

Publication Distribution over the years

Year	2010	2011	2012	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Books	-	1	-	-	-	-	-	-	-	-	3	-	1	-	-	-
Conf.	1	1	1	5	3	2	10	9	18	9	8	6	10	5	9	1
Journals	-	1	-	-	1	3	5	4	14	16	12	13	15	14	9	4
Chapters	-	-	-	-	-	-	-	6	-	2	4	-	2	3	-	1
Total	1	3	1	5	4	5	15	19	32	27	27	20	28	22	18	6+

List of Publications:

Authored Books:

2011

1. **L. A. Said**, A. H. Madian, and A. M. Soliman, "Active Circuits: Active realization of doubly terminated LC ladder filters using active building blocks," LAMBERT Academic Publishing LAP, 2011

Edited Books:

2021

1. Ahmed Radwan, Farooq Khanday, **Lobna Said**, "Fractional Order Systems: An Overview of Mathematics, Design, and Applications for Engineers," Academic Press, Elsevier, October 2021 ([Link](#))
2. Ahmed Radwan, Farooq Khanday, **Lobna Said**, "Fractional-Order Design: Devices, Circuits, and Systems," Academic Press, Elsevier, October 2021. ([Link](#))
3. Ahmed Radwan, Farooq Khanday, **Lobna Said**, "Fractional-Order Modeling of Dynamic Systems with Applications in Optimization, Signal Processing, and Control," Academic Press, Elsevier, October 2021. ([Link](#))

2023

4. Irene S. Fahim and **Lobna Said**, "Wastewater Treatment: Recycling, Management, and Valorization of Industrial Solid Wastes". CRC Press, 2023. ([Link](#))

Chapters:

2018

1. **Lobna A. Said**, Karabi Biswas, Ahmed G. Radwan, "Fractional-Order Filter Design," Fractional Order Systems, pp. 357–382, 2018. doi.org/10.1016/b978-0-12-816152-4.00012-1
2. **Lobna A. Said**, Ahmed G. Radwan, Ahmed H. Madian, Ahmed M. Soliman, "Survey on Two-Port Network Based Fractional-Order Oscillators," Fractional Order Systems, pp. 305–327, 2018. doi.org/10.1016/b978-0-12-816152-4.00010-8
3. Wafaa S. Sayed, Samar M. Ismail, **Lobna A. Said**, Ahmed G. Radwan, "On the Fractional-Order Generalized Discrete Maps," Mathematical Techniques of Fractional Order Systems, pp. 375–408, 2018. <https://doi.org/10.1016/b978-0-12-813592-1.00013-1>
4. D.A. Yousri, Amr M. AbdelAty, **Lobna A. Said**, Ahmed G. Radwan, "Biological Inspired Optimization Algorithms for Fractional-Order Bio-Impedance Models Parameters Extraction," Fractional Order Systems, pp. 125–162, 2018. doi.org/10.1016/b978-0-12-816152-4.00005-4
5. Mohammed F. Tolba, Amr M. AbdelAty, **L. A. Said**, A. H. Madian, Ahmed G. Radwan "FPGA Implementation of Fractional Order Chaotic Systems," Fractional Order Systems, pp. 33–62, 2018.
6. Omar Elwy, Esraa M. Hamed, Somia H. Rashad, Amr M. AbdelAty, **Lobna A. Said**, Ahmed G. Radwan, "On the Approximation of Fractional-Order Circuits Design," Fractional Order Systems, pp. 239–270, 2018. doi.org/10.1016/b978-0-12-816152-4.00008-x

2020

7. Ahmed J. Abd El-Maksoud, Ayman A. Abd El-Kader, Bahy G. Hassan, Mohamed A. Abdelhamed, Nader G. Rihan, Mohamed F. Tolba, **Lobna A. Said**, Ahmed G. Radwan, Mohamed F. Abu-Elyazeed, "FPGA Implementation of Integer/Fractional Chaotic Systems," Multimedia Security Using Chaotic Maps: Principles and Methodologies, Springer, 2020. https://doi.org/10.1007/978-3-030-38700-6_9
8. Irene S. Fahim, Ahmed M. Hassanein, **Lobna A. Said**, Ahmed H. Madian, "Design and fabrication of CNT/graphene-based polymer nanocomposite applications in nanosensors," Nanofabrication for Smart Nanosensor Applications, Elsevier, 2020.

