

Curriculum Vitae - Domenico Chianese

General data	
First Name:	Domenico Date of birth: 20 luglio 1963
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via, luogo:	Casa Cappellanica, 6721 Motto (Blenio)
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School		
from	to	Scuola / formazione
1979	1983	CFC in mechanic and electronic, AGIE in Losone (Switzerland)
1984	1987	School of engineer ETS, eng. In Industrial Electronic, Yverdon-les-Bains (Switzerland)

Professional activities			
form	to	Company	Position
1983	1983	AGIE Losone	Electronic, development of electronic simulator
1984	1984	Hermes Precisa International a Yverdon-les-Bains	Electronic, development of electronic simulator
1988	1997	Project TISO, Dipartimento del Territorio, sez. protezione aria e acqua.	Researcher in photovoltaic technologies.
1998	Now	University of Applied Science of Southern Switzerland (SUPSI), ISAAC	Senior Researcher (photovoltaic technologies)
2001	2010	SUPSI, Istituto di Sostenibilità Applicata all'Ambiente Costruito (ISAAC)	Head of photovoltaic (PV) sector
2010	2013	SUPSI, Istituto di Sostenibilità Applicata all'Ambiente Costruito (ISAAC)	Head of "Photovoltaic and Electrical System Group"
1998	2000	SUPSI, Dipartimento Tecnologia ed Innovazione (DTI), Laboratorio di MicroElettronica (LME)	Researcher: Design of linear bipolar semi-custom Integrated circuit (IC).
2001	2004	SUPSI, Dipartimento Tecnologia ed Innovazione (DTI)	Teacher: power electronic laboratory
1999	2003	SUPSI, Dipartimento Tecnologia ed Innovazione (DTI)	Teacher: Photovoltaic solar energy.
2000	2001	SUPSI, Dipartimento Tecnologia ed Innovazione (DTI)	Teacher: Design of analog integrated circuit
2002	2013	Swiss expert group TC82 (photovoltaic), IEC (International Electrotechnical Commission).	Member
2007	Now	BRENET (Building and Renewable Energies Network of Technology - Nationales Kompetenznetzwerk Gebäudetechnik und Erneuerbare Energien).	Committee member

Seminar and training courses		
Data	Place	Position and Course title
2010-11-12 and 2013	Arba Minch University, Ethiopia	Director and teacher: "Solar Training"
2012	Kathmandu, Nepal, Tribhuvan University	Teacher: "Design of PV Grid Connected Plants"
2009-11	Kathmandu, Nepal, Tribhuvan University	Teacher: "Design of PV Grid Connected Plants" e del Workshop "Photovoltaic Grid Connected Systems in Nepal".
2009-04	Kathmandu, Nepal, Tribhuvan University	Teacher: "Design of PV Grid Connected Plants in Nepal"
2007-2008-2011	Trevano, SUPSI	Responsabile e relatore: "Progettazione di impianti collegati alla rete ed autonomi", corso di formazione continua e in seguito corso EN3.27 nell'ambito del DAS "Energy Management"
2006-2007	Trevano, SUPSI	Relatore al corso FC: E.13 "Architettura ed energia solare – parte 2 : fotovoltaico"
2005-2006-2007-2008	Trevano, SUPSI	Docente al corso FB-GC "Ecologia": La tecnica fotovoltaica
2000-01 2001-02 2002-03 2003-04	Manno, SUPSI	Docente lavori di semestre e di diploma del ciclo di elettronica (3° anno).
2001-02 2002-03 2003-04	Manno, SUPSI	Docente laboratorio di elettronica di potenza del ciclo di elettronica (3° anno).
2001	Manno, SUPSI	Docente al seminario tecnico: "Design di circuiti analogici integrati semi-custom", classe E3A, sezione di elettrotecnica
2000-2001-2002-2003	Manno, SUPSI	Docente al seminario tecnico: "Le centrali fotovoltaiche", classe E3A, sezione di elettrotecnica
1995-1996-1997-1998	Manno, STS	Docente al seminario tecnico: "Le centrali fotovoltaiche", classe E2, elettrotecnica
11-2001	Roma (I)	Responsabile e relatore al corso ALTENER: "La tecnica fotovoltaica", 3 moduli (4 giorni).
3-1999 5-2000	Trevano, SUPSI Trevano, SUPSI	Relatore del corso di postformazione: "La tecnica fotovoltaica" (3 moduli)
1997	Como	Relatore alla conferenza TECHNÈ: "La tecnica fotovoltaica"
5-1995	Trevano, STS	Direttore e relatore del corso PACER: "Energia fotovoltaica: progettazione di impianti di produzione".
6-1993	Trevano, Scuola degli elettronici	Direttore e relatore del corso: "Introduzione alla tecnica fotovoltaica".
02-1992 10-1993	Trevano, STS Trevano, STS	Direttore e relatore del corso PACER: "Impianti fotovoltaici: basi teoriche e pratiche".
03-1994	Trevano, STS	Relatore al corso Energia solare e architettura: "Energia solare fotovoltaica"
03-1991 05-1988	Lugano, SPAI Trevano, STS	Relatore al corso ISPFP: "Energia elettrica di origine fotovoltaica" Relatore del corso: "La tecnica fotovoltaica"
Others		
♦ Premio Solare Svizzero 2001: categoria istituzioni (per il LEEE-TISO).		
♦ Premio Solare Svizzero 2005: categoria impianti (15.4kWp CPT-Trevano).		

