

CURRICULUM VITAE

Personal Data

Name : Ahmed M. Soliman
Date of Birth : November 22nd, 1943
Place of Birth : Cairo, Egypt
Nationality : Egyptian
Address : 20 El-Mansour Mohamed St.
Apt 51,
Zamalek, Cairo,
Egypt.
Telephone : (2-02) 27355482 (home) (02-01003090015 Mobile)
(2-02) 35678822
Fax : (2-02) 3572-3486
Email : asoliman@ieee.org
Soliman8@gmail.com

Education

- Ph.D. Electrical Engineering, University of Pittsburgh, USA, April 1970.
- M.S. Electrical Engineering, University of Pittsburgh, USA, December 1967.
- B.Sc. Electrical Engineering (Honors), Cairo University, Egypt, July 1964.

Professional Experience

9/2003-Present : Professor of Electronics, Electronics and
Communications Engineering Dept., Cairo University.
Egypt
9/1997 – 9/2003 : Professor and Chairman, Electronics and
Communications Engineering Dept., Cairo University.
9/91- 9/97 : Professor and Head Microelectronics Group,
Electronics and Communications Engineering Dept.,
Cairo University.
9/90 - 8/91 : Associate Dean of Engineering and Chairman
Electrical Engineering Dept., United Arab Emirates
University.
9/87 - 8/90 : Associate Dean of Engineering and Professor
Electrical Engineering Dept., United Arab Emirates
University.
9/85 - 9/87 : Professor and Chairman Electrical Engineering Dept.,
United Arab Emirates University.
5/81- 8/85 : Professor, Electronics and Communications
Engineering Dept. , Cairo University.
6/80- 5/81 : Associate Professor, Electrical Engineering
Dept. , Florida Atlantic University, USA.
11/75 - 5/81 : Associate Professor, Electronics and

- 9/70 - 11/75 : Communications Engineering Dept. , Cairo University.
 Assistant Professor, Electronics and
 Communications Engineering Dept. , Cairo University.
 9/66 - 4/70 : Teaching Assistant, Electrical Engineering Dept.
 University of Pittsburgh, USA..
 9/64- 8/66 : Teaching Assistant, Electrical Engineering Dept. ,
 Cairo University.

Visiting Full Time Appointments

- 6/79 - 6/80 : Florida Atlantic University, USA
 9/78 - 6/79 : San Francisco State University, California, USA

Adjunct Appointments

- 9/81 - 6/85 : Science Department, American University
 in Cairo.
 6/80 - 3/81 : Motorola, Fort Lauderdale, Florida (Master's
 Program, FAU, Division of Continuing Education)
 3/79 - 5/79 : University of California Extension, Davis, California.
 9/78 - 12/78 : Electrical and Computer Engineering Dept.,
 University of Santa Clara, California.
 9/75 - 5/78 : American University in Cairo.

Summer Appointments

- Summer 1987 : Visiting Scholar, Wien University, Austria.
 Summer 1985 : Visiting Scholar, Bochum University, Germany,
 Sponsored by DAAD.
 Summer 1970 : Research Analyst, Central Research, Rockwell
 Manufacturing Company, Pittsburgh, USA.

Summer Institutes

- Rensselaer Polytechnic Institute, Troy, New York, Nuclear Defense Design, Fallout Shelter Analysis and Environmental Engineering, Sponsored by Office of Civil Defense and the American Society of Engineering Education, Summer 1969.
- The Pennsylvania State University, University Park, Pennsylvania, "Foundations of Integrated Circuits", Sponsored by the National Institute of Science Foundation, Summer 1972.

Academic Services and Advisory Boards

- Member of the Editorial Board of the IET Proceedings Circuits, Devices and Systems till July 2017 and then promoted to Associate Editor.
- Member of the Editorial board of Analog Integrated Circuits and Signal Processing, Kluwer Academic Publishers.
- Member of the Editorial board of Electrical and Computer Engineering, Hindawi Publisher till March 2017.
- Member of the Editorial Board of the Open Signal Processing Journal.

- Member of the Editorial Board of Scientific Research and Essays, Academic Publisher
- Associate Editor IEEE Transaction on Circuits and Systems I, December 2001-December 2003.
- Associate Editor Journal of Circuits Systems and Signal Processing, January 2004-Now.
- Associate Editor of the Journal of Advanced Research (JAR) Cairo University.
- Guest Editor Special issue on: CMOS Analog Integrated Filters, Active and Passive Electronic Components 2011.
- Member of the Board of Directors of the Technology and Energy Research Center, United Arab Emirates University, Sept. 87- Aug 91.
- Member of the Advisory Panel for the Women in Science Program of the National Science Foundation, 1981.
- Member of the Advisory Committee of the Analog VLSI Workshop, Electronic Circuits, the Institute of Electrical Engineers of Japan, 1997-Now.
- Member of the Promotion Committee, Supreme Council of Universities, Arab Republic of Egypt, 1998- 2008.
- Editor IETE Journal of Education, Taylor and Francis since January 2018.

Reviewer for the Following Journals:

- IEEE Transactions on Circuits and Systems I.
- IEEE Transactions on Circuits and Systems II.
- IET Proceedings Circuits, Devices and Systems.
- Electronics Letters.
- Analog Integrated Circuits and Signal Processing.
- International Journal of Circuit Theory and Applications.
- International Journal of Electronics.
- Circuits, Systems and Signal Processing.
- Microelectronics Journal.
- Journal of Franklin Institute.
- Journal of Circuits Systems and Computers.
- Semiconductor Science and Technology.

Publications Information:

- Total number of Journal papers =380
- Total number of Conference papers presented = 110
- Total number of Book Chapters = 5
- Total number of Books = 11
- Total Impact Factor (IF) = 700.134

- Scopus Cited Documents = 450
- Scopus total Citations = 7867
- Scopus h-Index = 44

- Highest Scopus citation is 380 for a paper published in IEE in 1997.
- Google Scholar Cited Documents = 498
- Google Scholar Citations 10537
- Google Scholar h index 53
- Highest Google Scholar Citation is 551 for a paper published in IEE in 1997.

Graduate Supervision:

- Supervised 9 Ph.D. Students.
- Supervised 66 Master Students.

Professional Societies

- Life Senior Member, the Institute of Electrical and Electronic Engineers, USA (SR.M. 05636659)
- Member, Institute of Electronics, Information and Communication Engineers, Japan.

Honors and Awards

- The State Engineering Science Prize from the Scientific Research Academy, Egypt: for the year 1976.
- First Class Science Medal from the Egyptian President for services to the Field of Electrical Engineering and Engineering Education, 1977.
- Included in the fifth Edition of WHO's WHO in Engineering, 1982, the American Association of Engineering Societies, Inc. NY - USA.
- Included in WHO's WHO in the World, 2000.
- Certified by the Office of Civil Defense, Washington, D.C. as a Fallout Shelter Analyst, Certificate No. 2sl-2008-69.
- Received the Electronic Engineering 1998 Design Challenge Award from Maxim Integrated Products, United Kingdom.
- Served as a Member of the Examination committee of the Ph.D. Thesis of H. Aboushady, Design for Reuse of Current-Mode Continuous-Time Sigma-Delta Analog-to-Digital Converters. University of Pierre and Marie Curie, Paris VI, France, January 2002.
- Received the Excellency Award from Center of advancement of Post Graduate Studies and Researches in Engineering Sciences, Faculty of Engineering Cairo University for the years 1997-1998 for M.S Thesis of Hassan Elwan, 2000-2001 for M.S Thesis of Ali Ismail, 2002-2003 for M.S Thesis of Ahmed G Radwan , 2012-2014 for Ph.D Thesis of A. Soltan Ali and 2014-2016 for Ph.D Thesis of Lobna Said.
- Supervised E. S. Tawfik whose M.S Thesis received best Thesis Award from Cairo University 2007.
- The State Engineering Science Excellency Prize in Engineering Science from the Scientific Research Academy, Egypt for the year 2008.

- The State Engineering Science Appreciation Prize in Engineering Science from the Scientific Research Academy, Egypt for the year 2010.
- Received the First-Class Science Medal from the Egyptian President for the second time for services to Egypt 2013.
- Received Cairo University Excellency Award in Engineering for the year 2016.
- ICECS 2015 held an honoring Ceremony for Dr. Ahmed Soliman of Cairo University for his outstanding contributions for IEEE CAS society.
- Served as Honorary Chair for ICM Conference Cairo Egypt December 2016.
- Served as Honorary Chair as well as General Chair for ICM Conference Cairo Egypt December 2019.
- Recently, a report published by Stanford University on 16th October 2020, the "World's Top 2% Scientists List" based on Scopus Database for all fields. In the "Electrical & Electronic Engineering" field, Prof. Ahmed Soliman ranked as 36 worldwide and the first Egyptian on the list.
- Top 2% in all areas from Cairo University includes 55 Professors; Prof Ahmed Soliman ranked as number 1 in the list.

Inventions

- Dr. Soliman is the inventor (with Dr. Inas Awad) of the pathological Voltage Mirror and the pathological Current Mirror.
- Dr. Soliman is the inventor (with Dr. Inas Awad) of the family of the Inverting Current Conveyors which completes the set of CCII invented by Dr Sedra and Dr Smith.

Funded Projects

- Dr. Soliman is the consultant of the STDF funded project under title Two Port Fractional-Order Oscillators and Filters Suitable for Tissue Modeling. Budget: 336800 EGP, Nile University. The duration of this project is 2018-2020.
- Dr. Soliman is the consultant of the research project: Design and Implementation of Software and Hardware Speech Encryption Techniques, the duration of this project Sept. 2016 – Sept. 2017, and funded by Cairo University.

LIST OF PUBLICATIONS

A. BOOKS

- [1] Lobna Said, Ahmed Soliman, Ahmed Madian, Active realization of doubly terminated LC ladder filters using active building blocks, ISBN: 978-3-8465-2247-9, LAP Lambert Academic Publishing GmbH & Co. KG (www.lap-publishing.com), Oct. 2011.
- [2] Ramy Saad, Ahmed Soliman, Synthesis, Analysis, and Modeling of Analog Active Circuits- Generalized Symbolic Framework: Theory and Applications, ISBN: 978-3-8484-0778-1, LAP Lambert Academic Publishing GmbH & Co. KG (www.lap-publishing.com), 2012.
- [3] A. El-kafrawy, Ahmed M Soliman, Analog CMOS VLSI Circuits: CMOS OTRA and OFC Realizations and Applications, ISBN:13: 978-3-8454-2416-3, LAP Lambert Academic Publishing GmbH & Co. KG (www.lap-publishing.com), 2011.
- [4] S. Abdelaziz, Ahmed M. Soliman, Ahmed A. Emira, Low Start Up Voltage Charge Pump for Thermoelectric Energy Harvesting, ISBN:13: 978-3-8443-8498-7, LAP Lambert Academic Publishing GmbH & Co. KG, (www.lap-publishing.com) 2012.
- [5] A. Soltan, Ahmed M Soliman, Analog Design: CMOS Realizations of the Operational Mirror Amplifier and its applications, ISBN:13:978-3-659-29368-9, LAP Lambert Academic Publishing GmbH & Co. KG, (www.lap-publishing.com) 2012.
- [6] R.F.Ahmed, Ahmed M Soliman, Ahmed G. Radwan, Testing Methods for Fault Detection in Electronic Circuits, ISBN:13:978-3-659-38363-2 LAP Lambert Academic Publishing GmbH & Co. KG, (www.lap-publishing.com) 2014.
- [7] A. Soltan, Ahmed M Soliman, Ahmed G. Radwan, Analog Circuit Design in the Fractional Domain, ISBN-13:978-3-659-60691-5 LAP Lambert Academic Publishing GmbH & Co. KG, (www.lap-publishing.com) 2014.
- [8] N.A. Khalil, Ahmed M Soliman, Utilization of Genetic Algorithms to design Active Circuits Using Nullor and Mirror, Lap Lambert Publisher, ISBN-13 :978-3-659-78304-3, LAP Lambert Academic Publishing GmbH & Co. KG, (www.lap-publishing.com) 2015.
- [9] A. El-Bayoumi, Hassan Mostafa, Ahmed M. Soliman, Design of High-Performance Differential Voltage-to-Time Converters, ISBN-13:978-3-330-01237-0, LAP Lambert Academic Publishing GmbH & Co. KG, (www.lap-publishing.com) 2016.
- [10] Osama Abdelkader, Hassan Mostafa, Ahmed M. Soliman, Low Power FPGA Design Techniques at the Device and Circuit Levels, ISBN-13: 978-620-2-01013-9, LAP Lambert Academic Publishing GmbH & Co. KG, (www.lap-publishing.com) 2017.
- [11] Maha Beheiry, Ahmed Soliman, Hassan Mostafa, Designing and Implementing Three-dimensional Network on Chips: How to create and implement different 3D-NoCs, ISBN-13: 978-620-2-07776-7, LAP Lambert Academic Publishing GmbH & Co. KG, (www.lappublishing.com) 2017.

B. BOOK Chapters

- [1] Ahmed M Soliman author of Chapter 4 in the Textbook Analog Circuits: Applications, Design and Performance, Nova Science Publisher, ISBN: 978-1-61324-355-8
Chapter 4: Transconductance Amplifiers: NAM Realizations and Applications, pp. 93-119, Nov. 2011(Feb. 2012). Editor: Esteban Tlelo-Cuautle (INAOE, Mexico)
- [2] Ahmed M Soliman author of Chapter 4 in the Textbook Integrated Circuits for Analog Signal Processing, Springer 2013, ISBN:978-1-4614-1382-0. Chapter 4: Generation of Grounded Capacitors Minimum Component Oscillators, pp. 85-105.
Editor: Esteban Tlelo-Cuautle (INAOE, Mexico)
- [3] Ahmed M Soliman author of Chapter 10 in the Textbook Analog/RF and Mixed Signal Circuit Systematic Design, Springer 2013.
Chapter, Synthesis of Generalized Impedance Converter and Inverter Circuits Using NAM Expansion, pp. 223-242. ISBN: 978-3-642-36328-3
Editors: M. Fakhfakh, Esteban Tlelo-Cuautle, Rafael Castro-Lopez.
- [4] Ahmed M Soliman author of Chapter 7 in the Textbook Pathological Elements in Analog Circuit Design Springer. Applications of the Voltage Mirror-Current Mirror in Realizing Active Building Blocks, pp.173-203. ISBN- 978-3-319-75157-3 (eBook Editors: M. Fakhfakh, M. Pierzchala, 2018
- [5] L.A.Said, A. G. Radwan, A. H. Madian, and A. M. Soliman, Survey on Two-Port Network-Based Fractional-Order Oscillators, Fractional Order Systems Optimization, Control, Circuit Realizations and Applications Advances in Nonlinear Dynamics and Chaos: Academic Press, 2018.

C. JOURNAL PAPERS

- [1] N.K. Bose and A. M. Soliman, A Novel Approach to Synthesis of Multivariable Positive Real Functions, Electronics Letters, Vol. 5, No. No 26, pp. 717-718, December 1969.
- [2] N.K. Bose and A. M. Soliman, Lossless Multi-ports with Terminations in Synthesis Problems, Electronics Letters, Vol. 6, No. 4, pp. 100-102, February 1970.
- [3] A.M. Soliman and N.K. Bose, A Decomposition Theorem for Multivariable Reactance Functions, Proceedings IEEE, Vol. 59, pp. 309-311, February 1971.
- [4] A.M. Soliman and N.K. Bose, Synthesis of a Class of Multivariable Positive Real Functions Using Bott-Duffin Technique, IEEE Transactions on Circuit Theory, Vol. CT-18, pp. 288-290, March 1971.
- [5] A.M. Soliman, A New Generation of Positive Real Functions Using the Bessel polynomials, International Journal of Electronics, Vol. 31, No. 4, pp. 329-332, October 1971.
- [6] A.M. Soliman, Synthesis of a Class of Two Variable Positive Real Functions, International Journal of Electronics, Vol. 32, No. 4, pp. 455-461, April 1972.