2021

9. Menna Mohsen, Mohamed S. Ghoneim, **Lobna A. Said**, A. S. Elwakil, A. H. Madian, Ahmed G. Radwan, "Modeling Woody Plant Tissue Using Different Fractional-Order Circuits" Fractional-Order Modeling of Dynamic Systems with Applications in Optimization, Signal Processing, and Control, Academic Press, Elsevier, October 2021.
10. N. A. Khalil, M. Mohsen, G. M. Ahmed, **Lobna A. Said**, A. H. Madian and A. G. Radwan, "Fractional-Order Oscillators Based on single Op-Amp," Fractional Order Systems: An Overview of Mathematics, Design, and Applications for Engineers, Academic Press, Elsevier, October 2021
11. N. A. Khalil, **Lobna A. Said**, A. G. Radwan, and A. M. Soliman, "A Survey on Memristor Active Emulation Circuits in the Fractional-Order Domain," Fractional Order Systems: An Overview of Mathematics, Design, and Applications for Engineers, Academic Press, Elsevier, October 2021.
12. Arezki Fekik, Mohamed Lamine Hamida, Hamza Houassine, Hakim Denoun, Sundarapandian Vaidyanathan, Nacera Yassa, Ahmed G. Radwan, and **Lobna A. Said** "Observability of speed DC motor with self-tuning fuzzy fractional-order controller" Fractional Order Design: Devices, Circuits and Systems, Academic Press, Elsevier, October 2021.

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13. Shima Husien, Nagwan G. Mostafa, Alyaa I. Salim, Irene Samy Fahim, **Lobna A. Said**, and Ahmed G. Radwan. "Applied Techniques for Wastewater Treatment: Physicochemical and Biological Methods." In Wastewater Treatment, pp. 57-88. CRC Press, 2023.
14. Reem M. Eltaweel, Shima Husien, Alyaa I. Salim, Nagwan G. Mostafa, Khlood Ahmed, Irene Samy Fahim, **Lobna A. Said**, and Ahmed G. Radwan. "Adsorption as an Emerging Technology and Its New Advances of Eco-Friendly Characteristics: Isotherm, Kinetic, and Thermodynamic Analysis." In Wastewater Treatment, pp. 89-152. CRC Press.

2024

15. K. A. Alrefaey, A. B. Abdel-Aziz, L. A. Said, I. S. Fahim, and A. G. Radwan, "Carbon Nanomaterials and Their Composites as Adsorbents," Carbon Nanomaterials and Their Composites as Adsorbents, pp. 39–62, 2024, doi: 10.1007/978-3-031-48719-4_3.
16. H. M. Elrefai, S. S. A. Zeid, W. S. Sayed, **L. A. Said**, and A. G. Radwan, "Compact Multiplier-less CORDIC-Based FPGA Implementation of Sine and Modified Sine Chaotic Maps," Advances in Nonlinear Dynamics, Volume III, pp. 153–161, 2024, doi: 10.1007/978-3-031-50635-2_15
17. S. M. Mohamed, W. S. Sayed, **L. A. Said**, and A. G. Radwan, "Generalized Fractional-Order Complex Logistic Map and Fractals on FPGA," Advances in Nonlinear Dynamics, Volume III, pp. 371–380, 2024, doi: 10.1007/978-3-031-50635-2_35.

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18. A. El Hammoumi, L. Rahhab, **L. A. Said**, and S. Motahhir, "AUTOSAR in automotive embedded systems: classic versus adaptive platforms and their role in IoV development with integrated blockchain security," Embedded Systems in Automotive Applications, pp. 29–62, 2026, doi: 10.1016/b978-0-443-33861-8.00008-2.

Journals:

2011

1. **L. A. Said**, A. H. Madian, M. H. Ismail, and A. M. Soliman, "Active Realization of Doubly Terminated LC Ladder Filters Using Current Feedback Operational Amplifier (CFOA) Via Linear Transformation," Int. J. Electron Comm. (AEU), vol.65, no.9, pp.753-762, 2011.