♦ Primo premio miglior poster: National Tagung 2004.		
Publication in conference and journal:		
2012	Journal of Measurement Science and Technology (co-author)	Paper: MPVT FAST AND ACCURATE METHODS FOR THE PERFORMANCE TESTING OF HIGHLYEFFICIENT C-SI PV MODULES USING A 10 MS SINGLE-PULSE SOLAR SIMULATOR, Authors: A. Virtuani, G. Rigamonti, G. Friesen, D. Chianese, and P. Beljean
2011	Solar Energy Journal (SEJ) (co-author)	Paper in the Solar Energy Journal (SEJ): "A detailed analysis of gains and losses of a fully-integrated flat roof amorphous silicon photovoltaic plant", Authors: Lorenzo Fanni, Alessandro Virtuani, Domenico Chianese, Solar Energy 85 (2011) 2360–2373
2011	Hamburg (D)	26 th EUPVSEC <ol style="list-style-type: none"> 1. Energy Yield prediction of amorphous silicon PV modules using full time data series of irradiance and temperature for different geographical locations. 2. Results of the MPVT (Multi-Purpose PV module tester) project - a highly innovative and versatile solar simulator 3. Energy Yield measurements at SUPSI – Importance of data quality control and its influence on kWh/Wp inter-comparison
2010	Valencia (S)	25 th European Photovoltaic Solar Energy Conference (EPVSEC) <ol style="list-style-type: none"> 1. Comparison of outdoor and characterization of a CdTe PV Module 2. Seasonal power fluctuations of single Junction amorphous silicon modules – It is possible to distinguish between spectral variations and Staebler-Wronski effect? 3. Performance intercomparison of 13 different PV Modules based on indoor and outdoor tests. 4. The influence of measurement errors in spectral irradiance of flash solar simulators on the spectral mismatch factor of PV modules. 5. Evaluation of models for the internal capacitance of a PV module for the design and simulation of power converters. 6. The MPVT (Multi-Purpose PV module tester) project.
2010	Sorrento (I)	ASME-ATI-UIT 2010 Conference on Thermal and Environmental Issues in Energy Systems, OUTDOOR PV MODULE PERFORMANCE COMPARISON AT TWO DIFFERENT LOCATIONS Cristina Cornaro*,°, Davide Musella*, Domenico Chianese#, Gabi Friesen#, Sebastian Dittmann#
2009	Würzburg (D)	5 ^o User Forum Thin-Film Photovoltaics 2009: <ol style="list-style-type: none"> 1. "Investigation of annealing and degradation effects on a-Si modules in real operating conditions.
2009	Hamburg (D)	24 th European Photovoltaic Solar Energy Conference (EPVSEC) <ol style="list-style-type: none"> 1. "Analysis of annealing
2008	Roma (I)	CIS-IT Conference 2009: <ol style="list-style-type: none"> 1. "Prestazioni reali di differenti tecnologie di moduli"
2008	Valencia (S)	23 th European Photovoltaic Solar Energy Conference (EPVSEC) <ol style="list-style-type: none"> 1. "Analysis of annealing and degradation effects on a-Si PV modules." 2. "PV in historical centres" 3. "BIPV interactive tools for architects" 4. "SCERRI – an innovative PV waterproofing membrane on flat roof with VHF-technologies modules"