- [7] A.M. Soliman, "Gyratorless Realization of Class of Three Variable Positive Real Functions", *International Journal of Electronics*, Vol. 32, No. 5, pp. 529-536, May 1972.
- [8] A.M. Soliman, "New Generalized-Immittance Converter Circuits Obtained by Using the Current Conveyor", *International Journal of Electronics*, Vol. 32, No. 6, pp. 673-679, June 1972.
- [9] A.M. Soliman, "Two New L-C Mutators and Their Realizations", *IEEE Transactions on Circuit Theory*, Vol. CT-19, pp. 371-372, July 1972.
- [10] A.M. Soliman, "Active RC Realization of Current Transfer Functions Using Voltage Generalized Immittance Conveyors", *International Journal of Electronics*, Vol. 33, No. 3, pp. 273-280, September 1972.
- [11] A.M. Soliman, "New Active RC Configuration for Realizing a Medium Selectivity Notch Filter", *Electronics Letters*, Vol. 8, No. 21, pp. 522-524, October 1972.
- [12] A.M. Soliman, "Inductorless Realization of an All-Pass Transfer Function Using the Current Conveyor", *IEEE Transactions on Circuit Theory*, Vol. CT-20, pp. 80-81, January 1973.
- [13] A.M. Soliman, "Realization of Operational-Amplifier All-Pass Networks", *Electronics Letters*, Vol. 9, No. 3, pp. 67-68, February, 1973.
- [14] A.M. Soliman, "New L-R Mutators and Their Models", *International Journal of Electronics*, Vol. 34, No. 6, pp. 735-756, June 1973.
- [15] A.M. Soliman, "Another Realization of an All-Pass or a Notch Filter Using a Current Conveyor", *International Journal of Electronics*, Vol. 35, No. 1, pp. 135-136, June 1973.
- [16] A.M. Soliman, "A Low Sensitivity Active RC Low pass Filter", *IEEE Transaction on Audio and Electro-acoustic*, Vol. AU 21, No. 4, pp. 372-374, August 1973.
- [17] A.M. Soliman, "Two Active RC Configurations for Realizing Non-Minimum Phase Transfer Functions", *International Journal of Circuit Theory and Applications*, Vol. 1, No. 3, pp. 293-299, September 1973.
- [18] A.M. Soliman, "A General Configuration for Realizing All-Pass or Notch Filters Using a Grounded Operational Amplifier", *International Journal of Electronics*, Vol. 35, No. 4, pp. 461-464, October 1973.
- [19] A.M. Soliman, "Active RC Low-Pass Filter Suitable for Integration", *International Journal of Electronics*, Vol. 36, No. 6, pp. 799-803, June 1974.
- [20] A.M. Soliman, "A New Active RC Configuration for Realizing Non-Minimum Phase Transfer Functions", *International Journal of Circuit Theory and Applications*, Vol. 2, No. 3, pp. 307-315, September 1974.
- [21] A.M. Soliman, "Active RC High Selectivity Notch Filter", *International Journal of Electronics*, Vol. 37, No. 4, pp. 565-567, October 1974.
- [22] A.M. Soliman, "A New Single Operational Amplifier Medium Selectivity Non-minimum Phase Network", *AEU-International Journal Electronics and Communication*, Vol. 28, No. 12, pp. 511-513, December 1974.
- [23] A.M. Soliman, "Conversion of a Bandpass Resonator to an All-Pass or a Notch Filter", *International Journal of Electronics*, Vol. 38, No. 4, pp. 559-562, April 1975.

- [24] A.M. Soliman, Simple Sinusoidal Active RC Oscillators, International Journal of Electronics, Vol. 39, No. 4, pp. 455-458, October 1975.
- [25] F. S. Atiya, A.M. Soliman and T.N. Saadawi, Active RC Bandpass and Low Pass Filters Using the DVCCS/DVCVS, Electronics Letters. Vol. 12, No. 4, pp. 360-361, July 1976.
- [26] A.M. Soliman, Generalized Immittance Inverters and Their Realizations, International Journal of Electronics Vol. 41, No. 1, pp. 59-64, July, 1976.
- [27] A.M. Soliman, Two Novel Active RC Canonic Bandpass Networks Using the Current Conveyor, International Journal of Electronics, Vol. 42, No. 1, pp. 49-54, January 1977.
- [28] A.M. Soliman and S. S. Awad, Canonical High Selectivity Parallel Resonator Using a Single Operational Amplifier and Its Applications in Filters, IEE Journal on Electronic Circuits and Systems, Vol. 1, No. 4, pp. 145-148, July 1977.
- [29] A.M. Soliman and M. Fawzy, A Universal Active R Filter, Electronic Engineering, Vol. 49, No. 594, pp. 49-50, July 1977.
- [30] A.M. Soliman and M. Fawzy, A Bandpass Filter Using the Operational Amplifier Pole, IEEE Journal of Solid State Circuits, Vol. SC-12, No. 4, pp. 429-430, August 1977.
- [31] F.S. Atiya, A.M. Soliman and T.N. Saadawi, Active RC Nonminimum phase Network Using the DVCCS/DVCVS, Proceedings IEEE, Vol. 65, No. 11, pp. 1606-1607, November 1977.
- [32] A.M. Soliman, On the Generation of Multivariable Positive Real Matrices, AEU-International Journal Electronics and Communication, Vol. 31, No. 12, pp. 510-512, December 1977.
- [33] A.M. Soliman and S. S. Awad, A Tunable Active Inductance Using a Single Operational Amplifier and Its Applications in Filters, AEU-International Journal Electronics and Communication, Vol. 32, No. 1, pp. 44-48, January 1978.
- [34] A.M. Soliman and S. S. Awad, A Novel Sine Wave Generator Using a Single Operational Amplifier, Proceedings IEEE, Vol. 66, No. 2, pp. 253-254, February 1978.
- [35] A.M. Soliman and M. Fawzy, Active R Resonator Realization, Proceedings IEEE, Vol. 66, No. 2, pp. 254-255, February 1978.
- [36] A.M. Soliman, Realizations of Ideal FDNC and FDNR Elements Using New Types of Mutators, International Journal of Electronics, Vol. 44, No. 3, pp. 317-323, March 1978.
- [37] A.M. Soliman, Inductorless All-Pass Phase Shifter Using a Single Input Operational Amplifier, L'onde Electrique, Vol. 58, No. 3. pp. 238- 240, March 1978.
- [38] A.M. Soliman and M. Fawzy, A Universal Active R Biquad, International Journal of Circuit Theory and Applications, Vol. 6, No. 2, pp. 153-157, April 1978.

- [39] A.M. Soliman and S. S. Awad, A Canonical Voltage Controlled Oscillator Realized Using a Single Operational. Amplifier, *Frequenz*, Vol. 32, No. 5, pp. 153-154, May 1978.
- [40] A.M. Soliman and S.S. Awad, New Conversion Methods for Realizing Nonminimum Phase Transfer Functions, *Proceedings IEEE*, Vol. 66, No. 5, pp. 588-590, May 1978.
- [41] A.M. Soliman and M. Ismail, Phase Correction in Two-Integrator Loop Filters Using a Single Compensating Resistor, *Electronics Letters*, Vol. 14, No. 12, pp. 375-376, June 1978.
- [42] F. S. Atiya, A.M. Soliman and T.N. Saadawi, A Universal Second Degree Two Port Network Using a Single Operational Amplifier, *Alta Frequenza*, Vol. XLVII, No. 7, pp. 342-347, July 1978.
- [43] A.M. Soliman, Novel Variable Frequency Sinusoidal Oscillator Using a Single Current Conveyor, *Proceedings IEEE*, Vol. 66, No. 7, p. 800, July 1978.
- [44] A.M. Soliman and M. Fawzy, A New Active R Bandpass Filter, *Journal of the Franklin Institute*, Vol. 306, No. 2, pp. 159-163, August 1978.
- [45] A.M. Soliman, A Novel Inductor Simulation Using the Pole of the Operational Amplifier, *Frequenz*, Vol. 32, No. 8, pp. 239-240, August 1978.
- [46] A.M. Soliman, A Grounded Inductance Simulation Using the DVCCS/DVCVS, *Proceedings IEEE*, Vol. 66, No. 9, pp. 1089-1091, September 1978.
- [47] A.M. Soliman, Ford- Girling Equivalent Circuit Using CC II, *Electronics Letters*, Vol. 14, No. 22, pp. 721-722, October 1978.
- [48] A.M. Soliman, A New Single Operational Amplifier Active RC Bandpass Network with Reduced Sensitivity to Amplifier Gain-Bandwidth Product, *International Journal of Circuit Theory and Applications*, Vol. 6, No. 4, pp. 321-326, October 1978.
- [49] A.M. Soliman, New Active Gyrator Circuit Using a Single Current Conveyor, *Proceedings IEEE*, Vol. 66, No. 11, pp. 1580-1581, November 1978.
- [50] A.M. Soliman and M. Ismail, Op-Amp Integrators with Infinite Q- factor, *Frequenz.*, Vol. 32, No.11, pp. 331-334, November 1978.
- [51] A.M. Soliman, Realization of Frequency Dependent Negative Resistance Circuits Using Two Capacitors and a Single Current Conveyor, *Proceedings IEE*, Vol. 125, No. 12, pp. 1336-1337, December 1978.
- [52] A.M. Soliman and S. A. Badre, A Universal Notch Filter, *International Journal of Circuit Theory and Applications*, Vol. 7, No. 1, pp. 139-142 January 1979.
- [53] M. Nomair, Y. Bahnas and A.M. Soliman, Noise Relations of Inverse Active Networks and Complementary Networks, *Electronics Letters*, Vol. 15, No. 1, pp. 18-20, January 1979.
- [54] A.M. Soliman and M. Ismail, Novel Passive and Active Compensated Deboo Integrators, *Proceedings IEEE*, Vol. 64, No. 2, pp. 324-325, February 1979.
- [55] A.M. Soliman, A Modified Canonic Active RC Band-pass Filter with Reduced Sensitivity to Amplifier Gain Bandwidth Product, *Proceedings IEEE*, Vol. 67, No. 2, pp. 325-326, February 1979.

- [56] A.M. Soliman and M. Ismail, Active Compensation of Op Amps, IEEE Transactions Circuits and Systems, Vol. CAS-26, Vol. 2, pp. 112-117, February 1979.
- [57] A.M. Soliman and S.S. Awad, A Modified Sine-Wave Generator Using a Single Operational Amplifier, Electronic Engineering, Vol. 51, No. 618, p. 17, February 1979.
- [58] A.M. Soliman, A Modified Wien Bridge Oscillator, Journal of Applied Science and Engineering, The Netherlands, Vol. 3, pp. 277-279, 1979.
- [59] A.M. Soliman, A New Active C Differential Input Integrator Using the DVCCS/DVCVS, International Journal of Circuit Theory and Applications, Vol. 7, No. 2, pp. 272- 275, April 1979.
- [60] A.M. Soliman, Active Compensated Band-Pass Filter with Reduced Sensitivity to Op Amp Gain Bandwidth Product, Frequenz, Vol. 33, No. 6, pp. 149-151, May 1979.
- [61] A.M. Soliman and M. Ismail, On the Active Compensation of Non-inverting Integrators, Proceedings IEEE, Vol. 67, No. 6, pp. 961-963, June 1979.
- [62] A.M. Soliman, A Generalized Active Compensated Non-inverting VCVS with Reduced Phase Error and wide Bandwidth, Proceedings IEEE, Vol. 67, No. 6, pp. 963-965, June 1979.
- [63] A.M. Soliman and M. Ismail, A Novel Active Compensation Method of Op Amp VCVS Structures, AEU-International Journal Electronics and Communication, Vol. 33, No. 9, pp. 378-379, September 1979.
- [64] A.M. Soliman, A New Realization of the FDNC Using the DVCCS/DVCVS, AEU-International Journal Electronics and Communication, Vol. 33, No. 10, pp. 423-424, October 1979.
- [65] A.M. Soliman, Novel Generalized Differential Integrator with Controlled Phase Lead, Proceedings IEEE, Vol. 67, No. 10, pp. 1449-1451, October 1979.
- [66] A.M. Soliman, Active Phase Compensation of Op Amp VCCS Structures, Proceedings IEEE, Vol. 67, No. 10, pp. 1451-1452, October 1979.
- [67] A.M. Soliman and M. Ismail, Passive Compensation of Op-Amp VCVS and weighted Summer Building Blocks, IEEE Transactions Circuits and Systems, Vol. CAS-26, pp. 898-900, October 1979.
- [68] A.M. Soliman and M. Fawzy, Some Partially Active R Filter Circuits, Electronic and Radio Engineers, Vol. 49, No. 11, pp. 587-590, November 1979.
- [69] A.M. Soliman and M. Ismail, A Novel Passive Compensated Inverting weighted Summer, International Journal of Circuit Theory and Applications, Vol. 8, No. 1, pp. 81-85, January 1980.
- [70] A.M. Soliman, A Generalized Active R Weighted Summer, Alta Frequenza, Vol. XLIX-N. 1, pp. 35-38, January-February 1980.
- [71] A.M. Soliman, Phase Correction in Two-Integrator Loop Filters Using a New Variable Phase Inverting Amplifier, Electronics Letters, Vol. 16, No. 5, pp. 186-188, February 1980.
- [72] A.M. Soliman, Novel 2 OA-Three Resistor Variable Phase Inverting Amplifier and Its Application to High-Q Active Filters, Electronics Letters, Vol. 16, No. 8, pp. 294-295, April 1980.

- [73] A.M. Soliman, Novel Phase Lead Inverting Integrator and its Application in Two Integrator Loop Filters, *Electronics Letters*, Vol. 16 No. 12, pp. 475-476, June 1980.
- [74] A.M. Soliman, Economical wide-Band Voltage Controlled Voltage Source, *International Journal of Electronics*, Vol. 49, No. 1, pp. 77-81, July 1980.
- [75] A.M. Soliman, A Comment on Additional Types of Mutators and Active RC Synthesis Using Mutators, *International Journal of Electronics*, Vol. 49, No. 1, p. 83, July 1980.
- [76] A.M. Soliman, Comments on: Realization of an All-Pass Transfer Function Using the Second Generation Current Conveyor, *Proceedings IEEE*, Vol. 68, No. 8, p. 1035, August 1980.
- [77] A.M. Soliman, A Novel Active Phase Compensated Inverting Amplifier, *Frequenz*, Vol. 34, No. 8, pp. 238-240, August 1980.
- [78] A.M. Soliman, Passive Compensation of Inverting VCCS Structures, *Frequenz*, Vol. 34, No. 9, pp. 246-248, September 1980.
- [79] A.M. Soliman, Classification and Generation of Active Compensated Non-inverting VCVS Building Blocks, *International Journal of Circuit Theory and Application*, Vol. 8, No. 4, pp. 395-405, October 1980.
- [80] A.M. Soliman, Novel Grounded C Biquad Circuits Using the DVCCS/DVCVS, *Frequenz*, Vol. 34, No. 10, pp. 288-291, October 1980.
- [81] A.M. Soliman, Two Integrator Loop Filters with Stable Q-factor, *Frequenz*, Vol. 35, No. 1, pp. 19-22, January 1981.
- [82] A.M. Soliman, Novel Phase Compensated Three Port VCVS without Matched Operational Amplifiers", *Electronics Letters*, Vol. 17, No. 2, pp. 68-69, January 1981.
- [83] A.M. Soliman, Phase Compensation of Non-inverting VCCS Structures, *L'Onde Electrique*, Vol. 61, No. 2, pp. 50-52, February 1981.
- [84] A.M. Soliman, Instrumentation Amplifiers with Improved Bandwidth, *IEEE Circuits and Systems Magazine*, Vol. 3, pp. 7-9, March 1981.
- [85] F.S. Atiya, A.M. Soliman, and T.N. Saadawi, Universal Second Order Filter Uses Single Op-Amp, *Electronics & Wireless World*, pp. 79-82, May 1981.
- [86] A.M. Soliman, Generation, Classification and Application of Inverting Amplifier Structures, *AEU-International Journal Electronics and Communication*, Vol. 55, pp. 311-320, July-August 1981.
- [87] A.M. Soliman, Design of High Frequency Three Port VCVS Structures, *Frequenz*, Vol. 35, pp. 202-210, August 1981.
- [88] A.M. Soliman, Comment on: Active Simulation of Grounded Inductors Using a Single Current Conveyor, *IEEE Transactions Circuits Systems*, Vol. CAS-28, p. 1024, October 1981.
- [89] A.M. Soliman, A New Phase Compensated Three Port VCVS with Controlled Gain Difference, *L'Onde Electrique*, Vol. 61, pp. 39-41, December 1981.
- [90] A.M. Soliman, Active Compensated Summers Without Matched Operational Amplifier, *IEEE Circuits and Systems Magazine*, Vol. 4, pp. 26-27, June 1982.
- [91] A.M. Soliman, Novel Variable Phase Inverting Integrator, *Frequenz*, Vol. 36, pp. 272-274, October 1982.