2015

2. **L. A. Said**, A. G. Radwan A. H. Madian, and A. M. Soliman, "Fractional Order Oscillators Based on Operational Transresistance Amplifiers," Int. J. Electron Comm. (AEU), vol.69, pp.988-1003, 2015.

2016

3. **L. A. Said**, A. G. Radwan A. H. Madian, and A. M. Soliman, "Two-port Two Impedances Fractional Order Oscillators," microelectronics journal, vol. 55 pp. 40-52. 2016.
4. **L. A. Said**, S. M. Ismail, A. G Radwan, A. H. Madian, M. F. Abu El-Yazeed, and A. M. Soliman, "On the Optimization of Fractional Order Low Pass Filters," Circuits, Systems, and Signal Processing (CSSP), vol. 35 no.6, pp.2017-2039.2016.
5. **L. A. Said**, A. G. Radwan A. H. Madian, and A. M. Soliman, "Fractional Order Oscillator Design Based on Two-Port Network," Circuits, Systems, and Signal Processing (CSSP), vol. 35, no. 9, pp. 3086-3112, 2016. doi.org/10.1007/s00034-015-0200-8

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6. **L. A. Said**, A. G. Radwan, A. H. Madian, and A. M. Soliman, "Fractional Order Oscillators with Controllable Phase and Frequency," Journal of Circuits, Systems and Computers, vol. 26, No. 10. 1750160, Apr. 2017.
7. Samar M. Ismail, **Lobna A. Said**, Ahmed A. Rezk, Ahmed G. Radwan, Ahmed H. Madian, Mohamed F. Abu-Elyazeed, Ahmed M. Soliman "Generalized Fractional Logistic Map Encryption System Based on FPGA," Int. J. Electron Comm. (AEU), vol. 80, pp. 114-126,2017. <https://doi.org/10.1016/j.aeue.2017.05.047>

8. Ahmed AboBakr, **Lobna A. Said**, A. H. Madian, A. S. Elwakil, A. G. Radwan, "Experimental Comparison of Integer/Fractional-order Electrical Models of Plant," AEU - International Journal of Electronics and Communications, vol. 80, pp. 1–9, Oct. 2017.
9. Mohammed F. Tolba, Amr M. AbdelAty, Nancy S. Soliman, **L. A. Said**, A. H. Madian, Ahmad T. Azar, Ahmed G. Radwan "FPGA Implementation of Two Fractional-Order Chaotic Systems," Int. J. Electron Comm. (AEU), vol. 78, pp. 162–172, 2017.
10. D. A. Yousri, Amr M. AbdelAty, **Lobna A. Said**, Ahmed AboBakr, Ahmed G. Radwan "Biological Inspired Optimization Algorithms for Cole Impedance Parameters Identification," Int. J. Electron Comm. (AEU), vol. 78, pp. 79–89, 2017. doi.org/10.1016/j.aeue.2017.05.010

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11. Omar Elwy, Somia H. Rashad, **Lobna A. Said**, Ahmed G. Radwan, "Comparison between three approximation methods on oscillator circuits," Microelectronics Journal, vol. 81, pp. 162–178, Nov. 2018. doi.org/10.1016/j.mejo.2018.07.006
12. Esraa M. Hamed, Amr M. AbdelAty, **Lobna A. Said**, and Ahmed G. Radwan, "Effect of Different Approximation Techniques on Fractional-Order KHN Filter Design," Circuits, Systems, and Signal Processing (CSSP), vol. 37, no. 12, pp. 5222–5252, May 2018. doi.org/10.1007/s00034-018-0833-5
13. Haneen G. Hezayyin, Gehad M. Ahmed, Mohammed E. Fouda, **Lobna A. Said**, Ahmed H. Madian, and Ahmed G. Radwan, "A Generalized Family of Memristor-Based Voltage Controlled Relaxation Oscillator," International Journal of circuit theory and applications (CTA), vol. 46, no. 7, pp. 1311–1327, Jun. 2018.
14. Samar M. Ismail, **Lobna A. Said**, Ahmed G. Radwan, Ahmed H. Madian, Mohamed F. Abu-Elyazeed, "Generalized Double-Humped Logistic Map-based Medical Image Encryption," Journal of Advanced Research, vol. 10, pp. 85–98, Mar. 2018.

