

CURRICULUM VITAE

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Maria Stefania Carmeli was born in Vizzolo Predabissi (Milan), in 26th October 1972. She received the MS Degree cum laude in Electrical Engineering in 1997 at Politecnico di Milano.

From 30th July 1997 till 31th December 1999 she has been a scientific consultant for Ansaldo Ricerche (Genova, Italy) for the CEE ESPRIT INFORMA project. In 1998 she won the Ercole Bottani award for the best master graduated in 1997.

She attended the courses of the PhD in Electrical Engineering at Politecnico di Milano during the period 1997-2000; on 9th February 2001 she discussed, with success, her final dissertation on "A Unified approach to Direct Torque Control: theory and experimental results".

On 1st February 2002 she won a national competition and she has begun her services as assistant professor at Politecnico di Milano, Department of Electrical Engineering, in the field of Power converter, electrical machines and drives (ING-IND 32). From February 2005 she is a confirmed assistant professor at Politecnico di Milano, where she is endorsed as teacher of the course of "Electrical Machine dynamic models". She is AEIT (Associazione Elettrotecnica Italiana) and IEEE member, in particular she joined IEEE Power Electronics and Industrial Electronics Societies.

She is reviewer of "IEEE Transactions on Power Electronics" and of "IEEE Transactions on Industrial Electronics" and of "Elsevier - Electric Power Systems Research". Moreover she is reviewer for many conferences in the field of electrical machines, converters and drives (i.e. ISIE, PESC, APEC, IECON, ICEM, ICCEP, EPE)

The scientific activity has been focused on the study of the methodologies, the modeling and the techniques for the analysis and the control of the electrical machines, power electronic converters and electrical drives. The specific research

themes developed during these years can be organised in the following fields:

- 1) Innovative control strategies with particular attention to fuzzy logic control algorithms and neuro-fuzzy techniques applied to electrical drive fields.
- 2) Design of digital control of electrical drives: formal methods and real time systems.
- 3) Direct torque control and sensorless control techniques.
- 4) Power electronics, with regard to the study of different converter topologies and to the study of high performance modulation and control strategies applied to medium-high power converters.
- 5) Static converters for distributed generation, with particular care to efficiency increment of the whole process and to the power quality.

DESCRIPTION OF THE RESEARCH FIELDS

1) Innovative control strategies with particular attention to fuzzy logic control algorithms and neuro-fuzzy techniques applied to electrical drives fields.

In this scientific research field the activity has been focused on the study and the project of high performances non-linear control strategies, proposing an original method to the definition of the control system applied to the electrical drives field and to automation systems [1] [51], [52], [57]. In [33] an EDS system, based on a single levitation coil, and its control, has been presented, in [36] a theoretical and experimental analysis of the electromagnetic vibration and noise emission of an external rotor traction permanent magnet motor and its control has been presented.

2) Design of digital control of electrical drives: formal methods and real time systems.

In this scientific research field, an integrated real time simulation system, based on Petri nets has been studied. The aim of this research has been the definition of a real time environment for the simulation, project and validation of real time control systems with particular attention to electrical drives applications. The proposed environment allows the real time emulation of both the controller and the controlled systems, specifying soft and hard real time constraints, with the possibility of validating the whole electrical drive before its physical realisation, allowing the automatic generation of the C code as illustrated in [50], [53] [54] [55]. This research activity has been supported by the European Community ESPRIT INFORMA project EP23163.

In [9] and [19] the problem of the stability of numerical integration algorithms has been studied with particular attention to their application to the state observer implementation in sensorless electrical drives.

3) Direct torque control and sensorless control techniques.

In this scientific research field a sensorless unified direct torque control strategy has been studied and implemented. This unified direct torque control can be applied to

both industrial and traction field with alternative current machines. A formal approach to derive direct torque control using variable structure control and sliding mode theory has been adopted and a detailed analysis of the operation region stability of some switching tables has been mathematically studied [11], [47], [49].

In the field of sensorless control, MRAS control strategy has been analysed and implemented for the doubly fed induction machine drive, considering both stability issue and control strategy aspects [13], [14], [20], [26], [28], [32].

4) Power electronics, with regard to the study of different converter topologies and to the study of high performance modulation and control strategies applied to medium-high power converters.