- [92] A.M. Soliman, Active Compensation of the Voltage Follower, *Frequenz*, Vol. 36, pp. 328-332, December 1982.
- [93] A.M. Soliman, Design of High Frequency Active Compensated Weighted Summer, *L'Onde Electrique*, Vol. 63, pp. 55-56, January 1983.
- [94] A.M. Soliman, Active Compensation of the Three Port VCVS Networks, *Frequenz*, Vol. 37, pp. 162-163, June 1983.
- [95] A.M. Soliman, Design of High Frequency Amplifiers, *IEEE Circuits and Systems Magazine*, Vol. 5, pp. 9-11, June 1983.
- [96] A.M. Soliman, A New Phase and Magnitude Compensated Weighted Summer Using Three Operational Amplifiers, *International Journal of Circuit Theory and Applications*, Vol. 11, pp. 339-354, July 1983.
- [97] A.M. Soliman and M. Ismail, A New Active Compensated Differential Integrator without Matched Operational Amplifiers, *International Journal of Circuit Theory and Applications*, Vol. 11, pp. 406-410, October 1983.
- [98] A.M. Soliman, Design of High Frequency Active Compensated Weighted Summer, *Electronics & Wireless World*, pp. 58-59, February 1984.
- [99] A.M. Soliman, Two Equivalent Phase and Magnitude Compensated Infinite Input Impedance Inverting Amplifiers, *Frequenz*, Vol. 38, pp. 97-98, April 1984.
- [100] A.M. Soliman, Novel Active compensated Weighted Summer, *Electronics Letters*, Vol. 20, pp. 366-367, April 1984.
- [101] E.A. Talkhan, A.M. Soliman and T.H. El-Fayoumi, A New Family of Active RC Variable Equalizers, *Electronics Letters*, Vol. 20, pp. 497-498, June 1984.
- [102] A.M. Soliman, Novel Phase and Magnitude Compensated Non-Inverting Voltage Amplifiers, *Frequenz*, Vol. 40, pp. 71-72. March 1986.
- [103] A.M. Soliman, Novel Phase and Magnitude Compensated Inverting Voltage Amplifiers, *Frequenz*, Vol. 40, pp. 155-157, June 1986.
- [104] A.M. Soliman, Active Op-Amp Compensation, *Electronics & Wireless World*, Vol. 92, pp. 49-50, November 1986.
- [105] A.M. Soliman, New Active Compensated Non-Inverting and Inverting Amplifier Circuits, *Frequenz*, Vol. 41, pp. 60-62, March 1987.
- [106] A.M. Soliman, Building Blocks for Active Op-Amp Compensation, *Electronics & Wireless World*, Vol. 93, pp. 486-488, May 1987.
- [107] A.M. Soliman, Generation of Actively Compensated Non-Inverting Amplifiers, *Frequenz*, Vol. 41, pp. 238-245, Sept. 1987.
- [108] A.M. Soliman, First Order Building Block and their Applications in Active Compensation, *AMSE Periodicals on Modelling, Simulation and Control*, A, France, Vol. 16, pp. 1-12, 1988.
- [109] A.M. Soliman, M.H. Al-Shamma'a and M.S. Dak Al-Bab, Active Compensation of RC Oscillators, *Frequenz*, Vol. 42, pp. 325-332, November-December 1988.
- [110] A.M. Soliman, Kerwin - Huelsman - Newcomb Circuit Using Current Conveyors, *Electronics Letters*, Vol. 30, pp. 2019 - 2020, November 1994.

- [111] I.A. Awad, S.Y. Abd-El Gawad and A.M. Soliman, Simplified Formulas for $\frac{\Delta\omega_0}{\omega_0}$ and $\frac{\Delta Q}{Q}$ Based on Budak - Petrela's Method, IEEE Transactions Circuits and Systems I, Vol. CAS-42, pp 186 - 187 March 1995.
- [112] A.M. Soliman, Current Conveyors Steer Universal Filter, IEEE Circuits and Devices Magazine, Vol. 11, pp. 45-46, March 1995.
- [113] A.M. Soliman, Theorem Relating a Class of Op-Amp and Current Conveyor Circuits, International Journal of Electronics, Vol. 79, pp. 53-61, July 1995.
- [114] A.M. Soliman, Current Mode Universal Filter, Electronics Letters, Vol. 31, pp. 1420 - 1421, August 1995.
- [115] H.O. Elwan, S.A. Mahmoud and A.M. Soliman, Voltage Controlled Square law Grounded MOS Resistor, Electronic Engineering, pp. 34, 38, November 1995.
- [116] A.M. Soliman, Voltage Integrators Using Op-Amps, Current Conveyors and Transconductance Amplifiers, AEU-International Journal Electronics and Communication, Vol. 50, pp. 46-68, January 1996.
- [117] A.M. Soliman, Comment on "The single CC II Biquads With High Input Impedance" IEEE Transactions Circuits and Systems, Vol. CAS-43, p. 65, Jan. 1996.
- [118] A.M. Soliman, New Current Mode Notch and All-Pass Circuits Using the Current Conveyor, AEU-International Journal Electronics and Communication, Vol. 50, pp. 224-226, May 1996.
- [119] H.O. Elwan and A.M. Soliman, Switched Capacitor Circuits Using the Current Feedback Op-Amp, Electronic Engineering, pp 37-38, May 1996.
- [120] A.M. Soliman, Synthesis of Current Transfer Functions Based on New Realizations of the Basic Zero and the Basic Pole Sections, Alta Frequenza, Vol. 8, No. 4, pp. 41-42, July - August 1996.
- [121] A.M. Soliman, New Band-pass – Low-pass Filters Using CCII, Frequenz, Vol. 50, pp 181-182, July - August 1996.
- [122] A.M. Soliman, Mixed Mode Biquad Circuits, Microelectronics Journal, Vol. 27, pp. 591-594, Sept. 1996.
- [123] H.O. Elwan and A.M. Soliman, A Novel CMOS Current Conveyor Realization with an Electronically Tunable Current Mode Filter Suitable for VLSI, IEEE Transactions Circuits and Systems II, Vol. CAS-43, pp. 663-670, September 1996.
- [124] H.O. Elwan and A.M. Soliman, A CMOS Differential Current Conveyor and Applications for Analog VLSI, Analog Integrated Circuits and Signal Processing, Vol. 11, pp. 35-45, September 1996.
- [125] H.O. Elwan, S.A. Mahmoud and A.M. Soliman, CMOS Voltage Controlled Floating Resistor, International Journal of Electronics, Vol. 81, pp. 571-576, November 1996.
- [126] A.M. Soliman, New Inverting – Non-inverting Band-pass and Low-pass Biquad Circuit Using Current Conveyors, International Journal of Electronics, Vol. 81, pp 577-583, November 1996.

- [127] A.M. Soliman, Applications of the Current Feedback Operational Amplifiers, Analog Integrated Circuits and Signal Processing, Vol. 11, pp. 265-302, November 1996.
- [128] A.M. Soliman, A Linear Transconductor - Multiplier Using a Matched Pair of MOS Transistors and a Current Conveyor, Frequenz, Vol. 50, pp 292-293, November-December 1996.
- [129] A.M. Soliman, New Current Mode Universal Filters Using Single Output Current Conveyors, Alta Frequenza, Vol. 8, pp. 42-44, November-December 1996.
- [130] S.A. Mahmoud, H.O. Elwan and A.M. Soliman, Grounded MOS Resistor, Electronic Engineering, pp. 22, 24, January 1997.
- [131] A.S. Elwakil and A.M. Soliman, Chaos From a Family of Minimum Component Oscillators, Chaos, Solutions & Fractals, Vol. 8, pp. 335-356, March 1997.
- [132] A.S. Elwakil and A.M. Soliman, Chaos From Two Modified Oscillator Configurations Using a Current Feedback Op Amp, Chaos, Solitons & Fractals, Vol. 8, pp. 389-410, March 1997.
- [133] A.M. Soliman, Generation of Current Conveyor Based All-Pass Filters from Op-Amp Based Circuits, IEEE Transactions Circuits and Systems II, Vol. CAS-44, pp. 324-330, April 1997.
- [134] A.M. Soliman, Theorems Relating to Port Interchange in Current Mode CCII Circuits, International Journal of Electronics, Vol. 82, No.6, pp. 585-604, June 1997.
- [135] S.A. Mahmoud and A.M. Soliman, A CMOS Programmable Balanced Output Transconductor For Analog Signal Processing, International Journal of Electronics, Vol. 82, No.6, pp. 605-620, June 1997.
- [136] H.O. Elwan and A.M. Soliman, A Novel CMOS Differential Voltage Current Conveyor and its Applications, IEE Proceedings, Circuits, Devices and Systems, Vol. 144, pp. 195-200, June 1997.
- [137] A.M. Soliman, A Low Sensitivity Grounded-Capacitor Current Mode Band-pass Filter, Electronic Engineering, Vol. 69, pp. 18, 20, July 1997.
- [138] A.M. Soliman, New Current Mode Filters Using Current Conveyors, AEU-International Journal Electronics and Communication, Vol. 51, pp. 275-278, September 1997.
- [139] H.O. Elwan and A.M. Soliman, Low-Voltage Low-Power CMOS Current Conveyors, IEEE Transactions Circuits and Systems I, Vol. CAS-44, pp. 828-835, September 1997.
- [140] A.S. Elwakil and A.M. Soliman, Current Mode Chaos Generator, Electronics Letters, Vol. 33, pp. 1661-1662, September 1997.
- [141] S.A. Mahmoud and A.M. Soliman, A New CMOS Realization of the Differential Difference Amplifier and its Application to a MOS-C Oscillator, International Journal of Electronics, Vol. 83, pp. 455-465, October 1997.
- [142] A.M. Soliman, Wien Oscillators Using Current Feedback Op Amps, AEU-International Journal Electronics and Communication, Vol. 51, No. 6, pp 314-319, November 1997.

- [143] S.A. Mahmoud, H.O. Elwan and A.M. Soliman, Generation of CMOS Voltage Controlled Floating Resistors, *Microelectronics Journal*, Vol. 28, No. 6, 7, pp. 627-640, November 1997.
- [144] A.S. Elwakil and A.M. Soliman, New Chaos Generator, *Chaos, Solitons & Fractals* Vol. 8, No. 12, pp. 1921-1932, December 1997.
- [145] A.S. Elwakil and A.M. Soliman, A Family of Wien Type Oscillators Modified for Chaos, *International Journal of Circuit Theory and Applications*, Vol. 25, pp. 561-579, December 1997.
- [146] H.O. Elwan and A.M. Soliman, A CMOS CCII Cell for Digital Sea of Gates Circuits, *Electronic Engineering*, Vol. 69, No. 852, pp. 26,28 , December 1997.
- [147] A.M. Soliman, Port Interchange in Voltage Mode Current Conveyor Based Filters, *Journal of Circuits, Systems and Computers*, Vol.7,No. 6, pp. 543-561, December 1997.
- [148] S.A. Mahmoud and A.M. Soliman, The Differential Difference Operational Floating Amplifier: A New Block for Analog Signal Processing, *IEEE Transactions Circuits and Systems II*, Vol. 45, pp. 148-158, January 1998.
- [149] A.M. Soliman, Equal-R, Equal-C Current Mode Butterworth Low-pass Filters, *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences (Japan)*, Vol. E81- A. No.2 , pp. 340-342 , February 1998.
- [150] A.M. Soliman, Current Conveyor Filters: Classification and Review, *Microelectronics Journal*, Vol. 29, No. 3, pp 133-149, March 1998.
- [151] A.M. Soliman and A.S. Elwakil, A New Generalized Oscillator, *Electronic Engineering*, Vol. 70, No. 855, pp. 20-22 , March 1998.
- [152] A.S. Elwakil and A.M. Soliman, Two Twin-T Based Op Amp Oscillators Modified for Chaos, *Journal of the Franklin Institute*, Vol. 335B, No. 4, pp. 771-787, May 1998.
- [153] S.A. Mahmoud and A.M. Soliman, Novel MOS-C Balanced –Input Balanced-Output Filter using the Current Feedback Operational Amplifier ,*International Journal of Electronics*, Vol 84,No 5, pp. 479-485,May 1998.
- [154] A.M. Soliman, Generalized Voltage and Current Conveyors: Practical Realizations Using CCII, *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences (Japan)*, Vol.E81, No. 5, pp. 973-975, May 1998.
- [155] A.M. Soliman, Follower Based Butterworth Low-pass Filters, *Electronic Engineering*, Vol. 70, No. 858 , pp.18-20, June 1998.
- [156] A. S. Elwakil and A.M. Soliman , Two Modified for Chaos Negative Impedance Converter Op Amp Oscillators with Symmetrical and Anti-symmetrical Non-Linearity's, *Int. J. Bifurcation and Chaos*, Vol. 8 , pp. 1335-1346 , June 1998.
- [157] A.M. Soliman, New Grounded Capacitor Current Mode Oscillators Using Single Output CCII's , *Journal of Circuits, Systems and Computers*, Vol. 8, No. 3, pp. 363-378, June 1998.
- [158] A.M. Soliman, A New Filter Configuration using Current Feedback Operational Amplifier *Microelectronics Journal*, Vol. 29, No 7,pp 409-419, July 1998.

