different tube design](#)," Experimental Thermal and Fluid Science, Vol. 91, p.306-311, Feb 2018.
- **Journal:** Abdelhay, A.; Al Bsoul, A.; Al-Othman, A.; Al-Ananzeh, N.M.; Jum'h, I.; Al-Taani, A.A. "[Kinetic and thermodynamic study of phosphate removal from water by adsorption onto \(Arundo donax\) reeds](#)," Adsorption Science and Technology, Vol. 36(1-2), p.46-61, Feb 2018.
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- **Journal:** Khan, R.; Aziz, Z.; Ahmed, V. "[Building integrated agriculture information modelling \(BIAIM\): An integrated approach towards urban agriculture](#)," Sustainable Cities and Society, Vol. 37, p.594-607, Feb 2018.
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- **Journal:** Zubaidi, I.A.; Tamimi, A.A. "[Soil remediation from waste lubricating oil](#)," Environmental Technology and Innovation, Vol. 9, p.151-159, Feb 2018.
- **Journal:** Ghommem, M.; Qiu, X.; Aidagulov, G.; Abbad, M. "[Streaming potential measurements for downhole monitoring of reservoir fluid flows: A laboratory study](#)," Journal of Petroleum Science and Engineering, Vol. 161, p.38-49, Feb 2018.
- **Journal:** Atabay, S.; Haji Amou Assar, K.; Hashemi, M.; Dib, M. "[Prediction of the backwater level due to bridge constriction in waterways](#)," Water and Environment Journal, Vol. 32(1), p.94-103, Feb 2018.
- **Journal:** Al Ali, F.; Hassan, N.M. "[Optimization of Bus Depot location with consideration of maintenance center availability](#)," Journal of Transportation Engineering Part A: Systems, Vol. 144(2), Feb 2018.
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- **Journal:** Elahi, F.E.; Hasan, A. "[A method for estimating hill function-based dynamic models of gene regulatory networks](#)," Royal Society Open Science, Vol. 5(2), Feb 2018.
- **Journal:** Alaa, A.M.; Ismail, M.H.; Tawfik, H. "[Opportunistic Beamforming Using Dumb Basis Patterns in Cognitive Multiple Access Channels](#)," IEEE Transactions on Vehicular Technology, Vol. 67(2), p.1417-1427, Feb 2018.
- **Journal:** Attom, M.F.; El-Emam, M.M.; Khan, Z.H.; Vandanapu, R. "[Reducing the collapsibility of clay using a cement-polymeric fibre admixture](#)," Proceedings of the Institution of Civil Engineers: Ground Improvement, Vol. 171(1), p.38-48, Feb 2018.
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- **Journal:** Moualla, A.; Boucenna, S.; Karaouzene, A.; Vidal, D.; Gaussier, P. "[Is it useful for a robot to visit a museum?: The impact of cumulative learning on a robot population](#)," Paladyn, Vol. 9(1), p.374-390, Feb 2018.
- **Journal:** Assaf, T.; Osman, A.H.; Hassan, M.S.; Mir, H. "[Fair and efficient energy consumption scheduling algorithm using tabu search for future smart grids](#)," IET Generation, Transmission and Distribution, Vol. 12(3), p.643-649, Feb 2018.
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- **Journal:** Taghadosi, M.; Albasha, L.; Mir, H. "[Miniaturised stretch processed radar transceiver](#)," IET Microwaves, Antennas and Propagation, Vol. 12(3), p.320-325, Feb 2018.

- **Journal:** Markou, G.; Alhamaydeh, M. "[3D Finite Element Modeling of GFRP-Reinforced Concrete Deep Beams without Shear Reinforcement](#)," International Journal of Computational Methods, Vol. 15(2), Mar 2018.
- **Journal:** Saeed, J.; Hasan, A. "[Unit Prediction Horizon Binary Search-Based Model Predictive Control of Full-Bridge DC-DC Converter](#)," IEEE Transactions on Control Systems Technology, Vol. 26(2), p.463-474, Mar 2018.
- **Journal:** Aldabagh, S.; Abed, F.; Yehia, S. "[Effect of types of concrete on flexural behavior of beams reinforced with high-strength steel bars](#)," ACI Structural Journal, Vol. 115(2), p.351-364, Mar 2018.
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- **Journal:** Alkhader, M.; Zhai, X.; Chiang, F.-P. "[Experimental investigation of the synergistic effects of moisture and freeze-thaw cycles on carbon fiber vinyl-ester composites](#)," Journal of Composite Materials, Vol. 52(7), p.919-930, Mar 2018.
- **Journal:** Mir, H.; Al-Nashash, H.; Kortelainen, J.; All, A. "[Novel Modeling of Somatosensory Evoked Potentials for the Assessment of Spinal Cord Injury](#)," IEEE Transactions on Biomedical Engineering, Vol. 65(3), p.511-520, Mar 2018.