In this scientific research field, the activity has been focused on multi-switching and multi-converter systems, characterised by complex configurations. A high performance current tracking modulation strategy, characterized by constant overall switching frequency has been proposed [24], [27], [39], [41]-[45], [48]. The proposed modulation strategy belongs to predictive sliding mode control family and the problem of the definition and of the design has been dealt with using a general and systematic approach. This modulation strategy has been studied analysed and presented considering both the power converter external current [25], [39] and the single switching element current according to the modular approach of power electronic building block [16], [21], [44]. The proposed methodology is based on the adoption of linkage flux control variables; this choice allows to take advantage of the potentialities offered by the inductive coupling between the system output inductances [35], [37]. The problem of the control variable decoupling has been considered and solved through a methodological approach in [21] and [25]. Complex configurations have been considered as reported in [4], [7], [35], [37], [40], [25].

5) Static converters for distributed generation, with particular care to efficiency increment of the whole process and to power quality.

In this scientific research field both control issue and configuration possibilities of hybrid distributed generation systems, where more than one renewable energy source together with other not renewable ones are present, have been investigated [5], [6], [8], [2], [3] [17], [23], [33], [36]. The study and the analysis of medium voltage direct current generation systems have been presented in [10], [15], [18]. Photovoltaic generation systems have been studied and analysed in [12] and [29]. In this research field she is a co-inventor of an equipment for which a national patent request has been deposited on 11/04/2007 with the title: "Sistema di conversione e controllo per impianti di generazione distribuita" (A system of conversion and control for distributed generation plants) [32].

References

1. 2013 M. S. Carmeli M. Mauri HIL test bench to test anti-swing fuzzy control of an overhead crane pp- 754-760 IEEE International Conference on

- Mechatronics Vicenza (ITALY) - February 27-28 , March 1 2013
2. 2013 M. S. Carmeli, F. Castelli Dezza, M. Mauri, L. Piegari Energy Recovery and efficiency optimization in a wood cutting machines. (ITALY) International Conference on clean electrical power, 2013, ICCEP 2013 Alghero June10-13 2013.
 3. 2013 Design and Realization of High Efficiency Fun-to-Drive urban LEV. M. Mauri, F. Castelli Dezza, M. S. Carmeli, G. Galmarini (ITALY) International Conference on clean electrical power, 2013, ICCEP 2013 Alghero June10-13 2013.
 4. 2013 S. Barcellona M. S. Carmeli, G. Superti-Furga Comparison Between Matrix Converter and Indirect Matrix Converter Journal of Electrical Systems ISSN 1112-5209, accepted for publication.
 5. 2013 A. Bezzolato, M. S. Carmeli, L. Frosio, M. Mauri, and G. Marchegiani, Parallel connected pv-inverters: zero frequency sequence harmonic analysis and solution (2013) International Journal of Emerging Electric Power Systems. Volume 14, Issue 2, Pages 199–206, ISSN (Online) 1553-779X, ISSN (Print) 2194-5756, DOI: 10.1515/ijeeps-2012-0006.
 6. 2013 A Novel Mechanical Hardware in the Loop Platform for Distributed Generation Systems; M. S. Carmeli, F. Castelli- Dezza, M. Mauri, and G. Marchegiani (2013) Distributed Generation and Alternative Energy Journal, 28 (3), pp. 7-27.
 7. 2013 S. Barcellona, M. S. Carmeli, G. Superti-Furga, Comprehensive harmonic analysis of matrix converter under unbalanced/distorted conditions, (2013) Electric Power Systems Research, 96, pp. 296-310.
 8. 2012 - M. S. Carmeli, F. Castelli Dezza, M. Mauri, M. Marchegiani, D. Rosati (2012). Control strategies and configurations of hybrid distributed generation systems. RENEWABLE ENERGY, vol. 41, p. 294-305, ISSN: 0960-1481, doi: 10.1016/j.renene.2011.11.010
 9. 2012 - M. Iacchetti, R. Perini, M. S. Carmeli, F. Castelli-Dezza, N. Bressan (2012). Numerical Integration of ODEs in Real Time Systems like State Observers: Stability Aspects. IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 48, p. 132-141, ISSN: 0093-9994, doi: 10.1109/TIA.2011.2175471
 10. 2012 - Maria Stefania Carmeli, Denis Forlani, Samuele Grillo, Roberto Pinetti, Enrico Ragaini, Enrico Tironi (2012). A Stabilization Method for DC Networks With Constant-Power Loads. In: 2012 IEEE International Energy Conference and Exhibition (ENERGYCON). p. 617-622, ISBN: 9781467314541, Firenze - Italy, 9-12 settembre 2012, doi: 10.1109/EnergyCon.2012.6348226
 11. 2011 - M. S. Carmeli, M. Mauri (2011). Direct torque control as variable structure control: Existence conditions verification and analysis . ELECTRIC POWER SYSTEMS RESEARCH, vol. 81, p. 1188- 1196, ISSN: 0378-7796, doi: 10.1016/j.epsr.2011.01.007