2007	Solar Energy Journal (SEJ) (co-author)	Paper in the Special Issues of Solar Energy Journal (SEJ): "Flat roof integration of a-Si modules laminated together with flexible polyolefines membranes", Solar Energy 81 (2007) 1144–1158
2007	Milano (I)	22 th European Photovoltaic Solar Energy Conference (EPVSEC) <ol style="list-style-type: none"> 1. "Energy rating measurements and predictions at ISAAC" 2. "Direct performance comparison of PV modules" 3. "Radio Frequencies Attenuation in BiPV modules" 4. "Losses and gains on thermally insulated horizontal a-Si PV modules"
2006	Hawaii (US)	4 th WCPEC (World Conference on Photovoltaic Energy Conversion) <ol style="list-style-type: none"> 1. Accuracy of energy prediction methodologies 2. Photovoltaic Performance Measurements in Europe: PV-Catapult Round Robin Tests. 3. The effects of solar cell capacitance on calibration accuracy when using a flash sun simulator. 4. Thermal isolated BIPV design matched to a-Si modules behaviours.
2006	Dresden (D)	21 th European Photovoltaic Solar Energy Conference (EPVSEC) <ol style="list-style-type: none"> 1. News on PV module testing at LEEE-TISO
2005	Barcellona (S)	20 th EPVSEC: <ol style="list-style-type: none"> 1. Flat roof integration of a-Si modules laminated together with flexibles polyolefines membranes.
2004	Parigi (F)	19 th EPVSEC: <ol style="list-style-type: none"> 1. Flat roof integration of a-Si triple-junction flexible modules. 2. PV-plant with CIS modules in St. moritz – 2 years operating results. 3. Energy rating prediction method– Matrix method – applied to CIS modules
2003	Osaka (J)	3 rd World Conference (18 th EPVSEC and 26 th IECEC): <ol style="list-style-type: none"> 1. Analysis of weathered c-Si PV modules 2. Energy Rating of PV Modules: Comparison of Methods and Approach. 3. Power and Energy Production of PV modules Statistical considerations of 10 years activity.
2002	Roma (I)	"PV in Europe" conference: <ol style="list-style-type: none"> 1. Power and energy production of PV modules. 2. Recovery of a 100 kW PV Power Plant. 3. Monitoring of the 16.8 kWp PV-plant with CIS modules in St. Moritz. 4. TISO 10 kW plant: The oldest grid-connected PV system in Europe.
2001	Staffelstein (D)	15. Symposium Photovoltaische Solarenergie (Deutschland): <ol style="list-style-type: none"> 1. „Energy production and power loss in PV Modules" 2. „Determination of the Mean Time Before Failure of a 20-Year old PV Plant" 3. "Sun Simulator of LEEE-TISO"