- [159] A.M. Soliman, Novel Oscillators Using Current and Voltage Followers , Journal of Franklin Institute, Vol. 335B, No. 6, pp. 997-1007, August 1998.
- [160] A.M. Soliman, Generation of Current Conveyor Based Low-pass Filters from Passive RLC Filter , Journal of Franklin Institute, Vol. 335B, No 7, pp. 1283-1297, Sept.1998.
- [161] A.M. Soliman, Generation of CCII and CFOA Filters From Passive RLC Filters , International Journal of Electronics, Vol. 85, No. 3, pp. 293-312, September 1998.
- [162] A.M. Soliman, Current Mode CCII Oscillators Using Grounded Capacitors and Resistors , International Journal of Circuit Theory and Applications, Vol. 26, No. 5, pp. 431-438, Sept.-Oct. 1998.
- [163] A. M. Soliman, MOS-C Integrators Use Current Feedback Op-Amps, Electronic Engineering, Vol. 70, No. 861, pp. 22-24, September 1998.
- [164] K.N. Salama and A. M. Soliman, Active RC Filters using Operational Trans-resistance Amplifiers, Journal of Circuits, Systems and Computers, Vol. 8, No. 4, pp. 507-516, September 1998.
- [165] A.M. Soliman , Current Mode Oscillators Using Single Output Current Conveyors , Microelectronics Journal , Vol. 29 .No. 11 , pp. 907- 912 , November 1998.
- [166] A.M. Soliman , Novel Generation Method of Current Mode Wien Type Oscillators using Current Conveyors, International Journal of Electronics, Vol. 85, No. 6, pp.737-747, December 1998.
- [167] A.M. Ismail and A. M. Soliman, Wideband CMOS Current Conveyor, Electronics Letters, Vol. 34, No.25, pp. 2368-2369, December 1998.
- [168] S.A. Mahmoud and A. M. Soliman, CMOS Balanced Output Transconductor and Applications for Analog VLSI, Microelectronics Journal, Vol.30, No.1 , pp. 29-39, January 1999.
- [169] A.M. Soliman and A.S. Elwakil, Wien Oscillators Using Current Conveyors, Computers and Electrical Engineering, Vol. 25, No. 1 , pp. 45-55 , January 1999.
- [170] S.A. Mahmoud and A.M. Soliman , New CMOS Fully Differential Difference Transconductor and Applications to Fully Differential Filters Suitable for VLSI , Microelectronics Journal, Vol. 30, No.2, pp. 169-192, February 1999.
- [171] K.N. Salama and A. M. Soliman, Universal Filters Using Operational Trans-resistance Amplifiers , AEU-International Journal Electronics and Communication, Vol. 53, No.1, pp. 49-52, February 1999.
- [172] K.N. Salama and A. M. Soliman, CMOS Operational Trans-resistance Amplifier For Analog Signal Processing , Microelectronics Journal, Vol. 30, No.3, pp.235-245, March 1999.
- [173] A.S. Elwakil and A. M. Soliman, Current Conveyor Chaos Generators, IEEE Transactions on Circuits and Systems, CAS I, Vol. 46, No. 3, pp. 393-398, March 1999.
- [174] A.M. Ismail and A.M. Soliman, Novel CMOS Voltage Mode Absolute Value Circuit, AEU-International Journal Electronics and Communication, Vol. 53, No. 2, pp. 114-116, March 1999.

- [175] A.M. Soliman, New All-Pass and Notch Filters Using Current Conveyors, *Frequenz*, Vol.53, No.3, 4, pp. 84-86, March 1999.
- [176] I. A. Awad and A. M. Soliman , Inverting Second Generation Current Conveyors: The Missing Building Blocks, CMOS Realizations and Applications, *Int. J. of Electronics*, Vol. 86, No. 4, pp. 413-432, April 1999.
- [177] I. A. Awad and A. M. Soliman , New CMOS Realization of the CCII-, *IEEE Transaction on Circuits and Systems II*, Vol. 46, pp. 460-464, April 1999.
- [178] A.M. Soliman, Synthesis of Grounded Capacitor and Grounded Resistor Oscillators, *Journal of Franklin Institute*, Vol. 336, No. 4, pp. 735-746, May 1999.
- [179] S.A. Mahmoud and A.M. Soliman , A New CMOS Programmable Balanced Output Transconductor and Application to a Mixed Mode Universal Filter, *Analog Integrated Circuits and Signal Processing*, Vol. 19, No. 3 , pp. 241-254, June 1999.
- [180] K.N. Salama, A.M. El-Tawil, A.M. Soliman and H.O. Elwan, CMOS Programmable Imager Implementing Pre-Processing Operations , *Analog Integrated Circuits and Signal Processing*, Vol.19, No. 3, pp. 279-293, June 1999.
- [181] A.S. Elwakil and A. M. Soliman ,Mathematical Models of the Twin T, Wien Bridge and Family of Minimum Component Chaos Generators with Demonstrative Recurrence Plots, *Chaos, Solitons and Fractals*, Vol. 10, No. 8, pp. 1399-1412, August 1999.
- [182] A.M. Ismail, S.K. El-Meteny and A.M. Soliman, A New Family of Highly Linear Transconductors based on the Current Tail Differential Pair , *Microelectronics Journal*, Vol.30 ,No.8, pp. 753-767, August 1999.
- [183] A.M. Ismail and A. M. Soliman, Novel CMOS Linearized Balanced Output Transconductance Amplifier Based on Differential Pairs , *Frequenz*, Vol. 53, No.7,8 , pp. 170-174, July-August 1999.
- [184] D.A. El-Dieb, H.A. Elsimery and A. M. Soliman , An FPGA Design and Implementation of a Dynamic Instruction Set Processor , *Journal of Engineering and Applied Science*, Cairo University, Vol. 46, No. 4, pp. 729-741, August 1999.
- [185] M.H. Eltawil and A. M. Soliman, New Precise SPICE Macro-Models for the Current Feedback Operational Amplifier, *Microelectronics Journal*,Vol.30, No. 9, pp. 841-849, September 1999.
- [186] H.O. Elwan, A.A.El Adawy, M. Ismail, H.K. Olsson and A.M. Soliman, Digitally Controlled Db-Linear CMOS Variable Gain Amplifier, *Electronics Letters*, Vol. 35,No. 20, pp. 1725-1727, September 1999.
- [187] S.A. Mahmoud, A.S. Elwakil and A. M. Soliman , CMOS CFOA based Chaos Generators using Novel Active Nonlinear Voltage Controlled Resistors with Odd Symmetrical Characteristics, , *International Journal of Electronics*, Vol. 86, pp. 1441-1451, October 1999.
- [188] A.M. Ismail and A.M. Soliman, Novel CMOS Current Conveyor Realizations Suitable for High Frequency Applications, *Microelectronics Journal*, Vol. 30, No. 12, pp. 1231-1239, December 1999.

- [189] S.A. Mahmoud and A. M. Soliman, New MOS-C Biquad Filter Using the Current Feedback Operational Amplifier, IEEE Transactions on Circuits and Systems I, Vol. 46, No. 12, pp.1510-1512, December 1999.
- [190] K.N. Salama and A.M. Soliman, Novel Oscillators Using the Operational Trans-resistance Amplifier, Microelectronics Journal, Vol. 31, No. 1, pp. 39-47, January 2000.
- [191] A.M. Ismail and A. M. Soliman, Low-Power CMOS Current Conveyor, Electronics Letters, Vol. 36, No. 1, pp .7-8, January 2000.
- [192] A.A. El-Adawy, H.O. Elwan and A.M. Soliman , Low Voltage Fully Differential CMOS Voltage Mode Digitally Controlled Variable Gain Amplifier , Microelectronics Journal, Vol. 31, No. 2, pp. 139-146, February 2000.
- [193] A. A. El-Adawy and A. M. Soliman , A Low Voltage Single Input Class AB Transconductor With Rail-To-Rail Input Range, IEEE Transactions On Circuits and Systems I, Vol. 47, No.2, pp. 236-242, February 2000.
- [194] S. A. Mahmoud and A. M. Soliman, Novel MOS-C Oscillators Using the Current Feedback Op-amp, International Journal of Electronics, Vol. 87, No. 3, pp. 269-280, March 2000.
- [195] A. M. Ismail and A. M. Soliman ,Novel CMOS Linear Transconductance Element Using Adaptively Biased Source-Coupled Differential Pair, AEU-International Journal Electronics and Communication, Vol. 54, No. 2, pp. 87-92, March 2000.
- [196] K.N. Salama and A. M. Soliman, Voltage Mode Kerwin-Huelsman-Newcomb Circuit using CDBAs, Frequenz, Vol.54, No 3-4,pp 90-93, March-April 2000.
- [197] A.A. El-Adawy, A. M. Soliman and H.O. Elwan, A Novel Fully Differential Current conveyor and Applications for Analog VLSI , IEEE Transactions On Circuits and Systems II, Vol.47, No.4, pp. 306- 313, April 2000.
- [198] A. M. Soliman, Current Feedback Operational Amplifier based Oscillators, Analog Integrated Circuits and Signal Processing, Vol. 23, No. 1, pp. 45-55, April 2000.
- [199] A. M. Soliman, Three Oscillator Families Using the Current Feedback Op-Amp, Frequenz, Vol. 54, No. 5-6, pp. 126-131, May- June 2000.
- [200] A. M. Ismail and A. M. Soliman, Novel CMOS Current Feedback Op-amp Realization Suitable for High Frequency Applications, IEEE Transaction on Circuits and Systems I, Vol. 47, No. 6, pp. 918-921, June 2000.
- [201] A.M. El-Tawil and A.M. Soliman , A Low Voltage Low-Power Rail-to-Rail Constant gm Transconductance Amplifier, Analog Integrated Circuits and Signal Processing, Vol. 24, No. 2, pp.129-139, July 2000.
- [202] I. A. Awad and A. M. Soliman , Current Operational Amplifier: CMOS Realization and Active Compensation, Analog Integrated Circuits and Signal Processing, Vol. 24, No. 2, pp.141-152 , July 2000.
- [203] K.N. Salama and A.M. Soliman, Active RC Applications of the Operational Trans-resistance Amplifier, Frequenz, Vol. 54, No. 7-8, pp. 171-176, July-August 2000.

- [204] A.M. Ismail and A.M. Soliman, CMOS-CCII Realizations based on the Differential Amplifier, *Frequenz*, Vol. 54, No. 7-8, pp 182-187, July-August 2000.
- [205] A.M. Ismail and A. M. Soliman, Novel CMOS Wide-Linear Range Transconductance Amplifier, *IEEE Transaction on Circuits and Systems I*, Vol. 47, No. 8, pp. 1248-1253, August 2000.
- [206] A.M. Ismail and A. M. Soliman, Low Distortion CMOS Transconductance Amplifier, *International Journal of Electronics*, Vol. 87, No. 10, pp. 1219-1226, October 2000.
- [207] S.A. Mahmoud, H.O. Elwan and A.M. Soliman , Low Voltage Rail to Rail CMOS Current Feedback Operational Amplifier and its Applications for Analog VLSI, *Analog Integrated Circuits and Signal Processing*, Vol. 25, No. 1, pp. 47-57 , October 2000.
- [208] I.A. Awad and A. M. Soliman, A New Approach to Obtain Alternative active Building Blocks Realizations based on their Ideal Representations, *Frequenz*, Vol. 54, No. 11-12, pp. 290-299 , November-December 2000.
- [209] K.N. Salama, H.O. Elwan and A.M. Soliman, Parasitic-Capacitance Insensitive Voltage Mode MOSFET-C Filters Using Differential Current Voltage Conveyor, *Circuits, Systems and Signal Processing*, Vol. 20, No. 1, pp. 11-26, January 2001.
- [210] H.O. Elwan, A.M. Soliman and M. Ismail, A CMOS Norton amplifier-based Digitally Controlled VGA for Low –Power Wireless Applications, *IEEE Transactions on Circuits and Systems II*, vol. 48, pp. 245-254, March 2001.
- [211] A.M. Ismail and A. M. Soliman, Novel CMOS Composite Transistor for Low Voltage Low Power Applications, *Frequenz*, Vol. 55, No. 7-8, pp. 219-223, July- August 2001.
- [212] A.A. El-Adawy, A. M. Soliman and H.O. Elwan, Low Voltage Digitally Controlled CMOS Current Conveyor, *AEU-International Journal Electronics and Communication*, Vol. 56, No. 3, pp.137-144, March 2002.
- [213] K. M. Abdelfattah and A. M. Soliman, A New Approach to Realize Variable Gain Amplifiers, *Analog Integrated Circuits and signal Processing*, Vol.30, No. 3, pp. 257-263, March 2002.
- [214] I.A. Awad and A. M. Soliman, On the Voltage Mirrors and the Current Mirrors, *Analog Integrated Circuits and signal Processing*, Vol.32, No. 1, pp. 79-81, July 2002.
- [215] A.A. El-Adawy and A.M. Soliman, Low Voltage Low Power Fully Differential CMOS Current Mode Digitally Controlled Variable Gain Amplifier, *Frequenz*, Vol. 56, No. 7, pp. 170-176, July-August 2002
- [216] K. M. Abdelfattah and A. M. Soliman , Variable Gain Amplifiers Based on a New Approximation Method to Realize the Exponential function, *IEEE Transaction on circuits and systems I*, Vol. 49, No. 9, pp.1348-1354, September 2002.
- [217] K. M. Abdelfattah and A. M. Soliman, A Novel Exponential Voltage to Current Converter, *Circuits, Systems and Signal Processing*, Vol. 21, No. 5, pp. 472-482, October 2002.

- [218] M.K. Salama and A.M. Soliman , Low-Voltage Low-Power CMOS RF Four-Quadrant Multiplier, AEU-International Journal Electronics and Communication, Vol. 57, No. 1, pp. 74-78, January 2003.
- [219] A.G. Radwan, A.M. Soliman and A. El-Sedeek, MOS Realization of the Double Scroll Like Chaotic Equation, IEEE Transaction on Circuits and Systems I, Vol.50, No.2, pp 285-288, February 2003.
- [220] K. M. Abdelfattah and A. M. Soliman, Wide Band Squaring Circuit with Application to Exponential V-I Converter, Frequenz, Vol. 57, No 5,6, pp. 112-116 , May-June 2003
- [221] A.G. Radwan, A.M. Soliman and A. El-Sedeek, An Inductor-less CMOS Realization of Chua's Circuit, Chaos, Solitons and Fractals, Vol. 18, No. 1, pp. 149-158, September 2003.
- [222] A.G. Radwan, A.M. Soliman and A. El-Sedeek, MOS Realization of the Conjectured Simplest Chaotic Equations, Journal of Circuits, Systems and Signal Processing, Vol.22, No. 3, pp 277-285, March 2003.
- [223] M.A. Youssef and A.M. Soliman, A modified CMOS Balanced Output Transconductor with Extended Linearity, Analog Integrated Circuits and Signal Processing, Vol. 36, No. 3, pp. 239-244, September 2003
- [224] W.S. Hassanein, I.A. Awad and A. M. Soliman, New CMOS Compound Current Conveyor, Frequenz, Vol. 57, No. 9-10, pp. 207-211, September-October 2003.
- [225] A.G. Radwan, A.M. Soliman and A. El-Sedeek, Novel Low Voltage MOS Chaotic Oscillator based on the Nonlinearity of G_m , Journal of Circuits Systems and Computers, Vol 13, No 1, pp.101-120, February 2004.
- [226] M.A. Youssef and A.M. Soliman, A new CMOS Rail to Rail Low Distortion Balanced Output Transconductor, Analog Integrated Circuits and Signal Processing, Vol. 40, pp 75-82, July 2004.
- [227] W.S. Hassanein, I.A. Awad and A.M. Soliman, New Wide Band Low Power CMOS current Conveyors , Analog Integrated Circuits and Signal Processing, Vol. 40, pp. 91-97, July 2004.
- [228] A.G. Radwan, A.M. Soliman and A. El-Sedeek, MOS Realization of the Modified Lorenz Chaotic System, Chaos, Solitons and Fractals, Vol. 21, No. 3, pp. 553-562, July 2004.
- [229] I.A. Awad and A.M. Soliman, High Accuracy Class AB CCII-, AEU-International Journal Electronics and Communication , Volume 58, No. 4, pp. 237-243, 2004.
- [230] K.O. Mohammed and A. M Soliman, Realization of Square Root Domain Filters from Passive Filters, Frequenz, Vo. 58, No 11-12, pp. 272-276, December 2004.
- [231] K.O. Mohammed and A. M Soliman, Tunable Square Root Domain Oscillator, Analog Integrated Circuits and Signal Processing, Vol. 43, No 1, pp. 91-95, April 2005.
- [232] M.A. Youssef and A. M. Soliman, A Novel CMOS Realization of the Differential Input Balanced Output Current Operational Amplifier and Its