- 12.2011 - A. Bezzolato, M. S. Carmeli, L. Frosio, G. Marchegiani, M. Mauri (2011). Reduction of high frequency zero sequence harmonics in parallel connected PV-inverters . In: European Conference on Power Electronics and Applications EPE 2011. Noottingham, p. 1-10, ISBN: 9781612841670
- 13.2010 - M. S. Carmeli, F. Castelli Dezza, M. Iacchetti, R. Perini (2010). Effects of Mismatched Parameters in MRAS Sensorless Doubly Fed Induction Machine Drives. IEEE TRANSACTIONS ON POWER ELECTRONICS, vol. 25, p. 2842-2851, ISSN: 0885-8993, doi: 10.1109/TPEL.2010.2051163
- 14.2010 - Articolo in rivista M. S. Carmeli, F. Castelli Dezza, M. Iacchetti, R. Perini (2010). A speed sensorless control based on a MRAS applied to a double fed induction machine drive . ELECTRICAL ENGINEERING, vol. 91, p. 337-345, ISSN: 0948-7921, doi: 10.1007/s00202-009-0144-8
- 15.2010 - CARMELI M, F. CASTELLI DEZZA, D. ROSATI, G. MARCHEGIANI, M. MAURI (2010). MVDC connection of offshore wind farms to the transmission system. In: International Symposium on Power Electronics, Electrical drives Automation and Motion, Speedam. Pisa, 14/06/2010 - 16/06/2010, p. 1201-1206, ISBN: 9781424449866, doi: 10.1109/SPEEDAM.2010.5542219
- 16.2010 - M. S. Carmeli, F. Castelli Dezza, L. Piegari, G. Superti Furga (2010). Digital Synchronous Current Control of Power Electronic Building Block in Modular Converters. In: ISIE 2010, International Symposium on Industrial Electronics.. Bari, 4/7/2010-7/7/2010, p. 2909-2914, ISBN: 9781424463909
- 17.2010 - CARMELI M, F. CASTELLI DEZZA, G. GALMARINI, M. MAURI, L. PIEGARI (2010). A vehicle with very low fuel consumption: realization, analysis and optimization. In: XIX International Conference on Electrical Machines - ICEM 2010. Rome - ITALY, 06/09/2010 - 08/09/2010, p. 1-6, ISBN: 9781424441754, doi: 10.1109/ICELMACH.2010.5607879
- 18.2010 - CARMELI M, F. CASTELLI DEZZA, G. MARCHEGIANI, M. MAURI, D. ROSATI (2010). Design and analysis of a Medium Voltage DC wind farm with a transformer-less wind turbine generator. In: XIX International Conference on Electrical Machines (ICEM 2010). Rome, 06/09/2010 - 08/09/2010, p. 1-6, ISBN: 9781424441747, doi: 10.1109/ICELMACH.2010.5607878
- 19.2010 - N. BRESSAN, CARMELI M, F. CASTELLI DEZZA, M.F. IACCHETTI, R. PERINI (2010). Numerical Integration of ODEs in Real Time Systems like State Observers: Stability Aspects. In: XIX International Conference on Electrical Machines - ICEM 2010. Rome - ITALY, 06/09/2010 - 08/09/2010, p. 1-7, ISBN: 9781424441754, doi: 10.1109/ICELMACH.2010.5608089
- 20.2010 - M. S. Carmeli, F. Castelli-Dezza, M. Iacchetti, R. Perini (2010). A MRAS observer applied to sensorless doubly fed induction machine drives. In: ISIE 2010, International Symposium on Industrial Electronics. p. 3077-3082, ISBN: 9781424463916, Bari, Italy, 4/7/2010 - 7/7/2010
- 21.2009 - M.S. Carmeli, F. Castelli Dezza, G. Superti Furga (2009). Generalized