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15. M. F. Tolba, **Lobna A. Said**, A. H. Madian, and A. G. Radwan, "FPGA Implementation of the Fractional-Order Integrator/Differentiator: Two Approaches and Application," IEEE Transactions on Circuits and Systems I: Regular Papers, vol. 66, no. 4, pp. 1484–1495, Apr. 2019. <https://doi.org/10.1109/tcsi.2018.2885013>
16. M. F. Tolba, B. M. AboAlNaga, **Lobna A. Said**, A. H. Madian, and A. G. Radwan, "Fractional-order integrator/differentiator: FPGA implementation and FOPID controller application," AEU - International Journal of Electronics and Communications, vol. 98, pp. 220–229, Jan. 2019. <https://doi.org/10.1016/j.aeue.2018.10.007>
17. D. A. Yousri, Amr M. AbdelAty, **Lobna A. Said**, A. S. Elwakil, Brent Maundy, Ahmed G. Radwan, "Parameter identification of fractional-order chaotic systems using different Meta-heuristic Optimization Algorithms," Nonlinear Dynamics, vol. 95, no. 3, pp. 2491–2542, Jan. 2019. <https://doi.org/10.1007/s11071-018-4703-2>
18. D. A. Yousri, Amr M. AbdelAty, **Lobna A. Said**, A. S. Elwakil, Brent Maundy, Ahmed G. Radwan, "Chaotic Flower Pollination and Grey Wolf Algorithms for parameter extraction of bio-impedance models," Applied Soft Computing, vol. 75, pp. 750–774, 2019. doi.org/10.1016/j.asoc.2018.11.020
19. Nariman A. Khalil, **Lobna A. Said**, Ahmed G. Radwan, Ahmed M. Soliman "Generalized Two-port Network-Based Fractional Order Filters," AEU - International Journal of Electronics and Communications, vol. 104, pp. 128–146, May 2019. doi.org/10.1016/j.aeue.2019.01.016
20. Omar Elwy, **Lobna A. Said**, A. H. Madian, Ahmed G. Radwan, "All Possible Topologies of the Fractional-Order Wien Oscillator Family Using Different Approximation Techniques," Circuits, Systems, and Signal Processing (CSSP), vol. 38, no. 9, pp. 3931–3951, Feb. 2019. <https://doi.org/10.1007/s00034-019-01057-6>
21. N. S. Soliman, M. E. Fouda, A. G. ALHARBI, **Lobna A. Said**, A. H. Madian, and A. G. Radwan, "Ternary Functions Design Using Memristive Threshold Logic," IEEE Access, vol. 7, pp. 48371–48381, Apr. 2019.
22. M. F. Tolba, A. H. Elsafty, M. Armanyos, **Lobna A. Said**, A. H. Madian, and A. G. Radwan, "Synchronization and FPGA realization of fractional-order Izhikevich neuron model," Microelectronics Journal, vol. 89, pp. 56–69, Jul. 2019. <https://doi.org/10.1016/j.mejo.2019.05.003>
23. A. J. Abd El-Maksoud, A. A. Abd El-Kader, B. G. Hassan, N. G. Rihan, M. F. Tolba, **Lobna A. Said**, A. G. Radwan, and M. F. Abu-Elyazeed, "FPGA implementation of sound encryption system based on fractional-order chaotic systems," Microelectronics Journal, May 2019. <https://doi.org/10.1016/j.mejo.2019.05.005>
24. Nariman A. Khalil, **Lobna A. Said**, Ahmed G. Radwan, Ahmed M. Soliman, "General Fractional Order Mem-elements Mutators" Microelectronics Journal, vol. 90, pp. 211–221, Aug. 2019. <https://doi.org/10.1016/j.mejo.2019.05.018>
25. Nancy S. Soliman, Mohammed F. Tolba, **Lobna A. Said**, Ahmed H. Madian, Ahmed G. Radwan "Fractional X-shape Controllable Multi-scroll Attractor with Parameter Effect and FPGA Automatic Design Tool software" chaos solitan and fractals, vol. 126, pp. 292–307, Sep. 2019. <https://doi.org/10.1016/j.chaos.2019.05.028>
26. **Lobna A. Said**, Omar Elwy, Ahmed H. Madian, Ahmed G. Radwan, Ahmed M. Soliman "Stability analysis of fractional-order Colpitts oscillators" Analog Integrated Circuits and Signal Processing, vol. 101, no. 2, pp. 267–279, 2019.
27. Ahmed M. Hassanein, Abdulaziz H. Elsafty, Ahmed H. Madian, **Lobna A. Said**, Ahmed G. Radwan "Center Pulse Width Modulation Implementation Based on Memristor," AEU - International Journal of Electronics and Communications, vol. 111, p. 152843, 2019.
28. B. M. AboAlNaga, **Lobna A. Said**, A. H. Madian, A. S. Elwakil and A. G. Radwan "Cole Bio-Impedance Model Variations in Daucus Carota Sativus Under Heating and Freezing Conditions" IEEE Access, vol. 7, pp. 113254 - 113263, August 2019. doi.org/10.1109/access.2019.2934322

