

## Grégory Bonnet

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### EDUCATION & PROFESSIONAL EXPERIENCES

#### DIPLOMAS

- **1998:** A level (Baccalauréat) in Literature and Drama
- **2003:** Bachelor degree in Computer Sciences, focus on Mathematics and Social Sciences
- **2005:** Master degree in Computer Sciences, focus on Artificial Intelligence
- **2008:** PhD degree in Artificial Intelligence and Embedded Systems, focus on Multi-Agent Systems

#### POSITIONS

- **2009 – 2011:** Post-doctoral position in the Troyes University of Technology (ICD, ERA team)
- **2011 – Today:** Assistant Professor in the University of Caen Normandy (GREYC, MAD team)

### RESEARCH ACTIVITIES

#### **2014 – 2017: Ethics and autonomous agents**

Project: ANR ETHICAA

Consortium: Ardans, Armines-Fayol, French Aerospace Lab, Greyc, LIP6, Télécom Management

Keywords: machine ethics, multi-agent systems, privacy, robotics.

#### **2009 – 2011: Multi-agent techniques for autonomous network**

Team: Autonomous Network Environment (UTT)

Advisor: Dominique Gaïti and Guillaume Doyen

Keywords: aggregation protocol, multi-agent learning, peer-to-peer networks, user behavior modeling.

#### **2005 – 2008: Cooperation within a satellite constellation**

Team: Decision and Control (French Aerospace Lab)

Advisor: Catherine Tessier

Keywords: coalition formation, coordination and teamwork, multi-agent systems, satellite constellations.

#### **2005 – 2006: A formal model to reason on coalition structures**

Team: Argumentation, Reasoning, Decision, Uncertainty and Learning (IRIT)

Advisor: Leila Amgoud

Keywords: argumentation reasoning, coalition formation, multi-agent systems.

### TEACHING ACTIVITIES

#### **2011 – Today: University of Caen Normandy**

- Artificial Intelligence
- Multi-Agent Systems
- Network Basics
- Software Engineering
- Web Technologies

#### **2009 – 2010: Troyes University of Technology**

- Decentralized Techniques for Network Security
- Knowledge Representation and Reasoning
- Multi-Agent Systems
- Network Services

**2007 – 2008: National School of Civil Aviation**

- Non-linear optimization

**2006 – 2008: ISAE (Institut Supérieur de l'Aéronautique et de l'Espace)**

- Algorithmics and C programming
- Matlab

<b>MAJOR PUBLICATIONS</b>
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**ARTICLES IN INTERNATIONAL JOURNALS**

**A Survey and Performance Evaluation of Decentralized Aggregation Schemes for Autonomic Management**

Rafik Makhouloufi, Guillaume Doyen, Grégory Bonnet and Dominique Gaïti  
*International Journal of Network Management*  
Vol. 24(6), p. 469–498, 2014

**A Bayesian Approach for User Aware Peer-to-Peer Video Streaming Systems**

Ihsan Ullah, Guillaume Doyen, Grégory Bonnet and Dominique Gaïti  
*Signal Processing: Image Communication Special issue on Advances in Video Streaming for P2P Networks*  
Vol. 27(5), p. 438–456, 2012

**A Survey and Synthesis of User Behavior Measurements in Video Streaming Systems**

Ihsan Ullah, Guillaume Doyen, Grégory Bonnet and Dominique Gaïti  
*IEEE Communications Surveys and Tutorials*  
Vol. 14(3), p. 734–749, 2012

**Incremental Adaptive Organization for a Satellite Constellation**

Grégory Bonnet and Catherine Tessier  
*Lecture Notes on Artificial Intelligence: Special Issue on Organized Adaptation in Multi-Agent Systems*  
Vol. 5368 (A. Artikis, J. Pitt, K. Stathis, G. Vouros Editors), p. 108–125, 2009

**PUBLICATIONS IN INTERNATIONAL CONFERENCES**

**Ethical Judgement of Agents' Behaviors in Multi-Agent Systems**

Nicolas Cointe, Grégory Bonnet and Olivier Boissier  
*15th International Conference on Autonomous Agents and Multiagent Systems (to appear; 2016)*

**Using KL Divergence for Credibility Assessment**

Thibaut Vallée and Grégory Bonnet  
*14th International Conference on Autonomous Agents and Multiagent Systems (p. 1797–1798; 2015)*

**Towards a Framework to Deal with Ethical Conflicts in Autonomous Agents and Multi-Agent Systems**

The ETHICAA Team  
*12th International Conference on Computer Ethics and Philosophical Enquiry (p. 1–10; 2014)*

**Multi-Armed Bandit Policies for Reputation Systems**

Thibaut Vallée, Grégory Bonnet and François Bourdon  
*13th International Conference on Practical Applications of Agents and Multi-Agent Systems (p. 279–290; 2014)*

**A Study of Sybil Manipulations on Hedonic Games**

Thibaut Vallée, Grégory Bonnet, Bruno Zanuttini and François Bourdon  
*13th International Conference on Autonomous Agents and Multiagent Systems (p. 21–28; 2014)*

**A Protocol Based on a Game-Theoretic Dilemma to Prevent Malicious Coalitions in Reputation Systems**

Grégory Bonnet  
*20th European Conference on Artificial Intelligence (p. 187–191; 2012)*