- Decoupling Method for Current-Controlled Multiswitching Systems. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 56, p. 348-359, ISSN: 0278-0046, doi: 10.1109/TIE.2008.2008785
- 22.2009 - M.S. Carmeli, F. Castelli-Dezza, M. Mauri, D. Rosati, G. Marchegiani (2009). Design and Application of a Linux Real Time board for Distributed Power Generation. In: IECON09. p. 1-6, ISBN: 9781424446483, Porto - Portugal, 1/11/2009-5/11/2009
- 23.2009 - CARMELI M, CASTELLI DEZZA F., MARCHEGIANI G., MAURI M., PIEGARI L., ROSATI D. (2009). Hybrid PV-CHP distributed system: Design aspects and realization. In: International Conference on Clean Electrical Power 2009. Capri, Italy, 9-11 June 2009, p. 782-789, ISBN: 978-1-4244-2544-0, doi: 10.1109/ICCEP.2009.5211963
- 24.2009 - CARMELI M, CASTELLI DEZZA F., SUPERTI FURGA G. (2009). Comparison of high dynamic current tracking methods for multiswitching systems. In: 13th European Conference on Power Electronics and Applications,. Barcelona, 8/9/2009-10/9/2009, p. 1-9, ISBN: 978-1-4244-4432-8
- 25.2008 - M.S. Carmeli, F. Castelli Dezza, G. Superti Furga (2008). Master-Slave Predictive Current- Tracking Approach in Multiswitching Systems. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 55, p. 4335-4345, ISSN: 0278-0046, doi: 10.1109/TIE.2008.2007020
- 26.2008 - M.S. Carmeli, R. Perini, M. Iacchetti, F. Castelli Dezza (2008). Effect of the Inverter Non- linearities Compensation on a MRAS Speed Estimator in a Double Fed Induction Motor Drive. ELECTRICAL ENGINEERING, vol. 90, p. 283-291, ISSN: 0948-7921, doi: 10.1007/s00202-007- 0080-4
- 27.2008 - Carmeli M. S., Castelli Dezza F., Superti Furga G., Iacchetti M. (2008). Hierarchical current tracking in multiswitching systems. In: IEEE Power Electronics Specialists Conference (PESC 2008). p. 3544-3549, ISBN: 9781424416684, Rhodes, Greece, 15-19 June 2008, doi:10.1109/PESC.2008.4592504
- 28.2008 - Carmeli M. S., Castelli Dezza F., Iacchetti M., Perini R. (2008). Effect of the errors in the rotor position estimation on the stability of a Double Fed Induction Motor where the mechanical quantities are estimated by a MRAS. In: 19th International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 08). p. 1233-1238, ISBN: 9781424416639, Ischia, Italy, 11-13 June 2008
- 29.2008 - CARMELI M, CASTELLI DEZZA F., FARANDA R., MARCHEGIANI G., MAURI M. (2008). Advanced control strategy for PQ improvement in PV systems without energy storage device. In: 19th International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM. Ischia, Italy, 11-13 June 2008, p. 217-222, ISBN: 978-1-4244-1664-6, doi: 10.1109/SPEEDHAM.2008.4581300
- 30.2006 - M.S. CARMELI, F. CASTELLI DEZZA, M. MAURI, G. SUPERTI FURGA (2006). The Inductance Set Design in Wide Bandwidth

