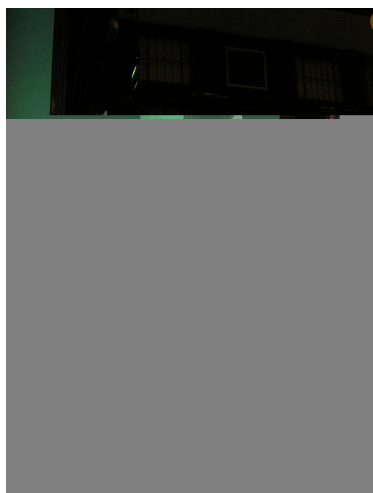




Personal Informations

First name/surname

LICCIARDI GIORGIO ANTONINO

Address

Via Levanzo, 35 - 00133 Roma – Italia

Telephone

06/2016601 Mobile: 328/7294051

E-mail

giorgio2@inwind.it -
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Nazionalità

Italian

Date and Place of birth

Frascati (RM), 18/02/1974

Desired employment

Geomatics – Earth Observation –GIS

Occupational field

Work experience

Dates

From May 2009

Occupation or position held

Research Associate

Main activities and responsibilities

Research and development in Satellite image processing using neural networks

Name and Address of employer

Università Degli Studi Di Roma Tor Vergata – Roma

Type of business or sector

Research and Development

Dates

May 2005 – May 2009

Occupation or position held

Cartographer – GIS expert – Senior Analyst

Main activities and responsibilities

Research and development in Satellite image processing using neural networks

Name and Address of employer

GEOK Srl- Università Degli Studi Di Roma Tor Vergata – Roma

Type of business or sector

Research and Development

Dates

January 2006 – September 2006

Occupation or position held

DBA part-time

Main activities and responsibilities

Oracle PL/SQL analyst

Name and Address of employer

DATACONS srl Rome

Type of business or sector

Database administration

Dates

November 2003 – November 2004

Occupation or position held

DBA

Main activities and responsibilities

SQL Analyst

Name and Address of employer

Lazio Public Health office Rome

Type of business or sector

Database development

Dates

December 1999 – September 2002

Occupation or position held

Geographic Database Administrator

Main activities and responsibilities

Administration of a geographic database applied on the traffic forecast on RAI TV

Name and Address of employer

Infonet Software – Rome

Type of business or sector

Database administration

Dates	September 2000 – September 2002
<i>Occupation or position held</i>	<i>Software testing</i>
<i>Main activities and responsibilities</i>	On field test of an airborne image transmission system
<i>Name and Address of employer</i>	Infonet Software – Rome
<i>Type of business or sector</i>	Software development

Education and training	
Dates	may 2005
<i>Title of qualification awarded</i>	Master Degree in Telecommunication Engineering
<i>Principal subject</i>	Earth Observation – Satellite images analysis
<i>Name of the Organisation providing education and training</i>	Università degli studi di Roma “Tor Vergata” – Rome.
Dates	2010
<i>Title of qualification awarded</i>	PhD student in Geoinformation
<i>Principal subject</i>	Earth Observation
<i>Name of the Organisation providing education and training</i>	Università degli studi di Roma “Tor Vergata” – Rome.

Personal skills and competences

<i>Mother tongue</i>	Italian						
<i>Other languages (self-assessment)</i>	<table><tr><td>Understanding</td><td>Speaking</td><td>Writing</td></tr><tr><td>Proficient user – C1</td><td>Proficient user – C1</td><td>Proficient user – C1</td></tr></table>	Understanding	Speaking	Writing	Proficient user – C1	Proficient user – C1	Proficient user – C1
Understanding	Speaking	Writing					
Proficient user – C1	Proficient user – C1	Proficient user – C1					
<i>Technical and Computer skills and competences</i>	Expert user of Remote Sensing and GIS software: ENVI, ESRI ArcGIS, Erdas Imagine, Mapinfo, Grass, Geoserver, Mapserver, Udig, Qgis.						
<i>Programming languages</i>	IDL (expert programmer), C/C++, SQL, Javascript, AJAX.						
<i>Other skills</i>	Good command of Neural Network algorithms						
<i>Social skills and competences</i>	Team spirit, good ability to multicultural environment, enjoy to compare my knowledge with other people						
<i>Organisational skills and competences</i>	Experience in project and team management.						
Driving licence	Category B						
Hobby and other skills	Swimming trainer						