### **A Semi-Markovian Individual Model of Users for P2P Video Streaming Applications**

Grégory Bonnet, Ihsan Ullah, Guillaume Doyen, Lionel Fillatre, Dominique Gaïti and Igor Nikiforov  
*4<sup>th</sup> International Conference on New Technologies, Mobility and Security (p. 1–5; 2011)*

### **Modeling User Behavior in P2P Live Video Streaming System through a Bayesian Network**

Ihsan Ullah, Grégory Bonnet, Guillaume Doyen and Dominique Gaïti  
*4<sup>th</sup> International Conference on Autonomous Infrastructure, Management and Security (p. 2–13; 2010)*

### **Towards a P2P-based Deployment of Network Management Information**

Rafik Makhloufi, Grégory Bonnet, Guillaume Doyen and Dominique Gaïti  
*4<sup>th</sup> International Conference on Autonomous Infrastructure, Management and Security (p. 26–37; 2010)*

### **Collaboration Among a Satellite Swarm**

Grégory Bonnet and Catherine Tessier  
*6<sup>th</sup> International Joint Conference on Autonomous Agents and Multi-Agent Systems (p. 287–294; 2007)*

## **PERFORMING ARTS EXPERIENCE (DRAMA)**

### **2015**

- *Far-Ouest*, stage director Valéry Dekowski (Amavada)
- *Entre les aigles et les requins*, stage director Yohann Alex (Amavada)
- Writing workshop *Les Hippophages* with Nicolas Sorel (Amavada)

### **2014**

- *Le Chant du Chien (Zwy Milshtein)*, adaptation, stage director Valéry Dekowski (Amavada)
- *Radio Manson – Ordinarium Obsessio (Hervé Bulteau and Kévin Lambert)*
- *Dans mon oeil le soleil*, stage director Yohann Alex (Amavada)
- Writing workshop *Les Hippophages* with Nicolas Sorel (Amavada)

### **2013**

- *Le Congrès des Salamandres (Karel Čapek)*, adaptation, stage director Valéry Dekowski (Amavada)
- *L'Enfer sourd à mes pieds*, stage director Yohann Alex (Amavada)
- Writing workshop *Les Hippophages* with Nicolas Sorel (Amavada)

### **2012**

- *Opération Cobao*, stage director Valéry Dekowski (Amavada)
- *El Chronocab*, stage director Yohann Alex (Amavada)
- *Wolfgang A.*, stage directors Didier Horry, Véronique Leclerc and Valéry Dekowski (Zenith Caen)

### **2007**

- *L'Arbre*, short film direction and acting with Thomas Aymard (Arsène Lupin)

### **2004**

- *L'Azote (René de Obaldia)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)
- *Ronde de Nuit*, personal creation with Théâtre de la Balise
- *Impro'Fiesta*, improvisation festival organization (Théâtre de la Balise)
- Drama teacher for Théâtre de la Balise

### **2003**

- *Oncle Vania (Anton Tchekhov)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)
- *Moustaches du Phoques (Jörn Riel)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)

### **2002**

- *Moustaches du Phoques (Jörn Riel)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)
- *Conte d'un Plume Orientale*, stage director Thomas Aymard (Arsène Lupin)
- Drama teacher for Arsène Lupin

### **2001**

- *Les Nonnes (Edouardo Mannet)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)
- *Conte d'une Plume Orientale*, personal creation with Arsène Lupin
- Drama teacher and improvisation matches organizer for Arsène Lupin

### **2000**

- *Volpone (Jules Romain)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)

### **1999**

- *Lorenzaccio* (Alfred de Musset), stage director Caroline Mazaud (Arsène Lupin)
- *Mais n'te promène donc pas toute nue !* (Feydeau), stage director Thomas Aymard (Arsène Lupin)
- Excerpts from Xavier Durringer, Jean-Marie Piemme and Raymond Queneau (Nicole Velche)
- *Le Zouave* (Claude Rich), personal creation with the support of Michel Bruzat (Théâtre de la Passerelle)
- *De l'influence du soleil sur la faune locale*, short film (Arsène Lupin)

#### 1998

- *La Nuit des Rois* (Shakespeare) and *Ubu Roi* (Alfred Jarry), stage director Paul Golub (Volcan Bleu)
- Assistant director on *Le Dernier Jour d'un Condamné* (Victor Hugo), stage director Nathalie Grenat
- *Mais n'te promène donc pas toute nue !* (Feydeau), stage director Thomas Aymard (Arsène Lupin)
- *Roberto Zucco* (Koltès), stage director Philippe Labonne (Théâtre en Diagonale)
- *Sextuor Banquet* (Armando Llamas), stage director Michel Bruzat (Théâtre de la Passerelle)

#### 1997

- *Roberto Zucco* (Koltès), stage director Philippe Labonne (Théâtre en Diagonale)
- *Lucrece Borgia* (Victor Hugo), adaptation, stage director Philippe Labonne (Théâtre en Diagonale)
- *La Répétition ou le Rond-point* (M'hamed Benghetaff), reading with Arsène Lupin

#### 1996

- *Maux d'amour* (various), stage director Philippe Labonne (Théâtre en Diagonale)

#### 1994

- *La Steppe Infinie* (Esther Authzig), stage director Nicole Velche