



# Anthony Perez

Maître de conférences -- Université d'Orléans

## contact

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## Formation

2012–xxxx	<b>Maître de Conférences (Section 27)</b> Equipe GAMoC	Université d'Orléans
2011–2012	<b>Attaché Temporaire d'Enseignement et de Recherche</b> Equipe GAMoC - Laboratoire d'Informatique Fondamentale d'Orléans	Université d'Orléans
2008–2011	<b>Thèse sous la direction de Stéphane Bessy et Christophe Paul</b> Algorithmes de noyau pour des problèmes d'édition de graphes et autres structures Soutenue le 14 Novembre 2011	Université Montpellier II
2006–2008	<b>Master Informatique</b> à Finalités Professionnelle et Recherche Unifiées	Université Montpellier II
2003–2006	<b>Licence Mathématiques-Informatique</b>	Université de Nîmes

## Responsabilités administratives

### enseignement

2016–2018	<b>Directeur des études du S2 de la L1 Mathématiques-Informatique</b>	Université d'Orléans
2014–2018	<b>Directeur des études du Master 1 Informatique</b>	Université d'Orléans

### laboratoire et université

2022–xxx	<b>Assistant de prévention et responsable de la Commission Locaux du Bâtiment IIIA</b> à l'Université d'Orléans
2014–2016	<b>Webmaster et responsable</b> du site Internet du Laboratoire d'Informatique Fondamentale d'Orléans (LIFO)
2013	<b>Membre de la cellule Communication</b> du Collegium Sciences et Techniques de l'Université d'Orléans

### organisation de conférences

2016	<b>33rd International Symposium on Theoretical Aspects of Computer Science (STACS)</b> Orléans (France), 17-20 Février 2016
2015	<b>Journées Graphes et Algorithmes (JGA)</b> Orléans (France), 4-6 Novembre 2015
2014	<b>International Workshop on Graph-Theoretic Concepts in Computer Science (WG)</b> Domaine de Chalès (France), 25-27 Juin 2014
2009	<b>Journées Graphes et Algorithmes (JGA)</b> Montpellier (France), 5-6 Novembre 2009
	<b>International Workshop on Graph-Theoretic Concepts in Computer Science (WG)</b> Montpellier (France), 24-26 Juin 2009

## co-auteurs

stéphane bessy  
nathalie camelin  
mathieu chapelle  
manfred cochefert  
victor connes  
jean-françois couturier  
christophe crespelle  
pascal cuxac  
maximilien danisch  
nicolas dugué  
maël dumas  
fedor v. fomin  
florent foucaud  
serge gaspers  
younes gueddari  
sylvain guillemot  
benjamin gras  
frédéric havet  
dieter kratsch  
vincent labatut  
jean-charles lamirel  
mathieu liedloff  
sylvain meignier  
christophe paul  
thibault prouteau  
stéphan thomassé  
saket saurabh  
florian sikora  
ioan todinca  
yuqi wang

## Publications

### Journaux internationaux avec comité de lecture

- Direction matters in complex networks: A theoretical and applied study for greedy modularity optimization  
Nicolas Dugué and Anthony Perez  
*Physica A: Statistical Mechanics and its Applications* 603 (2022) p. 127798. 2022
- On the Complexity of Broadcast Domination and Multipacking in Digraphs  
Florent Foucaud, Benjamin Gras, Anthony Perez, and Florian Sikora  
*Algorithmica* 83.9 (2021) pp. 2651–2677. 2021
- Analysis of the dynamics and influence of the research work of Prof. Liu Zeyuan in China featuring a new hybrid approach combining community detection with topic tracking  
Jean-Charles Lamirel, Younes Gueddari, Yuqi Wang, Pascal Cuxac, Anthony Perez, and Nicolas Dugué  
*Scientometrics* 126.7 (2021) pp. 6273–6300. 2021
- An  $O(n^2)$  time algorithm for the MINIMAL PERMUTATION COMPLETION problem  
Christophe Crespelle, Anthony Perez, and Ioan Todinca  
*Discrete Applied Mathematics* 254 (2019) 80:95. 2019
- Exact Algorithms for Weak Roman Domination  
Mathieu Chapelle, Manfred Cochefert, Jean-François Couturier, