

## CURRICULUM VITAE

Valentin BOROZAN

Date and Place of Birth : December 28, 1980, Moldova  
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### Academic Degrees

2007 - 2011 **PhD at University PARIS-SUD 11**  
Research Topic: *Algorithmic study on edge-colored graphs*  
Supervisor: Prof. Yannis Manoussakis

2006 - 2007 **Master of Science**, Université de la Méditerranée (Aix-Marseille II)  
Topic : *Relaxation of two dimensional groups in linear integer programming* Supervised by Prof. Gérard Cornuéjols

2003 - 2004 **Master of Engineering**,  
Université de la Méditerranée (Aix-Marseille II)

### Previous Employment

**current** ENSIIE -École Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise  
**Temporary Research and Teaching Assistant (ATER)**

2010 - 2011 *IFIPS* - University Paris-Sud 11, Orsay, France  
**Temporary Research and Teaching Assistant (demi ATER)**

2007 - 2010 *IUT d'Orsay* - University Paris-Sud 11, Orsay, France  
**Teaching Assistant (moniteur)**

2006 Université de la Méditerranée (Aix-Marseille II), Marseille, France  
**Tutoring - Free computer service**

2005 « PrimaSys » Company, Paris, France  
**Project manager and analyst programmer**

2004                                      NGO " Independent Centre of Journalism", Chisinau, Moldova  
**IT Manager**

2003                                      Commercial Bank « Victoria Bank », Chisinau, Moldavie  
**Internship**

### **Main Research Interests**

Graph Theory, Combinatorics, Combinatorial optimization and other fields of discrete mathematics; Design, analysis of algorithms;

### **Publications**

- **Proper Hamiltonian Paths in Edge-Colored Multigraphs**, work in progress  
R. Agueda, V. Borozan, M. Groshaus, Y. Manoussakis, G. Mendy and L. Montero
- **Maximum Colored Trees in Edge-Colored Graphs**, submitted in *Discrete Mathematics*  
V. Borozan, W. Fernandez de la Vega, Y. Manoussakis, C. A. Martinhon, R. Muthu and R. Saad
- **Sufficient conditions for the existence of spanning colored trees in edge-colored graphs**, to appear in *Discrete Mathematics*  
Raquel Agueda, V. Borozan, Y. Manoussakis, G. Mendy and R. Muthu
- **Proper connection of graphs**, to appear in *Discrete Mathematics*  
V. Borozan, S. Fujita, A. Gerek, C. Magnant, Y. Manoussakis, L. Montero and Z. Tuza,
- **Minimal Valid Inequalities for Integer Constraints.**  
*Mathematics of Operations Research* 34 (2009) 538-546, V. Borozan, G. Cornuejols,

### **Conference Organizing Committees**

*8th French Combinatorial Conference [8FCC]*. University Paris Sud, Orsay, France

### **Conferences, Workshops and Summer Schools**

June – July 2010                      **8th French Combinatorial Conference [8FCC]**, University Paris-Sud 11,  
Orsay, France

- *"Sufficient conditions for the existence of spanning colored trees in edge-colored graphs"* Raquel Agueda, Valentin Borozan, Yannis Manoussakis, Gervais Mendy and Rahul Muthu

- “*Proper connection of graphs*” Valentin Borozan,  
Yannis Manoussakis, Leandro Montero and Zsolt Tuza

June 2009

**8th Cologne-Twente Workshop on Graphs and Combinatorial Optimization**, Ecole Polytechnique and CNAM, Paris, France

- “*Colored Trees in Edge – Colored Graphs*”, V. Borozan,  
Y. Manoussakis, R. Muthu, C. Martinhon, A. Abouelaoualim and  
R. SAAD

September 2008

International School On Mathematics "GUIDO ESTAMPACCHIA", Graph Theory, Algorithms and Applications, Centre "Ettore Majorana" for Scientific Culture [Erice](#), Italy

## Teaching Experience

2007 – 2008	Network Systems : 64 hours – <i>IUT d'Orsay</i> - University Paris-Sud 11
2008 – 2009	C++ and Algorithms : 64 hours – <i>IUT d'Orsay</i> - University Paris-Sud 11
2009 – 2010	Network Systems : 64 hours – <i>IUT d'Orsay</i> - University Paris-Sud 11
2010 – 2011	Algorithms C : 44 hours – <i>IFIPS</i> - University Paris-Sud 11 Algorithms : 21 hours C++ : 10 hours

## Languages

Romanian, Russian	Native languages
French	Expert
English	Advanced

## Technical Skills

Programming Languages	C/C++, JAVA 1.4, PHP, JavaScript, HTML and WAP
DBGS	Oracle, MySQL, Postgres
Web environment	Apache, ISS
Software	Macromedia Dreamweaver 8, J Builder, C + + Builder 5, Rational Rose
Operating Systems	UNIX, Windows 2003 server/XP/Vista/W7