- Multiswitching Converters. In: EPE-PEMC 2006, 12th International Power Electronics and Motion Control Conference. p. 757-762, ISBN: 1424401216, Portoroz, Slovenia, 30 agosto-1 settembre 2006
- 31.2006 - M. Andriollo, S. Carmeli, F. Castelli Dezza, M. Mauri (2006). Control Design Aspects for an EDS Levitation System. In: IEEE Int. Symposium on Power Electronics, Electrical Drives, Automation and Motion - SPEEDAM -. vol. 11, p. 17-22, ISBN: 1424401933, Taormina (Italy), 2006
 - 32.2006 - S. Carmeli, F. Castelli Dezza, R. Perini (2006). Inverter Nonlinearities Compensation in a Double Fed Induction Motor Drive close to Synchronous Speed. In: Int. Conference on Electrical Machines - ICEM -. p. 1-6, Chania (Greece), 2006
 - 33.2006 - S. Carmeli, F. Castelli Dezza, R. Faranda, G. Marchegiani, M. Mauri (2006). Universal Digital Controller for Power Quality and Distributed Generation Systems. In: IEEE Int. Symposium on Power Electronics, Electrical Drives, Automation and Motion - SPEEDAM -. vol. 17, p. 17-22, ISBN: 1424401933, Taormina (Italy), 2006
 - 34.2006 - S. Carmeli, F. Castelli Dezza, M. Mauri (2006). Electromagnetic Vibration and Noise Analysis of an External Rotor Permanent Magnet Motor. In: IEEE Int. Symposium on Power Electronics, Electrical Drives, Automation and Motion - SPEEDAM -. vol. 7, p. 20-25, ISBN: 1424401933, Taormina (Italy), 2006
 - 35.2006 - S. Carmeli, F. Castelli Dezza, G. Superti Furga (2006). Innovative Capacitive Decoupling for a Universal Power Conditioner Based on Two-Shunt-VSI Topology. In: IEEE Int. Power Electronics and Motion Control Conference - EPE-PEMC -. p. 1688-1693, ISBN: 1424401216, Portoroz, Slovenia, 2006
 - 36.2005 - Andriollo, T. Bertoncelli, S. Carmeli, Tamburrino (2005). Optimization of the power flow management in a fuel-cell supplied vehicle for the public city transportation. In: Proc. International Electric Machines and Drives Conference (IEMDC). San Antonio (TX) - USA, p. 1801- 1808, ISBN: 0780389875
 - 37.2005 - S. Carmeli, F. Castelli Dezza, G. Superti Furga (2005). Design and performances of an Innovative Universal Power Conditioner with UPS Function. In: Proc. International Conference on Power Electronics and Intelligent Control for Energy Conservation (PELINCEC). Warsaw, Poland, p. 1-9
 - 38.2005 - S. Carmeli, F. Castelli Dezza, R. Perini (2005). Double Fed Induction Machine Drive: Proposal of a Speed Sensorless Control Based on a MRAS. In: Proc. International Electric Machines and Drive Conference (IEMDC). San Antonio (TX) - USA, p. 1-7, ISBN: 0780389875, doi: 10.1109/IEMDC.2005.195754
 - 39.2005 - S. Carmeli, F. Castelli Dezza, G. Superti Furga (2005). Discrete-time predictive modulation approach in multiswitching systems. In: Proc. International Conference on Power Electronics and Intelligent Control for