- Applications, Analog Integrated Circuits and Signal Processing, Vol. 44, No 1, pp. 37-53 , July 2005.
- [233] W.S. Hassanein, I.A. Awad and A. M. Soliman, Long Tail Pair Based Positive CMOS Current Conveyors: A Review, Frequenz, Vol. 59, pp. 186-194, July-August 2005.
- [234] S.A. Mahmoud, M. H. Hashiesh and A.M. Soliman, Low Voltage Digitally controlled Fully Differential Current Conveyor, IEEE Transaction on Circuit and System I, Vol. 52, No 10, pp. 2055-2064, October 2005.
- [235] W.S. Hassanein, I.A. Awad and A. M. Soliman, New High Accuracy CMOS Current Conveyors, AEU-International Journal Electronics and Communication, Vol. 59, No 7, pp. 384-391, November 2005.
- [236] M. H. Hashiesh , S.A. Mahmoud and A.M. Soliman, New Four Quadrant CMOS Current Mode and Voltage Mode Multiplier, Analog Integrated Circuits and Signal Processing, Vol. 45, No 3, pp. 295-307, December 2005
- [237] K.O. Fouad and A. M Soliman, Square Root Domain Differentiator, Proceedings IEE Circuits, Devices and Systems, Vol. 152, No.6, pp. 723-728, December 2005.
- [238] H.M. Hassan and A.M. Soliman ,Novel CMOS Realization of the Operational Floating Conveyor and Application, Journal of Circuits Systems and Computers, Vol. 14, No. 6, pp. 1113-1143, December 2005.
- [239] M. O. Shaker , S.A. Mahmoud and A. M. Soliman , New CMOS Fully Differential Transconductor and Application to a Fully Differential Gm-C Filter, ETRI Journal, Vol. 28, No 2, pp. 175-181, April 2006.
- [240] H. Mostafa and A. M. Soliman, A Modified CMOS Realization of the Operational Transresistance Amplifier (OTRA), Frequenz, Vol. 60, pp. 70-76, April 2006.
- [241] T.S. Ragheb and A. M. Soliman, New Square Root Domain Oscillators, Analog Integrated Circuits and Signal Processing, Vol. 47, No 2, pp. 165-168, May 2006.
- [242] R. F. Ahmed ,I.A. Awad and A.M. Soliman , New Op Amp- RC to Gm-C Transformation Method, Analog Integrated Circuits and Signal Processing, Vol. 49, No ,pp. 79-86, October 2006.
- [243] R. F. Ahmed ,I.A. Awad and A.M. Soliman , A Transformation Method From Voltage Mode OP-RC circuits to Current Mode Gm-C Circuits, Journal of Circuits, Systems and Signal Processing , Vol. 25, No 4, pp. 609-626, October 2006.
- [244] H.M. Hassan and A. M. Soliman, Novel Accurate Wideband CMOS Current Conveyor Frequenz, Vol.60, 60, pp. 233-235, November-December 2006.
- [245] S.A. Mahmoud and A.M. Soliman, New 1.5 V CMOS Second Generation Current Conveyor Based on Wide Range Transconductor , Analog Integrated Circuits and Signal Processing , Vol. 48, No3 , pp. 267-279, December 2006.
- [246] A.G. Radwan, A.M. Soliman and A.S. Elwakil, 1-D Digitally Controlled Multi-Scroll Chaos Generator, International J of Bifurcation and Chaos, vol.17, No 1, pp 227-242, January 2007.

- [247] A.M. Soliman, Comment on “The Effects of Non-idealities and Current Limitations on the Simulated Inductances Employing Current Conveyors, Analog Integrated Circuits and Signal Processing, vol. 49, pp. 283-284, March 2007.
- [248] S.A. Mahmoud, A.H. Madian, and A.M. Soliman, Low Voltage CMOS Current Feedback Operational Amplifier and its Application, ETRI Journal, vol. 29, No 2, pp. 212-218, April 2007.
- [249] A.M. Soliman, Voltage Mode and Current Mode Tow Thomas Bi-quadratic Filters Using ICCII, International Journal of Circuit Theory and Applications, vol. 35, No 4, pp. 463-467, July-august 2007.
- [250] C.M. Chang, A.M. Soliman and M.N.S. Swamy, Analytical Synthesis of Low Sensitivity High Order Voltage Mode DDCC and FDCCII Grounded R and C All-Pass Structures, IEEE Transaction on Circuits and Systems I, Vol. 54, No 7 pp. 1430-1443, July 2007.
- [251] E.A. Sobhy and A. M. Soliman, Novel CMOS Realizations of the Inverting Second Generation Current Conveyor and Applications, Analog Integrated Circuits and Signal Processing, vol. 52, No 2, pp. 57-64, August 2007.
- [252] A.H. Madian .S.A. Mahmoud and A.M. Soliman, Low Voltage CMOS Fully Differential Current Feedback amplifier with Controllable 3-dB Bandwidth, Analog Integrated Circuits and Signal Processing, vol.52 , No 3, pp. 139-146, September 2007.
- [253] A.M. Soliman, Generation of Grounded Capacitor ICCII Based Band-pass Filters, Journal of Circuits Systems and Computers, Vol. 16, No 4, pp. 553-566, August 2007.
- [254] A M Soliman, New Current Mode Band-Pass Filter Using Three Single Output ICCIIs, Active and Passive Electronic Components, DOI 10.1155/2007/92034, November 2007.
- [255] A.M. Soliman, The Inverting Second Generation Current Conveyors as Universal Building Blocks, AEU-International Journal Electronics and Communication, Vol.62 , No. 2 , pp. 114-121 ,February 2008.
- [256] A.M. Soliman, History and Progress of the Tow-Thomas Bi-Quadratic Filter, Part I: Generation and Op Amp realizations, Journal of Circuits Systems and Computers, Vol. 17, No 1, pp. 33-54, February 2008.
- [257] A.G. Radwan, A.M. Soliman and A.S. Elwakil, First Order Filters Generalized to the Fractional Domain, Journal of Circuits Systems and Computers, Vol. 17, No 1, pp. 55-66, February 2008.
- [258] R. A. Saad and A. M. Soliman , Generation, Modeling, and Analysis of CCII-Based Gytrators Using the Generalized Symbolic Framework for Linear Active Circuits, International Journal of Circuit Theory and Applications, Vol.36, No 3, pp. 289-309 , May 2008.
- [259] A A.G. Radwan, A.M. Soliman and A.S. Elwakil, Design Equations for Fractional Order Sinusoidal Oscillators: Four Practical circuit examples, International Journal of Circuit Theory and Applications, Vol. 3, No 4, pp. 473-492, June 2008.

- [260] A.M. Soliman, The CCII+ and the ICCII as Basic Building Blocks in Low-Pass Filter Realizations, *International Journal of Circuit Theory and Applications*, Vol.36, Vol. 3, No 4, pp 493-509, June 2008.
- [261] A.M. Soliman, Current Mode Universal Filters Using Current Conveyors: Classification and Review. *Circuits, Systems and Signal Processing*, vol.27, pp 405-427, June 2008.
- [262] A. Soltan, A.H. Madian and A. M. Soliman, CMOS Realization of the Operational Mirrored Amplifier, *Special Issue of WSEAS Trans. on Electronics*, vol.5, No. 6 , pp. 197-202 ,June 2008.
- [263] A.H. Madian, S.A. Mahmoud and A.M. Soliman, Field Programmable Analog Array based on CMOS CFOA and its Application, *Special Issue of WSEAS Trans. on Electronics*, vol.5, No. 6 , pp. 220-225 , June 2008.
- [264] A. M. Soliman, New Grounded Capacitor Current Mode Band-pass Low-pass Filters Using Two Balanced Output ICCII, *Journal of Active and Passive Electronic Devices* Vol. 3, No. 2, pp. 175-184, Online July 29,2008.
- [265] A.G Radwan, A. S. Elwakil and A. M. Soliman, Fractional-Order Sinusoidal Oscillators: Design Procedure and Practical Examples, *IEEE Trans. Circuits and Systems I*, Vol.55, No. 7 pp. 2051-2063, August 2008.
- [266] A.M. Soliman, History and Progress of the Kerwin Huelsman Newcomb Filter: Generation and Op Amp Realizations, *Journal of Circuits Systems and Computers*, Vol. 17, No 4, pp. 637-658, August 2008.
- [267] A. M. Soliman, Kerwin Huelsman Newcomb Filter Using ICCII, *Journal of Active and Passive Electronic Devices* Vol. 3, No. 3,4, pp. 273-279, September 2008.
- [268] A.M. Soliman, Current Mode Filters Using Two Output Inverting CCII, *International Journal of Circuit Theory and Applications*, Vol.36, No 7, pp. 875-881, October 2008.
- [269] R.A. Saad and A. M. Soliman, Use of Mirror Elements in Active Device Synthesis by Admittance Matrix Expansion, *IEEE Trans. Circuits and Systems I*, Vol. 55, No 9, pp. 2726-2735, October 2008.
- [270] A.M. Soliman, History and Progress of the Tow-Thomas Bi-Quadratic Filter, Part II: OTRA, CCII and DVCC Realizations, *Journal of Circuits Systems and Computers*, Vol. 17, No 5, pp. 797-826, October 2008.
- [271] A. Soltan and A. M. Soliman, CMOS Realizations of Operational Mirrored Amplifier, *Journal of Electrical Engineering*, Vol. 8 , No.4, pp. 39-46 , December 2008.
- [272] A.M. Soliman and A.H. Madian, MOS-C Tow Thomas Filter Using Voltage Op Amp, CFOA and OTRA, *Journal of Circuits Systems and Computers*, Vol. 18, No. 1, pp. 151-179, February 2009.
- [273] A.G Radwan, A. S. Elwakil and A. M. Soliman, On the Generalization of Second Order Filters to the Fractional Order Domain, *Journal of Circuits Systems and Computers* ,Vol. 18, No. 2, pp. 361-386, April 2009.
- [274] A. M. Soliman, New Current Mode Low-Pass Filter Using Identical Single Output Current Conveyors, *Journal of Active and Passive Electronic Devices* Vol. 4, No. 1, 2 pp. 21 -33, April 2009.

- [275] A. M. Soliman, Current Mode Universal Filters with Grounded Passive Elements and Using Single Output Current Conveyors, *Journal of Active and Passive Electronic Devices* Vol. 4, No. 1,2, pp.55 -62, April 2009.
- [276] A. M. Soliman, Bode-Type Amplitude Equalizers Using Current Conveyors, *Journal of Circuits Systems and Computers*, Vol. 18, No 3, pp. 433-442, May 2009.
- [277] A.M. Soliman, Adjoint Network Theorem and Floating Elements in NAM, *Journal of Circuits Systems and Computers*, Vol. 18, No 3, pp. 597-616, May 2009.
- [278] A.G. Radwan , A.M. Soliman , A.S. Elwakil , A. Sedeek, On the stability of linear systems with fractional-order elements, *Chaos, Solitons and Fractals* Vol. 40, pp. 2317–2328, June 2009
- [279] A.M. Soliman, Active Circulator Circuits Using OA, CCII, CFOA and DVCC, *Journal of Circuits Systems and Computers*, Vol. 18, No 4, pp 629-645, June 2009.
- [280] A.M. Soliman and A.H. Madian, MOS-C KHN filter using Voltage Op Amp, CFOA, OTRA and DCVC, *Journal of Circuits Systems and Computers*, Vol. 18, No 4, pp. 733-769 June 2009.
- [281] M.K.Salama and A.M. Soliman, Low-voltage Low-Power CMOS RF Low Noise Amplifier, *AEU-International Journal Electronics and Communication* Vol. 63, No 6, pp. 478-482, June 2009.
- [282] A.M. Soliman, Generation of Oscillators Based On Grounded Capacitor Current Conveyors with Minimum Passive Components, *Journal of Circuits Systems and Computers*, Vol. 18, No 5, pp. 857-873 August 2009.
- [283] A.M. Soliman, Generation and Classification of Kerwin-Huelsman-Newcomb Circuits Using the DVCC, *International Journal of Circuit Theory and Applications*, Vol. 37, pp. 835-855, September 2009.
- [284] A. Soltan A and A.M. Soliman, A CMOS Differential Difference Operational Mirrored Amplifier, *AEU-International Journal Electronics and Communication*, Vol. 63, No. 9, pp. 793-800, September 2009.
- [285] A.M. Soliman and R.A. Saad, On the Introduction of New Floating current Conveyors, *Journal of Circuits Systems and Computers*, Vol. 18, No 6, pp. 1005-1016 , October 2009.
- [286] A.M. Soliman, On the DVCC and the BOCCII as Adjoint Elements, *Journal of Circuits Systems and Computers*, Vol. 18, No 6, pp. 1017-1032 , October 2009.
- [287] A. M. Soliman, Applications of Voltage and Current Unity Gain Cells in Nodal Admittance Matrix Expansion, *IEEE Circuits and Systems Magazine*, Vol. 9 , No. 4 pp. 29-42 (Fourth Quarter) December 2009.
- [288] Kafrawy AK, Soliman AM. A Modified CMOS Differential Operational Trans-resistance Amplifier (OTRA), *AEU-International Journal Electronics and Communication*, Vol .63, No. 12, pp. 1067-1071, December 2009.
- [289] E. Sobhy and A.M. Soliman, Novel CMOS Realization of Balanced Output Third Generation Inverting Current Conveyor with Applications, *Journal of Circuits Systems and Signal Processing*, Vol.28, No. 6, pp. 1037-1051, December 2009.

- [290] M.K.Salama and A.M. Soliman, 0.7V, 5.745GHz CMOS RF Low Noise Amplifier for IEEE 802.11a wireless LAN , AEU-International Journal Electronics and Communication, Vol. 64, No 1, pp. 29-35, January 2010.
- [291] R. A. Saad and A. M. Soliman , A new Approach for Using the Pathological Mirror Elements In the Ideal Representation of Active Devices, International Journal of Circuit Theory and Applications, Vol. 38, No 2, pp. 148-178, March 2010.
- [292] A.M. Soliman, Two Integrator Loop Filters: Generation Using NAM Expansion and Review, Hindawi Publishing Corporation Journal of Electrical and Computer Engineering Volume 2010, Article ID 108687,8 pages doi:10.1155/2010/108687. March 2010
- [293] A.M. Soliman and R.A. Saad, Generation of Second Generation Current Conveyor (CCII) Family From Inverting Second Generation Current Conveyor (ICCI) Family, International Journal of Electronics, Vol. 97, No 4, pp. 405-414, April 2010.
- [294] A.M. Soliman, On the Realization of Floating Inductors, Nature and Science, Vol. 8, No. 5, pp. 167-180, May 2010.
- [295] A.M. Soliman, History and Progress of the Tow Thomas Bi-Quadratic Filter Part III: Generation Using NAM Expansion, Journal of Circuits Systems and Computers, Vol. 19, No. 3, pp. 529-548, May 2010.
- [296] A.M. Soliman, Synthesis of Controlled Sources by Admittance Matrix Expansion, Journal of Circuits Systems and Computers, Vol. 19, No. 3, pp. 597-634, May 2010.
- [297] E. Sobhy and A.M. Soliman, Realizations of fully differential voltage second generation current conveyor with an application, International Journal of Circuit Theory and Applications, Vol.38, No. 5, pp. 441-452, June 2010.
- [298] A.M. Soliman, On the Four Terminal Floating Nullor (FTFN) and the Operational Mirror Amplifier (OMA), Journal of Active and Passive Electronic Devices, Vol. 5, No 3-4, pp. 209-219, July 2010.
- [299] H Mostafa, H. Mohamed and A.M. Soliman, Novel FCS Based Layout-Friendly Wide Band Low Power CCII- Realizations, Journal of Circuits Systems and Computers, Vol. 19, No. 5, pp. 997-1014, August 2010.
- [300] A.M. Soliman , Generation of Three Oscillator Families Using CCII and ICCII, AEU-International Journal Electronics and Communication, Vol. 64, No 9, pp. 880-887, September 2010.
- [301] A.M. Soliman AM. Generation of CCII and ICCII Based Wien Oscillators Using Nodal Admittance Matrix Expansion, AEU-International Journal Electronics and Communication, Vol. 64, No 10, pp. 971-977, October 2010
- [302] A.M. Soliman, On the Transformation of a Floating Resistor Oscillator to Grounded Passive Element Oscillators, Majlesi Electrical Engineering Journal, Vol. 4, No. 3, pp. 1-6, September 2010.
- [303] A.M. Soliman, Generation of Current Conveyor Based Oscillators Using Nodal Admittance Matrix Expansion, Analog Integrated Circuits and Signal Processing, Vol. 65, No. 1, pp. 43-59, October 2010.

- [304] A.M. Soliman, Transformation of Oscillators using Op Amps, Unity Gain Cells and CFOA, Analog Integrated Circuits and Signal Processing, Vol. 65, No. 1, pp. 105-114, October 2010.
- [305] A. M Soliman, On the Generation of CCII and ICCII Oscillators from Three Op Amps Oscillator, Microelectronics Journal, Vol. 41, No. 10 , pp. 680-687, October 2010.
- [306] A.M. Soliman and R.A. Saad, Two New Families of Floating FDNR Circuits, Hindawi Publishing Corporation, Journal of Electrical and Computer Engineering Volume 2010 (2010), Article ID 563761, 7 pages
- [307] A.M. Soliman and R.A. Saad, The Voltage Mirror–Current Mirror Pair as a Universal Element , International Journal of Circuit Theory and Applications, Vol. 38, No. 8, pp. 787-795, Oct 2010
- [308] R. A. Saad and A. M. Soliman, On the Systematic Synthesis of CCII Based Floating Simulators, International Journal of Circuit Theory and Applications, Vol. 38, No. 9, pp. 935-967, November 2010.
- [309] A.M. Soliman, New CCII and ICCII Based Realizations of L-C and L-R Mutators, Journal of Circuits Systems and Signal Processing, Vol. 29, No.6, pp. 1181-1191, December 2010.
- [310] A.M. Soliman, New Bode Type Variable Amplitude Equalizers Using Inverting Current Conveyor Journal of Active and Passive Electronic Devices, Vol.6, No 1, pp. 61-71, January 2011.
- [311] A.M. Soliman, Modified Mixed-Mode Universal Filters Using DVCC, Journal of Active and Passive Electronic Devices, Vol.6, No 1, pp. 129-139, January 2011.
- [312] A. M Soliman, Current Conveyor based or Unity Gain Cells Based Two Integrator Loop Oscillators, Microelectronics Journal, Vol. 42, No. 2, pp. 239-246, February 2011.
- [313] A. M Soliman, Generalized, Floating and Self Adjoint Differential Voltage Current Conveyor, Trends in Applied Sciences Research, Vol. 6, No. 7, pp. 700-709, February2011.
- [314] A. M Soliman, Nodal Admittance Matrix and Pathological Realizations of BOOA, DDA, DDOFA and DDOMA, Singapore Journal of Scientific Research, Vol. 1, No. 2, pp. 149-163, February 2011.
- [315] A.M. Soliman, Generation of Oscillators from Current Mode Band-pass Filters using Single Output ICCII, Journal of Active and Passive Electronic Devices, Vol.6, No 3, pp. 251-264, March 2011.
- [316] A.M. Soliman, Current Mode Oscillators Using Inverting CCII, Journal of Active and Passive Electronic Devices, Vol.6, No 3, pp. 305-320 , March 2011.
- [317] A.M. Soliman, Transformation of a Floating Capacitor Oscillator to a Family of Grounded Capacitor Oscillators, International Journal of Electronics, Vol. 98, No 3, pp. 289-300, March 2011.
- [318] A.M. Soliman, On the Transformation of Grounded Inductors to Floating Inductors using OFA and FCCII, Journal of Circuits Systems and Computers, Vol. 20 , No. 2 , pp 243-262, April 2011.

- [319] A.M. Soliman , Pathological Representation of the Two Output CCII and ICCII Family and Application , International Journal of Circuit Theory and Applications, Vol.39, No. 6, pp. 589-606, June 2011
- [320] A.M. Soliman, Generation of CFOA, CCII and DVCC Based Oscillators from Passive RLC Filter, Journal of Circuits Systems and Computers, Vol. 20 , No. 4 , pp. 621-639, June 2011.
- [321] A. M. Soliman, Synthesis of Oscillators Using Limit Variables and NAM Expansion, Active and Passive Electronic components, Hindawi, Vol. 2011, Article ID 131546, 13 pages, June 2011.
- [322] R. F. Ahmed, A. G. Radwan, A. H. Madian and A. M. Soliman, Built-In Current Sensor for Testing Analog Blocks, Canadian Journal on Electrical and Electronics Engineering Vol. 2, No. 6, pp. 216-228, June 2011.
- [323] R. F. Ahmed, A. G. Radwan, A. H. Madian and A. M. Soliman, A Fast Built-In Sensor for CMOS Digital Applications, Canadian Journal on Electrical and Electronics Engineering Vol. 2, No. 6, pp. 229-242, June 2011.
- [324] A.M. Soliman , Generation of Kerwin-Huelsman-Newcomb Biquad Filter Circuits Using Nodal Admittance Matrix Expansion, International Journal of Circuit Theory and Applications, Vol. 39, No. 7, pp. 697-717, July 2011.
- [325] A.M. Soliman, Generation and Classification of CCII and ICCII Based Negative Impedance Converter Circuits Using NAM Expansion, International Journal of Circuit Theory and Applications, Vol.39, No. 8, pp. 835-847, August 2011.
- [326] 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, AEU-International Journal Electronics and Communication, Vol. 65 , No. 9 , pp. 753-762 , September 2011.
- [327] A.M. Soliman, Generation of Generalized Impedance Converter Circuits Using NAM Expansion, Journal of Circuits Systems and Signal Processing, Vol. 20, No. 5, pp. 1091-1114, October 2011.
- [328] A.M. Soliman, Generation of the Minimum Component Oscillators from Sallen-Key Filters, Journal of Circuits Systems and Computers, Vol. 20 , No. 6 , pp. 1165-1183, October 2011.
- [329] A.M. Soliman, Pathological Realizations of the DCVC (CDBA) and Applications to Oscillators and Filters, AEU-International Journal Electronics and Communication, Vol. 65, No. 12, pp. 985-992, December 2011.
- [330] A.M. Soliman, Generation of Current Mode Filters Using NAM Expansion, International Journal of Circuit Theory and Applications, Vol.39, No. 11, pp. 1087-1103, November 2011.
- [331] A.M. Soliman, Bode-Type Amplitude Equalizers Using Current Feedback Operational Amplifier, Journal of Active and Passive Electronic Devices, Vol.7, No 1, pp. 159-171, January 2012.

- [332] A.M. Soliman, Classification and Pathological Realizations of Transconductance Amplifiers, *Journal of Circuits Systems and Computers*, Vol. 21, No.1, (17 pages) February 2012.
- [333] A.M. Soliman, Three Port Gyrator Circuits Using Transconductance Amplifiers or Generalized Conveyors, *AEU-International Journal Electronics and Communication*, Vol. 66, No. 4, pp. 286-293, April 2012.
- [334] A.M. Soliman, New Grounded Capacitor Single Resistance Controlled Sinusoidal Oscillator Using Two CFOAs, *Journal of Active and Passive Electronic Devices*, Vol.7, No 3, pp. 209-213, April 2012.
- [335] A.M. Soliman, New Active Circulator Circuits Using Balanced Output CCII and Balanced Output ICCII, *Journal of Active and Passive Electronic Devices*, Vol.7, No 3, pp. 233-249, April 2012.
- [336] A.M. Soliman, Classification and Pathological Realizations of BOTA and FDDTA Using Grounded Resistors, *Journal of Circuits Systems and Computers*, Vol. 21, No.3 (23 Pages) May 2012.
- [337] A.M. Soliman, A Note on the Generation of Generalized Impedance Converter Circuits Using NAM Expansion, *Journal of Circuits Systems and Signal Processing*, Vol.31, No.3, pp.1147-1157, June 2012.
- [338] S.H. Tu, Y.S Hwang, , J.J Chen, A. M. Soliman, C.M. Chang, OTA-C Arbitrary-Phase-Shift Oscillators, *IEEE Transaction On Instrumentation AND Measurement*, Vol.. 61, No. 8, pp. 2305-2319, August 2012.
- [339] A. Soltan, A. Radwan, A. M Soliman, Fractional Order Filter with Two Fractional Elements of Dependent Orders, *Microelectronics Journal*, Vol. 43, No. 11, pp. 818-827, November 2012.
- [340] A. M. Soliman, On Oscillator Circuits Using Two Output CCII, DVCC and FDCCII, *J. of Active and Passive Electronic Devices*, Vol. 7, pp. 325–343, 2012.
- [341] A. M. Soliman, Generation of Two Output CCII and Two Output ICCII Based Current Mode Filters and Oscillators, *J. of Active and Passive Electronic Devices*, Vol. 7, pp. 345–356, 2012.
- [342] A.M. Soliman, Two Integrator Loop Quadrature Oscillators: A Review, *Journal of Advanced Research JAR*, Vol. 4, No. 1, pp. 1-11, January 2013.
- [343] A Soltan, A G. Radwan, and A M. Soliman. Measurement Fractional Order Sallen–Key Filters. *Int. J. Electr. Electron. Sci. Eng* 7, No. 12 2-6, 2013.
- [344] A. Soltan , A. G. Radwan, and A. M. Soliman, Fractional Order Butterworth Filter: Active and Passive Realizations, *IEEE Journal on Emerging and Selected Topics in Circuits and Systems*, Vol.3 No. 3, September 2013.
- [345] A. M. Soliman, A Note on the Transformation of Grounded Inductors to Floating Inductors using OFA and FCCII, *Journal of Circuits Systems and Computers*, Vol. 22, No. 2, 2013.
- [346] A.M. Soliman, Generation of Third Order Quadrature Oscillator Circuits Using NAM Expansion, *Journal of Circuits Systems and Computers*, Vol. 22, No.7, August 2013.
- [347] N. A. Khalil, R. F. Ahmed, R. A. Abul Seoud, A. M. Soliman, An Intelligent Technique for Generating Equivalent TT Circuits Using Genetic Algorithm,

- International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 3, Issue 8, pp. 11070 – 11078, August 2014.
- [348] A. Soltan, A. G. Radwan, A. M. Soliman, CCII based fractional filters of different orders, Journal of Advanced Research 5, 157–164, 2014.
- [349] A.M. Soliman, C.M. Chang, Generation of Four Phase Oscillators Using Amps or Current Conveyors, Journal of Active and Passive Electronic Devices, Vol. 10, No. 3,4, pp. 207-221, August 2015.
- [350] N. A. Khalil, R. F. Ahmed, R. A. Abul Seoud, A. M. Soliman, An Intelligent Technique for Generating Equivalent Gyrator Circuits Using Genetic Algorithm, Microelectronics Journal Vol.46 ,pp. 1060–1068, 2015.
- [351] L. A. Said, A. G. Radwan, A. H. Madian, A. M. Soliman, Fractional Order Oscillators based on Operational Trans-resistance Amplifiers, AEU-International Journal Electronics and Communication Vol.69, pp. 988-1003, 2015.
- [352] C.M. Chang, M.N.S. Swamy ,A.M. Soliman, Analytical Synthesis of Voltage-Mode Even/Odd-nth-Order Differential Difference Current Conveyor and Fully Differential Current Conveyor II-Grounded Resistor and Capacitor Universal Filter Structures,, International Journal of Circuit Theory and Applications,.Vol.43, pp.1263–1310. 2015.
- [353] M. M. Goda, M. K. Salama and A. M. Soliman Noise Analysis for Low-voltage Low-Power CMOSRF Low Noise Amplifier , International Journal of Scientific & Engineering Research, Volume 6, Issue 3, 2015.
- [354] A. Soltan, A. G. Radwan, A. M. Soliman, Fractional Order Sallen Key and KHN Filters: Stability and Poles Allocation Journal of Circuits, Systems and Signal Processing, Vol. 34 (5), 1461-1480, 2015.
- [355] A. Soltan, A. G. Radwan, A. M. Soliman, Fractional-Order Mutual Inductance: Analysis and Design, International Journal of Circuit Theory and Applications, Vol. 44 (1), pp.85-97, 2016.
- [356] L.A. Said, S.M. Ismail, A.G. Radwan, A.H. Madian, M.F.A. El-Yazeed, A.M. Soliman, On The Optimization of Fractional Order Low-Pass Filters, Journal of Circuits, Systems and Signal Processing, Vol. 35, No. 6, 2017-2039, 2016.
- [357] M.E. Fouda, A. Soltan, A.G. Radwan, A.M. Soliman, Fractional-Order Multi-Phase Oscillators Design and Analysis Suitable for Higher-Order PSK Applications, Analog Integrated Circuits and Signal Processing Vol. 87, No.2, pp.301-312, 2016.
- [358] L. A. Said, A. G. Radwan, A. H. Madian, A. M. Soliman, Fractional Order Oscillator Design Based on Two-Port Network, Journal of Circuits Systems Signal Process, Vol. 35, No. 9, pp. 3086-3112, 2016.
- [359] L. A. Said, A. G. Radwan, A. H. Madian, A. M. Soliman, Two-Port Two Impedances Fractional Order Oscillators, Microelectronics Journal, 2016.
- [360] N. A. Khalil, R. F. Ahmed, R. A. Abul Seoud, A. M. Soliman, Realization of KHN and TT Filters Using DDCCTA Block, World Engineering & Applied Sciences Journal Vol.7 (No.2, pp 114-123, 2016.
- [361] A. El-Bayoumi, H. Mostafa, A. M. Soliman, A Novel MIM-Capacitor-Based 1-GS/s 14-bit Variation-Tolerant Fully-Differential Voltage-to-Time Converter

- (VTC) Circuit, Journal of Circuits Systems and Computers, Vol.26, No.5 [35 pages], May 2017.
- [362] N. A. Khalil, R. F. Ahmed, R. A. Abul Seoud, A. M. Soliman, New Op-Amp Circuits Realizations Using Genetic Algorithm, Journal of Circuits Systems and computers, Vol. 26, No.9 [24 pages], , September 2017.
- [363] L. A. Said, A. G. Radwan, A. H. Madian, A. M. Soliman, Three Fractional-Order-Capacitors-Based Oscillators with Controllable Phase and Frequency, Journal of Circuits Systems and Computers, Vol.26, No.10 [22 Pages], October 2017.
- [364] S.M. Ismail, L.A. Said, A.A. Rezk, A.G.Radwan, A.H. Madian, M.F. Abu-Elyazeed, A.M. Soliman, Generalized Fractional Logistic Map Encryption System Based On FPGA, AEU-International Journal Electronics and Communication, Vol. 80 , pp. 114-126, October 2017.
- [365] A. Soltan, A. M. Soliman, A. G. Radwan, , Fractional-Order Impedance Transformation Based On Three Port Mutators, AEU-International Journal Electronics and Communication, Vol. 81, pp. 12-22, November 2017.
- [366] O. Abdelkader, M. Mohie El-Din, H. Mostafa, H. Abdelhamid, H. Fahmy, Y. Ismail, A. M. Soliman, Technology Scaling Roadmap for FinFET-Based FPGA Clusters Under Process Variations, Journal of Circuits Systems and Computers, Vol.27, No.4, April 2018
- [367] M. A. ElGabry, A. H. Hassan, H. Mostafa, A.M. Soliman, A New Design Methodology for Voltage to Frequency Converters (VTFC) Circuits Suitable for Time Based Analog to Digital Converters (T-ADCs), Analog Integrated Circuits and Signal Processing, Vol. 94, No. 2 pp 277-287, February 2018.
- [368] A. H. Hassan , A. Fouad , H. Mostafa, K. N. Salama , A. M. Soliman, A New Design Methodology for Time-Based Capacitance-to-Digital Converters (T-CDCs), AEU-International Journal Electronics and Communication, Vol. 96, pp. 238-245, 2018.
- [369] A.H. Hassan, H. Mostafa, Y. Ismail, A.M. Soliman, A Low-Power High-Efficiency Inductive Link Power Supply for Neural Recording and Stimulation System-On-Chip. Journal of Low Power Electronics Vol.14, No.1, pp. 129-139, 2018.
- [370] A. A. Rezk a, A. H. Madian , A. G. Radwan , A. M. Soliman, Reconfigurable Chaotic Pseudo Random Number Generator Based on FPGA, AEU-International Journal Electronics and Communication, Vol. 98, pp. 174-180, January 2019
- [371] C.M.Chang , S. H.Tu,,M. N. S. Swamy and A. M. Soliman and Design of Odd Nth-order Elliptic High-Pass Filters Employing OTRAs, IET Circuits Devices and Systems, 2019.
- [372] C.M.Chang ,S.H. Tu, M. N. S. Swamy and A.M. Soliman, Analytical Synthesis of Elliptic Voltage-Mode Even/Odd-Nth-Order Filter Structures using DDCCs, FDCCIs, and Grounded Cs and Rs, IET Circuits Devices and Systems, 2019.
- [373] N.A.Khalil, L.A., Said, A.G., Radwan and A.M.Soliman, General Fractional Order Mem-Elements Mutators, Microelectronics Journal, 2019.

