

Curriculum Vitae

I. Personal Data



Name: **Danai Skournetou**

Date of Birth: June 22, 1982

Place of Birth: Athens, Greece

Citizenship: Greek

Home Address: Näyttelijäkatu 22, D 5, 33720 Tampere, Finland

Languages spoken: Greek (native), English (excellent), Finnish (good), German (good)

personal web-page: <http://www.cs.tut.fi/~skourned/>

e-mail: danai.skournetou@bgator.com

II. Work Experience

Time	Position	Institution
01/02/2012-	Head of R&D	bgator Ltd.
1/01/2012-30/06/2012	Research Fellow	Dept. of Communications Engineering, TUT, FINLAND
16/10/2007-31/12/2011	Researcher and Teaching assistant	Dept. of Communications Engineering, TUT, FINLAND
01/06/2006-15/10/2007	Researcher Assistant	Dept. of Communications Engineering, TUT, FINLAND

III. Academic Degrees

Year	Degree	University	Subject
spring 2012 (planned)	Master of Science (M.Sc.)	University of Jyväskylä (JyU), FINLAND	Economics and Business Administration
2011	Doctor of Science in Technology (Dr. Tech.) “With Distinction”	Tampere University of Technology (TUT), FINLAND	Communications Engineering
2007	Master of Science (M.Sc.) in Information Technology “With Distinction” (Grade: 5/5)	Tampere University of Technology (TUT), FINLAND	Communications Engineering (major), Signal Processing (minor)
2005	Bachelor of Science (B.Sc.; 4 year) “Very Good” (Grade: 7.5/10)	Athens National and Kapodistrian University, GREECE	Informatics and Telecommunications

IV. Additional Academic/Work Experience

Time	Position	Institution
11/2010-01/2011	Visiting researcher	Faculty of Technology, Policy and Management, Delft University of Technology, The Netherlands
01/09/2010- 11/09/2010	Participant	Summer school in Global Navigation Satellite Systems, organized by European Space Agency (ESA), Denmark
02/2008-08/2008	Visiting researcher	Faculty of Electrical Engineering, University of California, Los Angeles (UCLA), U.S.A.
01/2006-08/2006	Visiting student	Tampere University of Technology, Finland
01/2005-06/2006	Exchange student	University of Jyväskylä, Finland

V. Teaching

- Teaching assistant in Basic Course on Wireless Communications (Autumn 2007-2011)
- Teaching assistant in Spread Spectrum Techniques (Spring 2010, 2011)
- Teaching assistant in Digital Transmission (Spring 2009, 2011, 2012)

VI. Managerial and other types of Experience

- Member of the Management Group appointed for the International Master's Program in Information Technology (2008-2010)
- Active involvement in preparation of EU and national project proposals
- Involvement in various GNSS-related projects, most of them involving industrial partners:
 - "Advanced Techniques for Personal Navigation (ATENA)" 2006-2007, funded by the Finnish Funding Agency for Technology and Innovation (TEKES).
 - "Future GNSS Applications and Techniques (FUGAT)", 2008-2009, funded by the Finnish Funding Agency for Technology and Innovation (TEKES).
 - "Digital Signal Processing Algorithms for Indoor Positioning Systems", 2008 - 2011, funded by Academy of Finland.
 - "Galileo Ready Advanced Mass Market Receiver (GRAMMAR)", 2009-2011, funded by EU-FP7.

VII. TPC Memberships

- First International Conference on Advances in Satellite and Space Communications (SPACOMM 2009 - 2012)
- 3rd IEEE Workshop on Broadband Wireless Access (BWA 2008)

VIII. Received Grants/Scholarships/Awards

- 1st prize in the competition organized by ESA Summer School on GNSS (2010)
- Ulla Tuomisen scholarship (2010)
- Tekniikan edistämissäätiön-TES scholarship (2010)
- Tampere Doctoral Program in Information Science and Engineering grant (2008-2011)
- NOKIA Foundation scholarship (2007)
- TUT's scholarship for graduating with distinction (2007)

IX. Publications

Journal/Magazine articles:

1. D. Skournetou, A. H. Sayed and E. S. Lohan, “*Cramer Rao Bounds for multipath channel estimation in GNSS receivers*”, International Journal of Navigation and Observation, vol. 2011, Article ID 356975, 15 pages, 2011.
2. D. Skournetou and E. S. Lohan, “*Ionosphere-Corrected Range Estimation in Dual Frequency GNSS Receivers*”, IET Radar, Sonar and Navigation, Vol. 5, Issue 3, p.215–224, March 2011.
3. E. S. Lohan and D. Skournetou, “*LCRE: A new method for estimating the Carrier-to-Noise-Ratio of GNSS signals*”, in September/October issue of Inside GNSS magazine, 2010.
4. M. De Reuver, D. Skournetou and E. S. Lohan, “*Impact of Galileo Commercial Service on Location Based Service Providers*”, submitted in the Elsevier Journal in Telecommunications Policy.

