Aymen EL GHOUL

TELECOMMUNICATIONS ENGINEER

INRIA (ARIANA)
2004 route des lucioles, B.P. 93,
06902 Sophia Antipolis Cedex, France
Mobile phone: +33 (0)6 61 86 72 40
Email: aelghoul@sophia.inria.fr
Website: http://www-sop.inria.fr/members/Aymen.El_Ghoul/

EDUCATION

2007 - Present	Ph.D. in Computer Science, defence expected in September 2010 University of Nice Sophia Antipolis (UNSA). ARIANA / INRIA, I3S (Sophia Antipolis, France). Image and signal processing major.
2005 - 2007	Masters Research Masters at Ecole Supérieure des Communications de Tunis (Sup'Com). Multimedia Content major.
2002 - 2005	Degree in telecommunications engineering Ecole Supérieure des Communications de Tunis (Sup'Com). Audiovisual and Multimedia major.
2000 - 2002	Preparatory diploma Institut Supérieur aux études d'ingénieur de Tunis (IPEIT) Mathematics–Physics major.
2000	Baccalaureate Mathematic major.

COURSES TAKEN

Audiovisual and Multimedia
Signal theory and processing, geographic information systems, digital transmission, image processing and analysis, speech processing and analysis, remote sensing, image indexing and retrieval, image database management, image segmentation and classification.

Telecommunications and computer science networks
Local network, internet, ATM, mobile networks (GSM, GPRS, UMTS), GPS, telecommunication system architecture.

RESEARCH POSITION

04/2007 - 09/2007	Internship at INRIA-Sophia Antipolis ARIANA / INRIA, I3S (Sophia Antipolis, France) Goal: To adapt higher-order active contour models to the case of very high resolution remote sensing images. Funded by European Union Network of Excellence MUSCLE. www.muscle-noe.org
09/2006 - 01/2007	Internship at INRIA-Sophia Antipolis ARIANA / INRIA, I3S (Sophia Antipolis, France) Goal: Stability analysis of higher order active contours model for road network extraction and tree detection. Funded by INRIA-STIC TUNISIA.

01/2006 - 07/2006 — Engineer-researcher post in URISA research group
URISA / Sup'Com (Tunis, Tunisia)
Goal: Conception and development of a Content Based Remote Sensing Image Retrieval platform using object-oriented programming (C# language).

05/2005 - 06/2005 — Internship at INRIA-Sophia Antipolis
ARIANA / INRIA, I3S (Sophia Antipolis, France):
Goal: To Aanalyze the resolution dependence of adaptive wavelet packet coefficients for the classification of remote sensing images. Funded by INRIA-STIC TUNISIA.

07/2004 - 08/2004 — Engineering internship at CERT
CERT (Tunis, Tunisia): Centre des études et de recherche en télécommunications.
Goal: MPEG-4 characterization to optimize resource occupation in mobile networks.

07/2003 - 08/2003 — Professional internship at Tunisie Telecom
Tunisie Telecom (Nabeul, Tunisia)
Goal: Gain familiarity with professional environment working in telephonic network.

SKILLS

Computer science techniques
Programming language: C, C++, C#, Java.
Development tools: Borland C++ Builder, Matlab, Microsoft Visual .Net.
Database: SQL, Mysql, php.

Languages
Arabic (mother tongue), English (fluent), French (fluent).

ACTIVITIES

09/2007 - 12/2008 — Webmaster of the website of the research group ARIANA (INRIA, I3S).

Reviewer for MatCom journal.

SOFTWARE DEPOSIT

03/2010 — PhaseFlow v1.0: Matlab code for river network extraction from remote sensing images. It implements the phase field higher-order active contour model of directed networks.

04/2009 — PhaseBar v1.0: Matlab code for road network extraction from remote sensing images. It implements the phase field higher-order active contour model of undirected networks.

REFERENCES

References are available on request.