29. E. M. Hamed, **Lobna A. Said**, A. H. Madian , and A. G. Radwan “On the Approximations of CFOA-Based Fractional-Order Inverse Filters” *Circuits, Systems, and Signal Processing (CSSP)*, vol. 39, no. 1, pp. 2–29,2020. doi.org/10.1007/s00034-019-01155-5
30. Samar M. Ismail, **Lobna A. Said**, Ahmed G. Radwan, Ahmed H. Madian, Mohamed F. Abu-ElYazeed “A Novel Image Encryption System Merging Fractional-Order Edge Detection and Generalized Chaotic Maps” *Signal processing*, vol. 167, p. 107280, 2020. <https://doi.org/10.1016/j.sigpro.2019.107280>
31. Panagiotis Bertsias, Menna Mohsen, **Lobna A. Said**, Ahmed S. Elwakil, Costas Psychalinos, Ahmed G. Radwan, “Design and Implementation of an Optimized Artificial Human Eardrum Model,” *Circuits, Systems, and Signal Processing (CSSP)* vol. 39, no. 6, pp. 3219–3233, 2020.
32. A. H. Elsafty, M. F. Tolba, **Lobna A. Said**, A. H. Madian, and A. G. Radwan, “Hardware realization of a secure and enhanced s-box based speech encryption engine,” *Analog Integrated Circuits and Signal Processing*, vol. 106, pp. 385–397 2020. <https://doi.org/10.1007/s10470-020-01614-z>
33. O. Elwy, A. Abdelaty, **L. Said** and A. Radwan, "Fractional calculus definitions, approximations, and engineering applications", *Journal of engineering and applied science*, vol. 67, no. 1, pp. 1-30, 2020.
34. A. H. Elsafty, M. F. Tolba, **Lobna A. Said**, A. H. Madian, and A. G. Radwan, “A study of the nonlinear dynamics of human behavior and its digital hardware implementation,” *Journal of Advanced Research*, vol. 25, pp. 111–123, Sep. 2020.
35. O. Elwy, A. M. AbdelAty, **Lobna A. Said**, A. H. Madian, A. G. Radwan “Two Implementations of Fractional-Order Relaxation Oscillators” *Analog Integrated Circuits and Signal Processing*, vol.106, pp. 421–432,2020.
36. Amr M. AbdelAty, D. A. Yousri, **Lobna A. Said**, Ahmed G. Radwan, “Identifying the parameters of Cole Impedance model using magnitude only and complex impedance measurements: A metaheuristic optimization approach,” *Arabian Journal for Science and Engineering*, vol. 45, no. 8, pp. 6541–6558, May 2020. doi.org/10.1007/s13369-020-04532-4
37. Menna Mohsen, **Lobna A. Said** , Ahmed S. Elwakil , Ahmed H. Madian , and Ahmed G. Radwan “Extracting Optimized Bio-Impedance Model Parameters Using Different Topologies of Oscillators” *IEEE Sensors Journal*, vol. 20 , no. 17, pp. 9947 - 9954, Sep. 2020. doi.org/10.1109/jsen.2020.2990587
38. Nariman A. Khalil, **Lobna A. Said**, Ahmed G. Radwan, Ahmed M. Soliman, “Emulation circuits of Fractional-Order Memelements with multiple pinched points and their applications” *Chaos, Solitons & Fractals*, vol. 138, p. 109882, Sep. 2020.
39. Amr M. AbdelAty, Merna Roushdy, **Lobna A. Said**, Ahmed G. Radwan “Numerical Simulations and FPGA Implementations of Fractional-Order Systems Based on Product Integration Rules” *IEEE Access*, vol. 8, pp. 102093–102105, 2020.
40. Nariman A. Khalil, Mohammed E. Fouda, **Lobna A. Said**, Ahmed G. Radwan, Ahmed M. Soliman “A General Emulator for Fractional-Order Memristive Elements with Multiple Pinched Points and Application,” *AEU - International Journal of Electronics and Communications*, vol. 124, p. 153338, Sep. 2020.
41. Ola I. Ahmed, Heba M. Yassin, **Lobna A. Said**, Costas Psychalinos, Ahmed G. Radwan, “Implementation and Analysis of Tunable Fractional-Order Band-pass Filter of order 2α ,” *AEU - International Journal of Electronics and Communications*, vol. 124, p. 153343, Sep. 2020. doi.org/10.1016/j.aeue.2020.153343
42. A. H. Elsafty, M. F. Tolba, **Lobna A. Said**, A. H. Madian, and A. G. Radwan, “Enhanced Hardware Implementation of a Mixed-order Nonlinear Chaotic System and Speech Encryption Application,” *AEU - International Journal of Electronics and Communications*, vol. 125, p. 153347, Jul. 2020.
43. Ahmed H. Abdel-Gawad, **Lobna A. Said**, Ahmed G. Radwan “Optimized Edge Detection Technique for Brain Tumor Detection in MR Images,” *IEEE access*, vol.8, pp. 136243-136259, July 2020. [10.1109/ACCESS.2020.3009898](https://doi.org/10.1109/ACCESS.2020.3009898)
44. Wafaa S. Sayed, Merna Roshdy, **Lobna A. Said**, and Ahmed G. Radwan, “Chaotic Dynamics and FPGA Implementation of a Fractional-Order Chaotic System with Time Delay” *IEEE Open Journal of Circuits and Systems*, vol. 1, pp. 255–262,Dec. 2020.