- **Journal:** El-Fakih, K.; Yevtushenko, N.; Kushik, N. "[Adaptive distinguishing test cases of nondeterministic finite state machines: test case derivation and length estimation](#)," Formal Aspects of Computing, Vol. 30(2), p.319-332, Mar 2018.
- **Journal:** Azlah, N.; Shareefdeen, Z.; Elkamel, A. "[Predicting Dispersion and Pollutant Concentration of Dimethyl Sulfide \(DMS\) from a Biofilter Under Various Atmospheric Conditions](#)," Emission Control Science and Technology, Vol. 4(1), p.64-71, Mar 2018.
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- **Journal:** El-Fakih, K.; Barlas, G.; Ali, M.; Yevtushenko, N. "[Parallel algorithms for reducing derivation time of distinguishing experiments for nondeterministic finite state machines](#)," International Journal of Parallel, Emergent and Distributed Systems, Vol. 33(2), p.197-210, Mar 2018.
- **Journal:** Bakri-Kassem, M.; Dhaouadi, R.; Arabi, M.; Estahbanati, S.V.; Abdel-Rahman, E. "[Nonlinear dynamic modeling of a V-shaped metal based thermally driven MEMS actuator for RF switches](#)," Journal of Micromechanics and Microengineering, Vol. 28(5), Mar 2018.
- **Journal:** Abuzaid, W.; Sehitoglu, H. "[Plastic strain partitioning in dual phase Al13CoCrFeNi high entropy alloy](#)," Materials Science and Engineering: A, Vol. 720, p.238-247, Mar 2018.
- **Journal:** Ibrahim, H.; Aburukba, R.O.; El-Fakih, K. "[An Integer Linear Programming model and Adaptive Genetic Algorithm approach to minimize energy consumption of Cloud computing data centers](#)," Computers and Electrical Engineering, Vol. 67, p.551-565, Apr 2018.
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- **Journal:** Abou Chacra, L.; Sabri, M.A.; Ibrahim, T.H.; Khamis, M.I.; Hamdan, N.M.; Al-Asheh, S.; Alrefai, M.; Fernandez, C. "[Application of graphene nanoplatelets and graphene magnetite for the removal of emulsified oil from produced water](#)," Journal of Environmental Chemical Engineering, Vol. 6(2), p.3018-3033, Apr 2018.
- **Journal:** Shanableh, T. "[Altering split decisions of coding units for message embedding in HEVC](#)," Multimedia Tools and Applications, Vol. 77(7), p.8939-8953, Apr 2018.
- **Journal:** Quadir, N.A.; Albasha, L.; Taghadosi, M.; Qaddoumi, N.; Hatahet, B. "[Low-Power Implanted Sensor for Orthodontic Bond Failure Diagnosis and Detection](#)," IEEE Sensors Journal, Vol. 18(7), p.3003-3009, Apr 2018.
- **Journal:** Hamdan, M.O.; Abu-Nabah, B.A. "[Modeling meniscus rise in capillary tubes using fluid in rigid-body motion approach](#)," Communications in Nonlinear Science and Numerical Simulation, Vol. 57, p.449-460, Apr 2018.
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- **Conference Proceeding:** Wadi, A.; Lee, J.-H.; Romdhane, L. "[Nonlinear sliding mode control of the Furuta pendulum](#)," 11th International Symposium on Mechatronics and its Applications, ISMA 2018, Vol. 2018, p.1-5, Apr 2018.
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- **Conference Proceeding:** Wadi, A.; Lee, J.-H.; Mukhopadhyay, S. "[Modeling and system identification of an autonomous underwater vehicle](#)," 11th International Symposium on Mechatronics and its Applications, ISMA 2018, Vol. 2018, p.1-6, Apr 2018.
- **Conference Proceeding:** Mohammed, H.; Jaradat, M.; Romdhane, L. "[RRTN: An improved rapidly-exploring random tree approach for reduced processing times](#)," 11th International Symposium on Mechatronics and its Applications, ISMA 2018, Vol. 2018, p.1-6, Apr 2018.
- **Conference Proceeding:** Basta, E.E.; Ghommem, M.; Romdhane, L.; Emam, S.; Abdelkefi, A. "[Design, implementation, and performance analysis of miniature wind turbine](#)," 11th International Symposium on Mechatronics and its Applications, ISMA 2018, Vol. 2018, p.1-5, Apr 2018.
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- **Conference Proceeding:** Butt, H.U.; Waleed, D.; Dhaouadi, R. "[Friction estimation of a linear voice coil motor using robust state space sinusoidal reference tracking](#)," 11th International Symposium on Mechatronics and its Applications, ISMA 2018, Vol. 2018, p.1-6, Apr 2018.
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