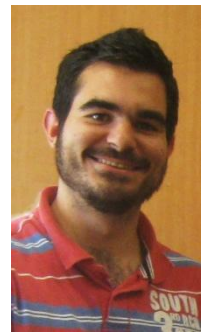# Fanis Moschas (resume)

## Personal Details:
Date/Place of Birth:   22 July 1985, Athens, Greece
Nationality:                Greek
Email:                        fmoschas@upatras.gr    theofmoschas@gmail.com

## Education:
Department of Civil Engineering, University of Patras, Greece

Phd Candidate (since January 2010, degree expected at the end of 2013), Research domain: 50-100Hz GNSS and applications in vibration monitoring

Msc (Sept 2008-Oct 2009) Thesis title: Assessment of GPS noise characteristics from measurements of collocated GPS receivers (in Greek)

Diploma in Civil Engineering (September 2003-June 2008, 10 semesters, thesis title:  Monitoring the oscillations of a steel pedestrian bridge with GPS (in Greek).  Grade 7.59/10, among top 3% of 1556 students, 3rd in graduation among 9 of 193 students who graduated in 10 semesters (minimum duration of studies)

## Teaching experience
Teaching Assistance in three courses related to Geodesy (Geodetic Measurements, Geodesy and Geodetic Applications) at the Department of Civil Engineering, University of Patras, Greece (October 2008-June 2013). Supervision of field projects of >150 2nd grade and 5th grade students each semester, assistance in supervision of Diploma theses and Master's theses.

## Field experience
Several GPS field campaigns, in cooperation with Gatech and UNAVCO (Santorini volcano and 2008 Patras earthquake Greece) and with Ecole Normale Superieure Paris (Western Greece).  Activity including campaign planning, measurements, instrument deployment and permanent station maintenance (station communications, instrument replacement and calibration).

## Skills
•Knowledge of signal processing and programming software (Fortran, Matlab, Microcal Origin, Microsoft Excell)
•Knowledge of GPS processing Software (Topcon Tools, Leica Geo Office Combined, Justin Javad, GAMIT/GLOBK, TRACK)
•Knowledge of design and mapping software (Autodesk AutoCAD, Adobe Photoshop, GMT)
•Working ability in LINUX OS

## Foreign Languages
English (Excellent knowledge, Cambridge Proficiency, 2000)
Spanish (Working and communication ability)

## Interests/activities
Running, cycling, basketball, trekking, painting

## Selected Publications
[1] **Moschas, F.**, and Stiros, S. C. (in press). "Three-dimensional dynamic deflections and natural frequencies of a stiff footbridge based on measurements of collocated sensors." *Structural Control and Health Monitoring*.
 [2] **Moschas, F.**, and Stiros, S. (in press) "Dynamic multipath in structural bridge monitoring: an experimental approach." *GPS Solutions*.
[3] **Moschas, F.**, Psimoulis, P., and Stiros, S. (in press). "GPS RTS data fusion to overcome signal deficiencies in certain bridge dynamic monitoring projects." *Smart Structures and Systems*
[4] **Moschas, F.**, and Stiros, S. (2013). "Noise characteristics of high-frequency, short-duration GPS records from analysis of identical, collocated instruments." *Measurement*, 46(4), 1488–1506.
[5] Stiros, S., **Moschas, F.**, Feng, L., and Newman, A. (2013). "Long-term versus short-term deformation of the meizoseismal area of the 2008 Achaia–Elia (MW 6.4) earthquake in NW Peloponnese, Greece: Evidence from historical triangulation and morphotectonic data." *Tectonophysics*, 592, 150–158.
[6] **Moschas, F.**, and Stiros, S. (2013). "Phase effect in time-stamped accelerometer measurements – an experimental approach." *International Journal of Metrology and Quality Engineering*, 3(3), 161–167.
[7] Newman, A. V., Stiros, S., Feng, L., Psimoulis, P., **Moschas, F.**, Saltogianni, V., Jiang, Y., Papazachos, C., Panagiotopoulos, D., Karagianni, E., and Vamvakaris, D. (2012). "Recent geodetic unrest at Santorini Caldera, Greece." *Geophysical Research Letters*, 39(6), L06309.
[8] Stiros, S. C., and **Moschas, F.** (2012). "Submerged notches, coastal changes and tectonics in the Rijeka area, NW Croatia." *Marine Geology*, 329–331(0), 103–112.
[9] **Moschas, F.**, and Stiros, S. (2011). "Measurement of the dynamic displacements and of the modal frequencies of a short-span pedestrian bridge using GPS and an accelerometer." *Engineering Structures*, 33(1), 10–17.