Research Experience

ESA Category-1 Principal Investigator for Earth Observation data on the proposal 6343 "Testing algorithms for data mining and neural network classification using MERIS data".

ESA Category-1 Co-Investigator for Earth Observation Campaign on the proposal 6519 "Autoassociative neural networks for extraction of nonlinear principal components from hyperspectral data"

Investigated on the "Development of neural networks algorithms for the automatic features extraction from optical satellite imagery" on behalf of DISP - Dipartimento di Informatica Sistemi e Produzione, *Università Degli Studi Di Roma Tor Vergata*

Investigated on the research program "Sperimentazione e analisi di fattibilità, anche economic-finanziaria, di progetti e piattaforme per la competitività" on behalf of CEIS – Center for Economics and International Studies, *Università Degli Studi Di Roma Tor Vergata*

Developed and implemented a neural network algorithm for the automatic classification of LANDSAT TM/ETM+ imagery, available on the European Space Agency SSE portal.

Developed and implemented a change detection algorithm using neural network architectures applied on MODIS Terra/Aqua imagery, available on the European Space Agency SSE portal.

Implemented a web-GIS application for the research and download of new building and burned areas in the Province of Rome, available on the European Space Agency SSE portal.

Projects

GSE Land Information Service, ESA- UE GMES (Global Monitoring for Environment and Security). Europe level Urban Area Mapping

GMES Fast Track Service (FTS). ESA- UE GMES (Global Monitoring for Environment and Security). European Built-up Area and Sealing Levels.

GSE Forest Monitoring, ESA- UE GMES (Global Monitoring for Environment and Security). European Forest Inventory and Mapping.

List of Publications

Journals

- [1] Giorgio Licciardi, Fabio Pacifici, Devis Tuia, Saurabh Prasad, Terrance West, Ferdinando Giacco, Jordi Inglada, Emmanuel Christophe, Jocelyn Chanussot, Paolo Gamba, "Decision fusion for the classification of hyperspectral data: Outcome of the 2008 GRS-S Data Fusion Contest", [IEEE Transactions on Geoscience and Remote Sensing](#), *in press* [june 2009]

Conferences

- [1] E. Angiuli, F. Del Frate, G. Licciardi, C. Putignano "Un Algoritmo di Rete Neurale per la Produzione di Mappe di Sealing da Dati Satellitari LANDSAT", Proceedings of AUTEK 2005, Mantova, Italy, December 2005.

- [2] P. Sellitto, E. Angiuli, G. Licciardi and A. Minchella "Algoritmi di rete neurale per l'inversione del dato satellitare", Atti del Congresso Nazionale 2007 della Società Italiana di Fisica, Pisa, Italy.

- [3] C. Putignano, F. Del Frate, G. Licciardi, G. Schiavon, D. Solimini "Multi-temporal SAR images at X-band: scattering features and potential in land cover classification", Proceedings of IGARSS 2007, Barcelona, Spain.

- [4] E. Angiuli, F. Del Frate, A. Della Vecchia, M. Lavalley, D. Solimini, and G. Licciardi "Neural Inversion Algorithm for Forest Parameter Estimation: Test by L-band Simulated Polarimetric Interferometric Data", Proceedings of IGARSS 2007, Barcelona, Spain.

- [5] C. Putignano, F. Del Frate, G. Licciardi, D. Iasillo, G. Sanchez, R. Vallejo, E. Volden and T. Hausler "Forest monitoring for climate change", Proceedings of 27th EARSeL June 2007.