45. B. M. AboAlNaga, **L. A. Said**, A. H. Madian, and A. G. Radwan, “Analysis and FPGA of semi-fractal shapes based on complex Gaussian map,” *Chaos, Solitons & Fractals*, vol. 142, p. 110493, Jan. 2021.
46. M. Elnawawy, F. Aloul, A. Sagahyoon, A. S. Elwakil, Wafaa S. Sayed, **Lobna A. Said**, S. M. Mohamed and Ahmed G. Radwan “FPGA Realizations of Chaotic Epidemic and Disease Models Including Covid-19” *IEEE access*, vol.9, PP 21085 – 21093, Jan. 2021. [10.1109/ACCESS.2021.3055374](https://doi.org/10.1109/ACCESS.2021.3055374)
47. Ahmed T. Mohamed, Mahmoud F. Mahmoud, R. A. Swief, **Lobna A. Said**, Ahmed G. Radwan “Optimal Fractional-Order PI with DC-DC Converter and PV System” *Ain Shams Engineering Journal*, vol. 12, no. 2, pp. 1895–1906, Jun. 2021.
48. Doaa K. Abdelrahman, Rawan Mohammed, Mohammed E. Fouda, **Lobna A. Said**, and Ahmed G. Radwan “Memristive Bio-impedance Modeling of Fruits and Vegetables” *IEEE access*, vol. 9, pp. 21498–21506, Jan. 2021
49. Menna Mohsen, **Lobna A. Said** , Ahmed H. Madian , Ahmed G. Radwan Ahmed S. Elwakil , “Fractional-Order Bio-Impedance Modeling for Interdisciplinary Applications: A Review” *IEEE Access*, vol. 9, pp. 33158–33168, Feb. 2021.
50. Samar M. Ismail, **Lobna A. Said**, Ahmed H. Madian and Ahmed G. Radwan , “Fractional-Order Edge Detection Masks for Diabetic Retinopathy Diagnosis as a Case Study” *Computers*, vol. 10, no. 3, p. 30, Mar. 2021.