- [374] A.Salaheldin, H.Mostafa and A.M. Soliman, Design exploration for network on chipbased FPGAs: 2D and 3D tiles to router interface, *Microelectronics Journal*, 2019.
- [375] N.A.Khalil, L.A., Said, A.G., Radwan and A.M.Soliman, Generalized two-port network based fractional order filters, *AEU-International Journal Electronics and Communication*, Vol. 97, 2019.
- [376] L.A., Said, O. Elwy. A.H. Madian,A.G., Radwan and A.M.Soliman, Stability Analysis of Fractional-Order Colpitts Oscillators, *Analog Integrated Circuits and Signal Processing* , 2019.
- [377] A. A. Rezk , A.H. Madian , A. G. Radwan and A. M. Soliman , Multiplierless chaotic Pseudo random number generators, *AEU-International Journal Electronics and Communication*, Vol. 113, 2020.
- [378] NA Khalil, LA Said, AG Radwan, AM Soliman, Emulation circuits of fractional-order memelements with multiple pinched points and their applications, *Chaos, Solitons & Fractals* 138, 109882.
- [379] W.Sayed, M.Tolba, A.G Radwan, S. K. Abd-El-Hafiz, A.M.Soliman, A Switched Chaotic Encryption Scheme Using Multi-Mode Generalized Modified Transition Map, *Multimedia Tools and Applications*, <https://doi.org/10.1007/s11042-020-09756-y>, 2020
- [380] NA Khalil, ME Fouda, LA Said, AG Radwan, AM Soliman, A general emulator for fractional-order memristive elements with multiple pinched points and application, *AEU-International Journal of Electronics and Communications* 124, 153338.

D. CONFERENCE PAPERS

- [1] A.M. Soliman, Richards Theorem For Positive Real Matrices of Several Variables, Proceedings 7th Annual Allerton Conference on Circuits and System Theory, pp. 773-779, October 1969.
- [2] A.M. Soliman, Realizability Conditions and Synthesis of Non-Commensurate URC, Proceedings 3rd Annual Asilomar Conference on Circuits and Systems, (3), pp. 319-321, December 1969.
- [3] A.M. Soliman and N.K. Bose, Synthesis of a Class of Multivariable Positive Real Functions Using Bott- Duffin Technique, Proceedings 13th Midwest Symposium on Circuit Theory, pp. XVI, 4.1-4.11, May 1970.
- [4] A.M. Soliman, New L-R Mutators and Their Models, Proceedings 3rd Annual Pittsburgh Conference on Modeling and Simulation, pp. 649-656, April 1972.
- [5] A.M. Soliman, Nullator-Norator Models of Chua's Second Type L-C Mutator, Proceedings 15th Midwest Symposium on Circuit Theory, pp. III 4.1-III 4.10, May 1972.
- [6] A.M. Soliman, Synthesis of Non-minimum Phase RC Transfer Functions Using the Current Conveyor, Proceedings 6th Hawaii International Conference on System Sciences, pp. 506-508, January 1973.
- [7] A.M. Soliman, Active Realization of Non-minimum Phase Transfer Functions Using the Current Conveyor, Proceedings 9th Annual Asilomar Conference on Circuits, Systems, and Computers, pp. 510-513, November 1975.
- [8] A.M. Soliman, A Novel Canonic Active RC Band-pass Network with Reduced Sensitivity to Amplifier Gain Bandwidth Product, Proceedings IEEE International Symposium on Circuits and Systems, pp. 493-496, Munich, Germany, April 1976.
- [9] A.M. Soliman, A Simple Active Canonic Realization of the Ripple-Pass Function, Proceedings 19th Midwest Symposium on Circuits and Systems, pp. 212-216, August 1976.
- [10] A.M. Soliman and M. Fawzy, A Band-pass and High Pass Active R Filter, Proceedings 20th Midwest Symposium on Circuits and Systems, pp. 321-323, August 1977.
- [11] A.M. Soliman and M. Fawzy, Active R Simulation of an Inductor and a Series Resonator, Proceedings 20th Midwest Symposium on Circuits and Systems, pp. 348-352, August 1977.
- [12] A.M. Soliman, Novel Integrators Using the DVCCS/DVCVS with Applications to Filters, Proceedings 21 Midwest Symposium on Circuits and Systems, pp. 563-567, August 1978.
- [13] M. Ismail and A.M. Soliman, A Novel Active Compensation Method of Op-Amp VCVS and Weighted Summer Building Blocks, Proceedings IEEE International Symposium on Circuits and Systems, Tokyo, Japan, pp. 922-925, July 1979.
- [14] A.M. Soliman and M. Ismail, A Universal Variable Phase 3-Port VCVS and its Applications in two Integrator Loop Filters, Proceedings IEEE International Symposium on Circuits and Systems, Houston, Texas, pp. 83-86, April 1980.

- [15] A.M. Soliman, Magnitude Compensation of Inverting Amplifiers, Proceedings 12th Southeastern Symposium on System Theory, Virginia Beach, pp. 69-73 May 1980.
- [16] A.M. Soliman, A new phase compensated Three port VCVS with Controlled Gain Difference, European Conference on Circuit Theory and Design, The Netherlands, pp. 1043-1046, August 1981.
- [17] A.M. Soliman, Novel Active Compensated Weighted Summer, International Conference on Modeling and Simulation, Paris-Sud, France, July 1982.
- [18] M.F. Wagdy and A.M. Soliman, Some Partially Active R Biquad Circuits, Proceedings 25th Midwest Symposium on Circuits and Systems, Houghton, Michigan, pp. 317-320, August 1982.
- [19] A.M. Soliman and M. Ismail, A New High Frequency Active Compensated Weighted Summer, Proceedings 25th Midwest Symposium on Circuits and Systems, Houghton, Michigan, pp. 469-471, August 1982.
- [20] A.M. Soliman, Active compensation of the Three Port VCVS Networks, Jordan-International Electrical and Electronic Engineering Conference, Amman-Jordan, pp. 327-329, April 1983.
- [21] A.M. Soliman, Design of High Frequency Amplifiers, Proceedings IEEE International Symposium on Circuits and Systems, Newport Beach, CA, May 1983.
- [22] M. Ismail and A.M. Soliman, A New Active Compensated Differential Integrator Without Matched Operational Amplifiers, Proceedings 26th Midwest Symposium on Circuits and Systems, Mexico, pp. 568-570, August 1983.
- [23] H.O. Elwan and A.M. Soliman, LV Rail to Rail CMOS CCII and its Application to Filter Design, Proceedings First Analog VLSI Workshop, Columbus, Ohio, pp. 59-64, May 1997.
- [24] A.A. El-Khatib, A.A. El-Gammal, A.M. El-Tawil, K.N. Salama, A.M. Soliman and H.O. Elwan, A CMOS Programmable Silicon Retina Implementing Vision Algorithms, Proceedings 40th Midwest Symposium on Circuits and Systems, Sacramento, pp.1178-1180, August 1997.
- [25] A. Adawi, A. Gomaa and A.M. Soliman, Analog VLSI Building Blocks Suitable for Hearing Aid Applications, Proceedings 40th Midwest Symposium on Circuits and Systems, Sacramento, pp.1175-1177, August 1997.
- [26] N.A. Ghemary, H.A. Elsemary and A.M. Soliman, An FPGA Implementation of Fuzzy Logic, Proceedings Fourth International Conference on Electronics, Circuits and Systems, Cairo, Egypt, pp. 647-652, December 1997.
- [27] A.M. Soliman and M. H. Eltawil, Universal Active Filter Using Current Feedback Operational Amplifier, Int. Conference on Communication, Computer and Power, Muscat, Oman, December 1998.
- [28] S.A.Mahmoud and A.M. Soliman, The Current Feedback Differential Difference Amplifier:New CMOS Realization with Rail-to-Rail Class AB Output Stage, Proceedings International Symposium on Circuits and Systems, Orlando, Fl., USA, Vol. II, pp. 120-123, May 1999.
- [29] K.N. Salama and A. M. Soliman, Novel MOS-C Quadrature Oscillator Using the Differential Current Voltage Conveyor, Proceedings 42nd Midwest

- Symposium on Circuits and Systems, New Mexico State University, Las Cruces, N.M., vol. 1, pp. 279-282 August, 1999.
- [30] A.M. Ismail and A. M. Soliman, A Novel CMOS Four Quadrant Multiplier based on Linearization of the Long Tail Differential Pair, Proceedings International Symposium on Circuits and Systems, Geneva, Switzerland, pp. V-485-488, May 2000.
- [31] K.N. Salama, S. Ozoguz and A. M. Soliman, A New Universal Biquad Using CDBAs, IEEE Midwest Symposium on Circuits and Systems, Fairborn, Ohio, Vol. 2 , pp. 850-853,14-17 August 2001.
- [32] F. El-Seddeek, M. H Ismail, M. M. Abodina, M.A. Youssef and A. M. Soliman , CMOS Mixed signal Fingerprint sensing and Parallel Processing Architecture, Eleventh MELECON ,Cairo, Egypt, pp. 295-299, May 2002.
- [33] I.A. Awad, S.A. Mahmoud and A. M. Soliman, Novel Compensated CMOS Buffer, 10th IEEE International Conference on Electronics, Circuits and Systems, Sharjah, United Arab Emirates pp. 284-287, December 2000.
- [34] M.H. Hashiesh, S.A. Mahmoud and A.M. Soliman, New Digitally Controlled CMOS Balanced Output Transconductor Based on Novel Current Division Network and its Applications, 47 th IEEE International Midwest Symposium on Circuits and Systems, Hiroshima, Japan, pp. III-323-326, July 2004.
- [35] A.K. Khattab , A.T. Talaat, M. Abulsalam, M. Elsayed and A.M. Soliman, A Programmable Baseband Chain for A GSM/DECT Fully Differential Integrated CMOS Receiver, International Conference on Electrical , Electronic and Computer Engineering ICEEC, Ain Shams University , Egypt, pp. 423-426, September 2004.
- [36] M.H. Hashiesh, S.A. Mahmoud and A.M. Soliman, New Current Mode and Voltage Mode Analog Multipliers, International Conference on Electrical, Electronic and Computer Engineering ICEEC, Ain Shams University, Egypt, pp. 435-438, September 2004.
- [37] M.H. Hashiesh, S.A. Mahmoud and A.M. Soliman, New Digitally Controlled CMOS Balanced Output Transconductor Based on Novel Current Division Network and its Applications, International Conference on Electrical, Electronic and Computer Engineering ICEEC, Ain Shams University, Egypt, pp. 520-523, September 2004.
- [38] A.H. Madian, S.A. Mahmoud and A.M. Soliman, A New Low Voltage CMOS Rail to Rail Balanced Output Current Conveyor, IEEE International Midwest Symposium on Circuits and Systems, pp. 1179-1182, 2005.
- [39] Mahmoud, S.A., Hashiesh, M.A., Soliman, A.M. Digitally controlled fully differential current conveyor: CMOS realization and applications, Proceedings - IEEE International Symposium on Circuits and Systems, pp. 1622-1625, 2005.
- [40] M.O. Shaker, S.A. Mahmoud and A.M. Soliman, New CMOS Fully Differential Transconductor and its Applications, Proceedings IEEE International Symposium on Circuits and Systems, ISCAS, Greece , pp. 77-80, May 2006.
- [41] M.O. Shaker , S.A. Mahmoud and A.M. Soliman, A CMOS Fifth Order Low Pass Current Mode Filter Using a Linear Transconductor, Proceedings IEEE

- International Symposium on Circuits and Systems, ISCAS , Greece , pp. 1043-1046, May 2006.
- [42] A.H. Madian, S.A. Mahmoud and A.M. Soliman , New 1.5 V Current Feedback operational Amplifier, International Conference on Electronics, Circuits and Systems, ICECS ,Nice, France , pp. 600-603, December 2006.
- [43] A.H. Madian, S.A. Mahmoud and A.M. Soliman, Low Voltage CMOS Fully Differential Current Feedback Amplifier with Controllable 3-dB Bandwidth, Proceedings IEEE International Conference on Signal Processing and Communication, Dubai-United Arab Emirates, pp. 93-96, November 2007.
- [44] M.O. Shaker , S.A. Mahmoud and A.M. Soliman, High Order Gm-C Filters with Current Transfer Function Based on Multiple Loop Feedback, IEEE International Conference on Signal Processing and Communication, Dubai-United Arab Emirates, pp. 85-88, November 2007.
- [45] A.H. Madian, S.A. Mahmoud and A.M. Soliman. Low Voltage CMOS Fully Differential Current Feedback Amplifier with Controllable 3-dB Bandwidth, International Conference on Microelectronics, Cairo, Egypt, pp. 7-10, December 2007.
- [46] A.G. Radwan, A.M. Soliman and A.S. Elwakil, Design equations for Fractional Order Sinusoidal Oscillators: Practical Circuit Examples, International Conference on Microelectronics, Cairo, Egypt, pp. 91-94, December 2007.
- [47] R.F. Ahmed and A. M. Soliman, New Analytical Synthesis of Current Mode Multiple Output High Order Filter Structure, International Conference on Microelectronics, Cairo, Egypt, pp. 152-154, December 2007.
- [48] A.K. Elkafrawy and A.M. Soliman, New CMOS Operational Trans-resistance Amplifier, International Conference on Microelectronics, Sharjah, UAE, pp.31-34. December 2008.
- [49] A.H Madian, S.A. Mahmoud and A.M. Soliman, Field programmable analog array based on CMOS CFOA and its application, Electronics, Circuits and Systems, 15th IEEE International Conference ICECS, pp.1042 – 1046, September 2008.
- [50] H. Mostafa and A.M. Soliman, Novel Low-Power Accurate Wide-band CMOS Negative-Second-Generation-Current-Conveyor Realizations Based on Floating-Current-Source Building Blocks, IEEE Toronto International Conference Science and Technology for Humanity, Toronto, Canada, pp. 720-725, September 2009.
- [51] M. Abouzeid, H. Osman, A.N. Mohieldin, A.Emira and A.M. Soliman, An Integrated SAW-Less Narrowband RF Front-End, Midwest Symposium on Circuits and Systems, article no. 5548913, pp. 664-667 Seattle, WA, August 2010.
- [52] S.A. Mahmoud, E.A. Soliman, M. Ortmanns and A.M. Soliman, High Speed Fully Differential Second Generation Current Conveyor, Midwest Symposium on Circuits and Systems, article no. 5548789, pp. 953-956, Seattle, WA, August 2010.