- [6] D. Iasillo, C Putignano, F. Del Frate, G. Licciardi, G. Sanchez Peña, R. Vallejo, E. Volden, T. Hausler, "A Neural Network approach to forestry mapping in GSE Forest, the Spanish case", Forest-Sat 2007, Montpellier France.

- [7] A. Burini, C. Putignano, F. Del Frate, G. Licciardi, D. Iasillo, G. Signorile, "Mappe tematiche da dati satellitari: integrazione tra metodologie neurali e ad oggetti", Atti 11a Conferenza Nazionale ASITA, Centro Congressi Lingotto, Torino 6 – 9 novembre 2007.

- [8] Fabio Del Frate, Michele Lazzarini, Giorgio Licciardi, Cosimo Putignano, Chiara Pratola, "Una procedura completamente automatica per la classificazione di immagini satellitari", XIV Riunione Annuale CeTeM / V Workshop AIT / XIV Giornata MECSA sull'Ingegneria delle Microonde, Roma, 23-24 Ottobre 2008.

- [9] Giorgio Licciardi, Cosimo Putignano, Fabio Del Frate, Chiara Pratola, "Tasseled Cap Transformation and Neural Networks for the Design of an Optimum Image Classification Algorithm Using Multispectral", International Geoscience and Remote Sensing Symposium 2008, Boston, USA, July 6-11, 2008

- [10] Alessandro Burini, Cosimo Putignano, Fabio Del Frate, Giorgio Licciardi, Giovanni Schiavon, Domenico Solimini, Chiara Pratola, "TerraSAR-X/SPOT-5 fused images for supervised land cover classification", International Geoscience and Remote Sensing Symposium 2008, Boston, USA, July 6-11, 2008

[11] Cosimo Putignano, Domenico Solimini, Alessandro Burini, Fabio Del Frate, Giovanni Schiavon, Giorgio Licciardi, Lazzarini Michele, Paolo Manunta, Francesco De Biasi, "TERRASAR-X Imaging for Unsupervised Land Cover Classification and Fire Mapping" IGARSS 2008, Boston, USA, July 6-11, 2008.

[12] G. Licciardi, F. Del Frate, R. Duca, "Feature Reduction Of Hyperspectral Data Using Autoassociative Neural Networks Algorithms" submitted to IGARSS 2009 Cape Town, South Africa, 13-17 July 2009

[13] G. Licciardi, C. Pratola, F. Del Frate, "Completely Automatic Classification Of Satellite Multi-Spectral Imagery For The Production Of Land Cover Maps", submitted to IGARSS 2009 Cape Town, South Africa, 13-17 July 2009

[14] F. Del Frate , G. Licciardi, R. Duca , "Autoassociative Neural Networks For Features Reduction Of Hyperspectral Sata", submitted to First IEEE GRSS Workshop on Hyperspectral Image and Signal Processing WHISPERS 2009 Grenoble, France, 26-28 August 2009

[15] F. Del Frate, G. Licciardi, F. Pacifici, C. Pratola, D. Solimini, "Pulse Coupled Neural Networks for Automatic Features Extraction From COSMO-SKYMED and TERRASAR-X Imagery", submitted to IGARSS 2009 Cape Town, South Africa, 13-17 July 2009

[16] F. Del Frate, G. Licciardi, R. Duca, "Use of Neural Networks for the production of land cover maps from hyperspectral data" Workshop "Verso le Applicazioni della missione iperspettrale nazionale PRISMA", 31 marzo/1°aprile 2009 ASI - Centro di Geodesia Spaziale "G. Colombo", Matera

Awards

First prize of the 2008 IEEE Geoscience and Remote Sensing Data Fusion Contest.

Travel grants to attend and present at IGARSS 2009 Cape Town, South Africa, 13-17 July 2009

Membership

2007–present Student Member, Institute of Electrical and Electronics Engineers (IEEE)

Reviewer of IEEE GEOSCIENCE AND REMOTE SENSING LETTERS

Giorgio Antonino Licciardi