51. Mohamed S. Ghoneim, Amr A. Mohammaden, Menna Mohsen, **Lobna A. Said**, Ahmed G. Radwan, "A Modified Differentiator Circuit for Extracting Cole-Impedance Model Parameters Using Meta-Heuristic Optimization Algorithms", *Arabian Journal for Science and Engineering*, vol. 46, no. 10, pp. 9945–9951, Apr. 2021.
52. A. Mohammaden, M. E. Fouda, Ihse Alouani, **Lobna A. Said**, and Ahmed G. Radwan, "CNTFET Design of a Multiple-Port Ternary Register File," *Microelectronics Journal*, vol. 113, p. 105076, Jul. 2021.
53. Wafaa S. Sayed, Merna Roshdy, **Lobna A. Said**, and Ahmed G. Radwan, "Design and FPGA Verification of Custom-Shaped Chaotic Attractors Using Rotation, Offset Boosting and Amplitude Control" *IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS—II: EXPRESS BRIEFS*, vol. 68, no. 11, pp. 3466–3470, Nov. 2021 [10.1109/TCSII.2021.3082271](https://doi.org/10.1109/TCSII.2021.3082271)
54. Iman S. Badr, Ahmed G. Radwan · El-Sayed, EL-Rabaie , **Lobna A. Said** , Ghada M. El Banby , Walid El-Shafai , and Fathi E. Abd El-Samie, "Cancellable Face Recognition based on Fractional-Order Lorenz Chaotic System and Haar Wavelet Fusion," *Digital Signal Processing*, vol. 116, p. 103103, Sep. 2021.
55. S. M. Mohamed, Wafaa S. Sayed, **Lobna A. Said**, and Ahmed G. Radwan "Reconfigurable FPGA Realization of Fractional-Order Chaotic Systems" *IEEE Access*, vol. 9, pp. 89376–89389, June 2021.
56. N. A. Khalil, H. G. Hezayyin, **Lobna A. Said**, A. H. Madian, and A. G. Radwan, "Active emulation circuits of fractional-order memristive elements and its applications," *AEU - International Journal of Electronics and Communications*, vol. 138, p. 153855, Aug. 2021.

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58. B. M. AboAlNaga, **L. A. Said**, A. H. Madian, and A. G. Radwan, "FPGA REALIZATION OF COMPLEX LOGISTIC MAP FRACTAL BEHAVIOR," *Fractals*, vol. 30, no. 01, Feb 2022.
59. Mohamed S. Ghoneim, Samar I. Gadallah, **Lobna A. Said**, Ahmed M. Eltawil, Ahmed G. Radwan, and Ahmed H. Madian, "Plant Stem Tissue Modeling and Parameter Identification using Metaheuristic Optimization Algorithms.," *Scientific Reports*, vol. 12, no. 1, Mar. 2022.
60. S. M. Mohamed, W. S. Sayed, A. G. Radwan, and L. A. Said, "FPGA Implementation of Reconfigurable CORDIC Algorithm and a Memristive Chaotic System with Transcendental Nonlinearities," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 69, no. 7, pp. 2885–2892, Jul. 2022,
61. Wafaa S. Sayed, Sara M. Mohamed, Ahmed S. Elwakil , **Lobna A. Said** , and Ahmed G. Radwan "Numerical Sensitivity Analysis and Hardware Verification of a Transiently-Chaotic Attractor" *International Journal of Bifurcation and Chaos*, Vol. 32, No. 7 2250103, April 2022
62. A. Mohammaden, M. E. Fouda, Ihse Alouani, **Lobna A. Said**, and Ahmed G. Radwan, "CNTFET-based Ternary Multiply-and-Accumulate Unit," *Electronics*, vol. 11, no. 9, p. 1455, Apr. 2022.
63. S. M. Mohamed, Wafaa S. Sayed, **Lobna A. Said**, Ahmed G. Radwan "FPGA realization of fractals based on a new generalized complex logistic map," *Chaos, Solitons & Fractals*, vol. 160, p. 112215, Jul. 2022.
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