- Energy Conservation (PELINCEC). Warsaw, Poland, p. 1-7
- 40.2005 - S. Carmeli, F. Castelli Dezza, G. Superti Furga (2005). Sliding Mode Control for an Innovative Universal Power Conditioner with UPS Function. In: Proc. IEEE International Symposium on Industrial Electronics. Dubrovnik, Croazia, p. 651-656, ISBN: 0780387384
 - 41.2004 - S. Carmeli, F. Castelli Dezza, G. Superti Furga (2004). Switching strategies for high bandwidth multiconverter systems. In: EPE-PEMC 2004. p. 1-7, ISBN: 9984320103, Riga - Latvia, September, 2-4, 2004
 - 42.2004 - S. Carmeli, F. Castelli Dezza, G. Superti Furga (2004). Predictive modulation strategy for multi- switching converters. In: Proc. IEEE Power Electronics Specialists Conference. p. 2211-2216, ISBN: 0780383990, Aachen - Germany, 20-25 Giugno 2004, doi: 10.1109/PESC.2004.1355463
 - 43.2004 - S. Carmeli, F. Castelli Dezza, G. Superti Furga (2004). Power converter system as high performance controlled voltage source. In: Proc. International Symposium on Power Electronics, Electrical Drives, Automation, Motion-Speedam 2004. p. 783-788, ISBN: 8889389001, Capri - Italy, June 16-18, 2004
 - 44.2003 - S. Carmeli, F. Castelli Dezza, G. Superti Furga (2003). Constant frequency current modulation algorithm based on linkage flux. In: Proc. IEEE Power Electronics Specialist Conference. p. 195- 200, ISBN: 0780377540, Acapulco - Mexico
 - 45.2003 S. Carmeli, F. Castelli Dezza, G. Superti Furga (2003). Vector control of induction machine based on Smart Modulation algorithm. In: EPE European Conference on Power Electronics and Applications. p. 1-7, ISBN: 9075815077, Toulouse - France
 - 46.2002 - S. Carmeli, F. Castelli Dezza, G. Superti Furga (2002). Coupled inductors method for current ripple minimising in modular converters. In: Int. Power Electronic and motion control conference. p. 1-10, ISBN: 9531840474, Cavtat&Dubrovnik - Croatia
 - 47.2002 - S. Carmeli, F. Castelli Dezza, Inzoli (2002). A predictive direct torque control of synchronous reluctance motor. In: Int. Conference on Electrical Machines. p. 1-5, ISBN: 9076019185, Brugge - Belgium
 - 48.2001 - S. Carmeli, F. Castelli Dezza, G. Superti Furga (2001). Smart modulation: a new approach to power converter control. In: EPE 01, 9th European Conference on Power Electronics and Applications. p. 1-9, ISBN: 9075815069, Graz – Austria
 - 49.2001 - S. Carmeli, A. Monti (2001). A unified predictive DTC algorithm for AC machine sensorless control. In: EPE 01, 9th European Conference on Power Electronics and Applications. p. 1-7, ISBN: 9075815069, Graz - Austria
 - 50.1999 - M.S. CARMELI, CASTELLI DEZZA F, F. MAPELLI, A. MONTI (1999). A formal approach to PLD design: from simulation to laboratory test. In: MASTORAKIS NIKOS E.. Modern Applied Mathematics Techniques in Circuits, Systems and Control. p. 312-317, ISBN: 960-8052-05-X
 - 51.1999 - M. S. Carmeli, F. Castelli Dezza, A. Monti (1999). A new approach to

- fuzzy rules extraction for electrical drive control. In: EPE '99, 8th European Conf. On Power Electronics and Applications. Lausanne (Switzerland), 7-9 settembre 1999, p. 1-10, ISBN: 9075815042
- 52.1999 - M. S. Carmeli, A. Monti (1999). A CAD Tool For Automatic Synthesis Of Fuzzy Controllers In Electrical Drive Applications. In: Third International ICSC Symposia on Intelligent Industrial Automation IIA 99 . Genova, ISBN: 3906454169
- 53.1998 - S. Carmeli, E. Cosatto, A. Monti, C. Penno (1998). Software design methodology for power electronics applications. In: COMPEL 98. Cernobbio, Italy, 19/7-22/7, p. 17-23, ISBN: 0780348567, doi: 10.1109/CIPE.1998.779650
- 54.1998 - S. Carmeli, M. Lazzaroni, A. Monti (1998). PLD implementation of control algorithms: design and validation . In: IEEE International Symposium on Circuits and Systems (ISCAS 98) . p. B514- B517, ISBN: 0780344553, doi: 10.1109/ISCAS.1998.704062
- 55.1998 - M. S. Carmeli, F. Castelli Dezza, A. Monti (1998). A new platform for real time testing of electrical drive digital control. In: COM.P.EL. '98, 6th IEEE Power Electronics Society Workshop on Computers in Power Electronics. Como (ITALY), 19-22 luglio 1998, p. 75-80, ISBN: 0780348567
- 56.1998 - M. S. Carmeli, F. Castelli Dezza, R. Manigrasso, A. Monti (1998). La simulazione in tempo reale come strumento di validazione e testing. In: CIFI '98, "La tecnologia del trasporto su ferro e l'orientamento al mercato". Napoli (ITALY), 27/28 novembre 1998, p. 506-511
- 57.1998 - M. S. Carmeli, A. Monti (1998). Applying Fuzzy Logic Control To Electrical Drive. In: International Conference on Control Engineering and Signal Processing. Piura Perù