

Curriculum Vitae

INFORMAZIONI PERSONALI

Nome ENRICO
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FORMAZIONE TITOLI

LAUREATO IN INGEGNERIA ELETTRONICA (1978)
RICERCATORE UNIVERSITARIO (1983)
PROFESSORE ASSOCIATO (1998)

Possiede competenze linguistiche di Francese ed Inglese (a livello equivalente ad almeno B2).

ATTIVITA' DIDATTICA

DOCENTE DI "FONDAMENTI DI ELETTRONICA" (Corso di Laurea in "Ingegneria Informatica e delle Telecomunicazioni")
DOCENTE DI "ELETTRONICA DELLE MICROONDE" (Corso di Laurea Magistrale in "Elettronica")
DOCENTE DI "PROGETTAZIONE AUTOMATICA DEI CIRCUITI ELETTRONICI" (Corso di Laurea Magistrale in "Elettronica")

RICERCHE FINANZIATE

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ASSOCIAZIONI SCIENTIFICHE

Membro IEEE (dal 1976), attualmente con status di "life member"
Già socio AEIT ed ACM

PUBBLICAZIONE

PUBBLICAZIONI RECENTI:

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PUBBLICAZIONI STORICHE:

- [1] E. Calandra, A. Sommariva: "Stability analysis of injection-locked oscillators in their fundamental mode of operation", IEEE Trans. Microwave Theory Tech., vol. MTT-29, pp. 1137-1144, Nov. 1981.
- [2] E. Calandra, G. Martines, M. Sannino: "Characterization of GaAs FETs in terms of noise, gain, and scattering parameters through a noise parameter test-set", IEEE Trans. Microwave Theory Tech., vol. MTT-32, pp. 231-237, Mar. 1984.
- [3] E. Calandra, A. Sommariva: "On the dynamical stability of negative conductance free-running oscillators", IEE Proc., vol. 132, Pt. G, No. 4, pp. 143-148, Aug. 1985.
- [4] E. Calandra, A. Sommariva: "Subharmonic phase-lock criteria for a class of weakly-nonlinear high-order oscillators", Int. J. Cir. Theor. Appl., vol. 13, No. 4, pp. 295-307, Oct. 1985.
- [5] E. Calandra, A. Sommariva: "Necessary and sufficient conditions for frequency entrainment of quasi-sinusoidal injection-synchronized oscillators", IEEE Trans. Circuits Syst., vol. CAS-33, No. 1, pp. 83-93, Jan. 1986.
- [6] E. Calandra, A. Sommariva: "Approach to the analysis of nonlinear feedback oscillators under large-signal injection", IEE Proc., vol. 133, Pt. G, No. 5, pp. 233-241, Oct. 1986.
- [7] E. Calandra, A. Sommariva: "Transient analysis of multiple-tuned injection locked amplifiers with modulated input signal", IEEE Trans. Microwave Theory Tech., vol. MTT-37, No. 5, pp. 826-835, May 1989.