2001	München (D)	17 th EPVSEC: <ol style="list-style-type: none"> 1. "Energy rating of PV modules" 2. "Power and Energy Production of PV Modules" 3. "Study of a 20-year old PV plant (MTBF project)" 4. "PV Module Behaviour in Real Conditions: Emphasis on thin film modules".
2000	Neuchâtel (CH)	Simposio Nazionale Svizzero: <ol style="list-style-type: none"> 1. „Energieproduktion und Leistungsverminderung verschiedener PV Module“ 2. „Determination of the Mean Time Before Failure of a 20-Year old PV Plant“. 3. "Sun Simulator of LEEE-TISO"
2000	Glasgow (UK)	16 th EPVSEC: <ol style="list-style-type: none"> 1. "18 types of modules under the lens" 2. Behaviour of Triple Junction a-Si modules
1999	Lausanne (CH)	CISBAT: "Moduli PV: consigli "à bon entendeur""
1999	Staffelstein (D)	14. Symposium Photovoltaische Solarenergie (Deutschland): „Energieproduktion verschiedener PV Module“
1999	Zürich (CH)	Simposio Nazionale Svizzero: <ol style="list-style-type: none"> 1. "Leistungsverhalten von PV-Modulen – Erkenntnisse von der Markfront" 2. Energieproduktion verschiedener PV Module" 3. "Grid Connected PV-Plant with Triple-Junction a-Si Modules"
1999	Milano (I)	ALTENER II: "Fotovoltaico: perché e come?"
1998	Staffelstein (D)	13. Symposium Photovoltaische Solarenergie (Deutschland): <ol style="list-style-type: none"> 1. „Welche Lebensdauer erreicht eine PV-Anlage?“ 2. „Vergleich und Beurteilung der PV Module“
1998	Bern (CH)	Simposio Nazionale Svizzero: <ol style="list-style-type: none"> 1. "Vergleich und Beurteilung der PV Module" 2. „Wie lange wird meine PV Anlage dauern ?“
1998		EUROSUN '98: <ol style="list-style-type: none"> 1. "Comparison and behaviour of PV modules" 2. "How long will my PV plant last?"
1998	Vienna (A)	2 nd World PV Solar Energy Conference and 15 th EPVSEC: <ol style="list-style-type: none"> 1. "Comparison and behaviour of PV modules" 2. "How long will my PV plant last?" 3. "Variable Illumination Measurements (VIM) of amorphous silicon modules after ten years of operation"
1997	Lausanne (CH)	CISBAT: "Tests of reliability on crystalline and amorphous silicon modules"
1997	Barcellona (S)	14 th EPVSEC: <ol style="list-style-type: none"> 1. "15 year of experience: long-term behaviour of PV power plant" 2. "Tests of reliability on crystalline and amorphous silicon modules"
1996	Freiburg (D)	EUROSUN '96: "Tests of reliability on crystalline and amorphous silicon modules"
1995	Nizza (F)	13 th EPVSEC: "Tests of reliability on m-Si and a-Si modules and components"

1995	Fribourg (CH)	Simposio Nazionale Svizzero: 1. "Daten Bank PV Module" 2. "TISO: test of reliability on modules and PV components"
1994	Biel/Bienne (CH)	Simposio Nazionale Svizzero: "Le attività della scuola d'ingegneria di Lugano nel fotovoltaico (TISO)"
1994	Amsterdam (NL)	12 th EPVSEC: "Tests of reliability on m-Si and a-Si modules and on PV components".
1992	Montreux (CH)	11 th EPVSEC: "Long term behaviour of m-Si and a-Si modules in the medium size grid connected PV plant TISO".
1991	Boston (US)	26 th IECEC: "Behaviour of a-Si modules in a 4kW grid connected photovoltaic plant"
1991	Lisbona (P)	10 th EPVSEC: "4kW experimental a-Si PV power plant"
1990	Zürich	Photovoltaik-Nutzung: "TISO: installation photovoltaïque de 4kWp avec modules au silicium amorphe, raccordée au réseau"
1989	Freiburg (D)	9 th EPVSEC: "Utility Interconnected 4kW a-Si Power Plant"
1988	Firenze (I)	8 th European Photovoltaic Solar Energy Conference (EPVSEC): "4kWp Amorphous Silicon Power Plant"