Conference papers:

1. M. De Reuver, D. Skournetou and E. S. Lohan, "Designing roadmaps for Galileo Commercial Service", submitted in the ICL-GNSS conference, 2012.
2. D. Skournetou, M. De Reuver and E. S. Lohan, “*Has the Time to Commercialize Satellite Navigation Signals Come? Business model viability of a Galileo Commercial Service platform*”, in Proc. of Business Models for Mobile Platforms (BMMP), Berlin, Germany, 4-7 October 2011.
3. D. Skournetou and E. S. Lohan, “*Ionospheric Delay Corrections in Multi-Frequency Receivers: Are Three Frequencies Better than Two?*”, in IEEE Proc. of International Conference on Localization and GNSS (ICL-GNSS), pp.181-186, Tampere, Finland, June, 2011.
4. F. Nikayin, D. Skournetou and M. De Reuver, “*Establishing a Common Service Platform for Smart Living: Challenges and a Research Agenda*”, in Proc. of International Conference on Smart Homes and Health Telematics (ICOST), Canada, 2011.
5. D. Skournetou and E. S. Lohan, “*Comparison of single and dual frequency GNSS receivers in the presence of ionospheric and multipath errors*”, in Proc. of the International ICST Conference on Personal Satellite Services (PSATS’2011), Malaga, Spain, 2011.
6. D. Skournetou and E. S. Lohan, “*Pulse shaping investigation for the applicability of future GNSS signals in indoor environments*”, In proc. of Indoor Positioning & Indoor Navigation (IPIN), pp.1-7, Zurich, Switzerland, 15-17 Sept. 2010.
7. D. Skournetou, A. H. Sayed and E. S. Lohan, “*A deconvolution algorithm for estimating jointly the LOS code delay and carrier phase of GNSS signals*”, In proc. of European Navigation Conference in GNSS (ENC-GNSS ‘09), Naples, Italy, 2009.
8. D. Skournetou and E. S. Lohan, “*Discontinuity-based code delay estimator for GNSS signals*”, In Proc. of 4th Advanced Satellite Mobile Systems (ASMS) conference, pp. 213-222, Bologna, Italy, August, 2008.

9. D. Skournetou and E. S. Lohan, "Indoor Location Awareness based on the Non-Coherent Correlation Function for GNSS Signals", In: Proc. FINSIG'07, August 30, 6 p., Oulu, Finland, 2007.
10. D. Skournetou and E. S. Lohan, "Non-coherent multiple gate delay structures and their tracking performance with Galileo signals", In: Proc. 11th European GNSS Conference (ENC-GNSS'07), pp. 247-258, Geneva, Switzerland, May/ June, 2007.

X. Academic theses

1. Skournetou D. (2012) *Aspects on the Commercialization of Satellite Navigation Signals*, M.Sc. Thesis, Jyväskylä University, Finland (work in progress).
2. Skournetou D. (2011) *Mitigation of Dominant Channel Propagation Effects in GNSS-based Positioning*, Doctoral Thesis, Tampere University of Technology, Finland.
3. Skournetou D. (2007) *Delay Estimators for Tracking Low CNR GNSS Signals*, M.Sc. Thesis, Tampere University of Technology, Finland.
4. Skournetou D. (2005) *Factors Hindering User Adoption of Location-Based Services: A Survey Study*, B.Sc. Thesis, University of Athens (in Greek).

XI. Research Interests

- Technology management
- Business models, Smart home, Mobile Platforms
- Location-Based Services
- Code and carrier tracking algorithms for Galileo and GPS signals
- Indoor positioning
- Range estimation, Ionospheric effects
- CNR estimation
- Positioning in cognitive radio networks

XII. Programming Skills

- Matlab
- Familiar with C, PHP and C++

XIII. Hobbies

- Ballroom dancing
- Literature
- Traveling
- Cooking

Last updated February 10, 2012