- [8] E. Calandra, A. Sommariva: "A method for the investigation of high-order two-frequency asynchronous oscillators", *Int. J. Cir. Theor. Appl.*, vol. 20, No. 2, pp. 117-135, March-Apr. 1992.
- [9] E. Calandra, A. Sommariva: "Application of polynomial congruences to the analysis of black-box circuit dynamics", *Proceedings of the 32nd Midwest Symposium Circuits Syst.*, Urbana (USA), vol. 2, pp. 1226-1229, Aug. 1989.
- [10] E. Calandra, A. Sommariva: "An approach to the analysis of nonlinearly terminated black-box circuits based on polynomial congruence techniques", *Proceedings of the 33rd Midwest Symposium Circuits Syst.*, Calgary (CA), pp. 885-888, Aug. 1990.
- [11] E. Calandra, A. Sommariva: "Computer-aided investigation of active-diode nonlinear capacitance effects on the dynamical performances of injection-synchronised oscillators as high-speed BPSK amplifiers", *Proceedings of the 34th Midwest Symposium Circuits Syst.*, Monterey (USA), pp. 291-294, May 1991.
- [12] E. Calandra: "Experiments on fundamental and (sub)harmonic direct optical injection-locking of GaAs FET oscillators", *Proceedings of the 34th Midwest Symposium Circuits Syst.*, Monterey (USA), pp. 311-315, May 1991.
- [13] E. Calandra, A. Sommariva: "On the phase-interaction-free operation of multi-frequency negative-conductance oscillators", *Proceedings of the 10th European Conf. Circuit Theory Design*, Copenhagen (DK), pp. 1377-1386, Sept. 1991.
- [14] E. Calandra, A. Sommariva: "Analysis of phase-locked high-order oscillators under low-level injection", *Proceedings of the 35th Midwest Symposium Circuits Syst.*, Washington (USA), pp. 453-456, Aug. 1992.
- [15] E. Calandra: "DC/RF characterisation and modeling of illuminated GaAs MESFETs", *Proceedings of the 35th Midwest Symposium Circuits Syst.*, Washington (USA), pp. 1167-1172, Aug. 1992.
- [16] E. Calandra, A. Sommariva: "Perturbation technique for the investigation of oscillating frequency-converters in the dynamical phasor-domain", *Proceedings of the 36th Midwest Symposium Circuits Syst.*, Detroit (USA), pp. 1221-1224, Aug. 1993.
- [17] E. Calandra, A. Sommariva: "Small-signal analysis of sub-, super-, and supersub-harmonic injection-locked oscillators through secondary simplification technique", *Proceedings of the 11th European Conf. Circuit Theory Design*, Davos (CH), pp. 1015-1020, Aug-Sept. 1993.
- [18] E. Calandra, G. Sirna: "CAD-oriented modeling of the optically controlled GaAs MESFET", *Proceedings of the 3rd International Symposium on Gallium Arsenide*, Torino, pp. 401-404, Apr. 1994.
- [19] E. Calandra, A. Sommariva: "Influence of the driving-signal resonant overtone on subharmonic injection-locking characteristics", *Proceedings of the International Symposium on Circuits and Systems*, London (UK), pp. 209-211, June 1994.
- [20] E. Calandra: "Measurement-based modeling of microwave transistor package and test-fixture for device s-parameters deembedding", *37th Midwest Symposium Circuits Syst.*, Lafayette (USA), pp. 1227-1230, Aug. 1994.
- [21] E. Calandra: "A novel approach to the characterization and modeling of microwave transistor packages", *Proceedings of the 24th European Microwave Conference*, Cannes (FR), pp. 1398-1403, Sept. 1994.
- [22] E. Calandra, F. Silvestri: "Computationally efficient dynamical analysis of optically-driven injection-locked GaAs FET oscillators", *Proceedings of the 25th European Microwave Conference*, Bologna, pp. 1235-1240, Sept. 1995.
- [23] E. Calandra: "On the model extraction of microwave transistor's and MMIC's packages from experimental data", *Proceedings of the 2nd International Symposium on Electromagnetic Compatibility*, Roma, pp. 496-501, Sept. 1996.
- [24] E. Calandra, C. Maniscalco: "An extended two-port Van der Pol model for the efficient simulation of injection-locked oscillator steady-state and transient response", *Proceedings of the 14th European Conference on Circuit Theory and Design*, Stresa, pp. 185-188, Sept. 1999.
- [25] E. Calandra: "Computationally-efficient behavioral modeling of pulsed injection-locked amplifiers", *Proceedings of the 2001 European Conference on Circuit Theory and Design*, Espoo (FI), pp. II/69-II/72, 28-31 Aug. 2001.
- [26] E. Calandra, R. Ruggirello: "Experimental characterization and compact modeling of microwave injection-locked pulsed oscillators", *Proceedings of the 11th International Crimean Microwave Conference*, Sevastopol (UA), pp. 145-148, 10-14 Sept. 2001.
- [27] E. Calandra, R. Ruggirello: "Behavioural Modeling of Microwave Oscillating Amplifiers", *Proceedings of the 5-th IEEE international workshop on Behavioural Modeling and Simulation*, Santa Rosa (USA), pp.15-19, 10-12 Oct. 2001.

ATTIVITA' SCIENTIFICHE

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AMBITI DI RICERCA

ELETTRONICA DELLE MICROONDE
 PROGETTAZIONE ASSISTITA DA CALCOLATORE DI CIRCUITI ELETTRONICI
 TEORIA DEI CIRCUITI NONLINEARI
 ALGORITMI E METODI ECAD
 MODELLISTICA DI DISPOSITIVI ELETTRONICI PER IPERFREQUENZE
 MISURE DI RUMORE DI TRANSISTORI PER MICROONDE
 CONTROLLO OTTICO DI DISPOSITIVI AD IPERFREQUENZE

TRANSISTORI IN GRAFENE

ALTRE ATTIVITA

Ha svolto attività di "conto terzi" di caratterizzazione e modellistica di transistori ad eterostruttura per la Ditta "ST Microelectronics" (sede di Catania).

E' stato LAN-manager, Mail-system Administrator e Webmaster per il suo Dipartimento per numerosi anni.