- [53] R. F. Ahmed, A. G. Radwan, A. H. Madian and A.M. Soliman, Built In Current Sensor for Testing Catastrophic Faults on CMOS Digital Circuits, IEEE International Conference on Modeling, Simulation and Control (ICMSC), pp 69-72, Cairo, Egypt, November 2010.
- [54] R. F. Ahmed, A. H. Madian, A. G. Radwan and A.M. Soliman, Built-In Current Sensor for Testing Operational Trans-resistance Amplifier, IEEE International Conference on Modeling, Simulation and Control (ICMSC), pp 73-76, Cairo, Egypt, November 2010.
- [55] L.S. Ahmed, A.H. Madian, M.H, Ismail and A.M. Soliman, CMOS Digitally Programmable Lossless Floating Inductor, IEEE International Conference of Electron Devices and Solid- State Circuits (EDSSC), Hong Kong, December 2010.
- [56] R. F. Ahmed, A. G. Radwan, A. H. Madian and A.M. Soliman, Built-In-Current-Sensor for Testing Short and Open Faults in CMOS Digital Circuits, IEEE International Conference on Microelectronics (ICM), pp. 276-279, Cairo, Egypt, December 2010.
- [57] R. F. Ahmed, A. H. Madian, A. G. Radwan and A.M. Soliman, Built-In Current Sensor for Testing Current Feedback Operational Amplifier, IEEE International Conference on Microelectronics (ICM), pp. 339-342, Cairo, Egypt, December 2010.
- [58] R. F. Ahmed, A. H. Madian, A. G. Radwan and A.M. Soliman, Analog Fault Diagnosis by Inverse Problem Technique, IEEE International Conference on Microelectronics (ICM), pp. , Hammamet, Tunisia, December 2011.
- [59] A. Soltan, A. Radwan and A. M. Soliman, Butterworth Passive Filter in the Fractional – Order, IEEE International Conference on Microelectronics (ICM), Hammamet, Tunisia, December 2011.
- [60] L. Said, A. Radwan, A. Madian and A. M. Soliman, Two Port Network Analysis for three impedance based Oscillators, IEEE International Conference on Microelectronics (ICM), Hammamet, Tunisia, doi: 10.1109/ICM.2011.6177365, December 2011.
- [61] S. Abdelaziz, A. Emira, A. G. Radwan, A. N. Mohieldin, A. M. Soliman, A Low Start up Voltage Charge Pump for Thermoelectric Energy Scavenging, IEEE International Symposium on Industrial Electronics (ISIE), 71 – 75, 2011.
- [62] H. Osman, A. Emira, A. N. Mohieldin, M. Abouzied, A.M. Soliman, On-Chip High-Q Bandpass Filtering Using N-phase Current Driven Passive Mixers, 20th European Conference on Circuit Theory and Design (ECCTD), 206 – 209, Linkoping, 2011.
- [63] S. Abdelaziz, A. G. Radwan, A. Eladawy, A. N. Mohieldin, A. M. Soliman, A Low Start-Up Voltage Charge Pump for Energy Harvesting Applications, International Conference on Engineering and Technology (ICET), 2012.
- [64] L. A. Said, A. H. Madian, M. H. Ismail and A. M. Soliman, Digitally Programmable Lossless Floating Inductor Realization using Current Differential Amplifier (CDA), 16th IEEE Mediterranean Electrotechnical Conference (MELECON), 840 – 843, 2012.

- [65] R. F. Ahmed, A. H. Madian, A. G. Radwan and A.M. Soliman, Analog Fault Diagnosis and Testing by Inverse Problem Technique, IEEE- ICECS 2012 Seville, Spain, December 2012.
- [66] A. Soltan, A.G. Radwan and A.M. Soliman, CCII based KHN Fractional Order Filter, Midwest Symposium on Circuits and Systems, pp.197-200, Ohio, doi:10.1109/MWSCAS.2013.6674619 August 2013.
- [67] A. Soltan, A.G. Radwan, A.M. Soliman, General Procedure for Two Integrator Loops Fractional Order Oscillators with Controlled Phase Difference, 25th International Conference on Microelectronics, ICM pp.1,4, 15-18 December 2013.
- [68] L. A. Said, A. H. Madian, A. G. Radwan and A. M. Soliman,, Current Feedback Operational Amplifier (CFOA) Based Programmable Lossless Floating Inductor Realization, 2nd International Conference on Engineering and Technology , German University in Cairo, pp.1- 4, April 2014.
- [69] M E. Fouda, A. Soltan, A. G. Radwan, A. M. Soliman, Multi-Phase Oscillator for Higher-order PSK Applications, (ICECS), Marseille, France, 21st IEEE International Conference on Electronics, Circuits and Systems, pp.494,497, 7-10 December 2014.
- [70] L. A. Said, A. G. Radwan, A. H. Madian and A. M. Soliman, Fractional Order Two Port Network Oscillator with Equal Order, 26th International Conference on Microelectronics (ICM). Qatar, December 2014.
- [71] L. A. Said, A. H. Madian, A. G. Radwan and A. M. Soliman, Current Feedback Operational Amplifier (CFOA) Based Fractional Order Oscillators, The 21st IEEE International Conference on Electronics Circuits and Systems (ICECS), Marseille, France December 2014.
- [72] L. A. Said, A. G. Radwan A. H. Madian, and A. M. Soliman, Two-Port Oscillators Based on Three Impedance Structure, The 2nd International Conference on Electronic Design (ICED). Penang, Malaysia., August 2014.
- [73] L. A. Said, A. H. Madian, A. G. Radwan and A. M. Soliman, Fractional Order Oscillator with Independent Control of Phase and Frequency, The 2nd International Conference on Electronic Design (ICED), Penang, Malaysia, August 2014.
- [74] L.A. Said, A.H. Madian, M.H. Ismail, A.M. Soliman, Current feedback operational amplifier (CFOA) based programmable lossless floating inductor realization, International Conference on Engineering and Technology (ICET), 1-4, 2014.
- [75] A. El-Bayoumi, H. Mostafa and A. M. Soliman, A New Highly-Linear Highly-Sensitive Differential Voltage-to-Time Converter Circuit in CMOS 65nm Technology, IEEE International Symposium on Circuits and Systems (ISCAS), Lisbon, pp. 1262- 1265, 2015.
- [76] O. Abdelkader, H. Mostafa, H. Abdelhamid, A.M Soliman, The Impact of FinFET Technology Scaling on Critical Path Performance under Process Variations, International Conference on Energy Aware Computing Systems & Applications (ICEAC), Egypt, 2015.

- [77] M. Beheiry, A. Aly, H. Mostafa, A.M. Soliman, Direct-Elevator: A modified routing algorithm for 3D-NoCs, 27th International Conference on Microelectronics (ICM), 222-225, 2015.
- [78] A. El-Bayoumi, H. Mostafa, A.M. Soliman, A new 65nm-CMOS 1V 8GS/s 9-bit differential Voltage-Controlled Delay Unit utilized for a Time-Based Analog-to-Digital Converter circuit, 27th International Conference on Microelectronics (ICM), 158-161, 2015.
- [79] O. Abdelkader, H. Mostafa, H. Abdelhamid, A. M. Soliman, Impact of technology scaling on the minimum energy point for FinFET based flip-flops, IEEE International Conference on Electronics, Circuits, and Systems (ICECS), pp. 462-465, December 2015.
- [80] N.A. Khalil, R.F. Ahmed, R.A. Abulsoud, A.M. Soliman, An intelligent technique for generating equivalent KHN circuits using genetic algorithm, IEEE International Conference on Electronics, Circuits, and Systems (ICECS), pp.404-407, December 2015.
- [81] A. El-Bayoumi, H. Mostafa, A.M. Soliman, A new 16-bit low-power PVT-calibrated time-based differential Analog-to-Digital Converter (ADC) circuit in CMOS 65nm technology, IEEE International Conference on Electronics, Circuits, and Systems (ICECS), 492-493, December 2015.
- [82] S. M. Ismail, L.A. Said, A.G. Radwan, A.H. Madian, M.F. Abu-ElYazeed, A. M. Soliman, Generalized fractional logistic map suitable for data encryption, Int. Conference on Science and Technology (TICST), pp. 336-341, 2015.
- [83] L.A. Said, A.G. Radwan, A.H. Madian, A. M. Soliman, Fractional order Oscillators with Single Non-zero Transmission Matrix Element, International Conference on Science and Technology (TICST), pp. 55 - 60, 2015.
- [84] S. M. Ismail, L.A. Said, A.G. Radwan, A.H. Madian, M.F. Abu-ElYazeed, A. M. Soliman, Generalized Delayed Logistic Map Suitable for Pseudo-Random Number Generation, International Conference on Science and Technology (TICST), pp. 327 - 331, 2015.
- [85] A. El-Bayoumi, H. Mostafa, A.M. Soliman, A new highly-linear highly-sensitive differential voltage-to-time converter circuit in CMOS 65nm technology, IEEE International Symposium on Circuits and Systems (ISCAS), pp.1262-1265, 2015.
- [86] L.A. Said, A.G. Radwan, A.H. Madian, A. M. Soliman, Fractional Order Oscillator Based on Single CCII, IEEE 39th International Conference on Telecommunications and Signal Processing (TSP), Vienna, Austria, pp. 599 – 602, 27-29 June 2016.
- [87] L.A. Said, A.G. Radwan, A.H. Madian, A. M. Soliman, Fractional-Order Inverting and Non-inverting Filters Based on CFOA, IEEE 39th International Conference on Telecommunications and Signal Processing (TSP), in Vienna, Austria, pp. 603 – 606, 27-29 June 2016.
- [88] N.A. Khalil, R.F. Ahmed, R.A. Abulsoud, A.M. Soliman, New Op-Amp Circuits Realizations Using Genetic Algorithm, 28th International Conference on Microelectronics (ICM), Cairo, Egypt, pp.321-324, December 2016.

- [89] A. Soltan, A.G. Radwan, A.M. Soliman, Realizing Fractional-Order Elements Using CCII Based Mutators, 28th International Conference on Microelectronics (ICM), Cairo, Egypt, pp. 329-332, December 2016.
- [90] L. Said, , A.G. Radwan, A.H. Madian, A.M. Soliman, Generalized Family of Fractional-Order Oscillators Based on Single CFOA and RC Network, 6th International Conference on Modern Circuits and Systems Technologies, MOCASST, Greece, May 2017.
- [91] A.M. El-Naggar, L. Said, A.G. Radwan, A.H. Madian, A.M. Soliman, Fractional Order Four-Phase Oscillator Based on Double Integrator Topology, 6th International Conference on Modern Circuits and Systems Technologies, MOCASST, Greece, May 2017.
- [92] S.M. Ismail, L. A. Said, A. A. Rezk ,A. G. Radwan, A. H. Madian, M, F. Abu-El Yazeed, A, M. Soliman, Image encryption based on double-humped and delayed logistic maps for biomedical applications, 6th International Conference on Modern Circuits and Systems Technologies, MOCASST, Greece, May 2017.
- [93] S.M. Ismail, L. A. Said, A. A. Rezk ,A. G. Radwan,A. H. Madian, M, F. Abu-El Yazeed, A, M. Soliman, Biomedical Image Encryption Based on Double-Humped and Fractional Logistic Maps, 6th International Conference on Modern Circuits and Systems Technologies, MOCASST, Greece, May 2017.
- [94] M. Behiry, H. Mostafa, Y. Ismail, A.M. Soliman, 3D-NOCET: A tool for Implementing 3D-NoCs Based on the Direct-Elevator Algorithm, Proceedings - International Symposium on Quality Electronic Design, ISQED, 2017.
- [95] A. Salaheldin, , H. Mostafa, A.M. Soliman, A Codec, Tiles to NoC Router Interface, for Next Generation FPGAs with Embedded NoCs , Midwest Symposium on Circuits and Systems, pp. 1228-1230, August 2017.
- [96] N. A. Khalil, L.A. Said, A.G. Radwan, A.M. Soliman, Two Topologies of Fractional-Order Oscillators Based on CFOA and RC networks, 7th International Conference on Modern Circuits and Systems Technologies, MOCASST, pp. 1-4, Greece, May 2018.
- [97] M. F. Tolba, W. S. Sayed, A. G. Radwan, S. K. Abd-El-Hafiz and A. M. Soliman, Permutation-Only FPGA Realization of Real-Time Speech Encryption, IEEE Int Conf. Electronics, Circuits, and Systems (ICECS), 2018.
- [98] M. F. Tolba, W. S. Sayed, A. G. Radwan, S. K. Abd-El-Hafiz and A. M. Soliman, Hardware Speech Encryption Using a Chaotic Generator, Dynamic Shift and Bit Permutation, Int. Conf. Microelectronics (ICM2018) Tunis, December 2018.
- [99] W. S. Sayed, M. F. Tolba, A. G. Radwan, S. K. Abd-El-Hafiz and A. M. Soliman, Security and Efficiency of Feistel Networks Versus Discrete Chaos for Lightweight Speech Encryption, Int. Conf. Microelectronics (ICM2018), Tunis, December 2018.
- [100] N.A. Khalil, L.A. Said, A.G. Radwan and A.M. Soliman, Fractional Order Inverse Filters Based on CCII Family, 4th International Conference on Advances in Computational Tools for Engineering Applications (ACTEA) Lebanon, 2019.

- [101] N.A. Khalil, L.A. Said, A.G. Radwan and A.M. Soliman, A Simple BJT Inverse Memristor Emulator and Its Application in Chaotic Oscillators, 4th International Conference on Advances in Computational Tools for Engineering Applications (ACTEA) Lebanon, 2019.
- [102] A.M. Hassanein, O.Elwy, L.A. Said, A.G. Radwan and A.M. Soliman, Fractional-order Nonminimum-phase Filter Design, 4th International Conference on Advances in Computational Tools for Engineering Applications (ACTE) Lebanon, 2019.
- [103] A.H. Hassan, H. Mostafa, K.N. Salama and A.M. Soliman, A low-power time-domain comparator for IoT applications, Midwest Symposium on Circuits and Systems,2019.
- [104] N. A. Khalil, L. A. Said ,A. G. Radwan , A. M. Soliman, Multifunction Fractional Inverse Filter Based on OTRA, Novel Intelligent and Leading Emerging Sciences Conference (NILES), Egypt 2019.
- [105] N. A. Khalil, L. A. Said ,A. G. Radwan , A. M. Soliman, A Universal Floating Fractional-Order Elements/Memelements Emulator, Novel Intelligent and Leading Emerging Sciences Conference (NILES), Egypt 2019.
- [106] N. A. Khalil, M.E. Fouda, L. A. Said ,A. G. Radwan , A. M. Soliman, Fractional order memelment emulation circuit, Novel Intelligent and Leading Emerging Sciences Conference (NILES), Egypt 2019.
- [107] A Ghobashy, Ashraf, A. H. Hassan, H Mostafa, and A. M. Soliman
Design Optimization Methodology for High-Efficiency RF-to-DC Converters, ICM 2019
- [108] N A. Khalil, M E. Fouda, L A. Said, A G. Radwan, and A. M. Soliman, On Series Connections of Fractional-Order Elements and Memristive Elements, ICM 2020
- [109] N A. Khalil, M E. Fouda, L A. Said, A G. Radwan, and A. M. Soliman
Fractional-order Memristor Emulator with Multiple Pinched Points, ICM 2020
- [110] AH Hassan, ZE Mohamed, AE Fahmy, H Mostafa, AM Soliman
Design Trade-Offs for Neural Stimulators Optimization, IEEE International Symposium on Circuits and Systems (ISCAS 2020), 1-5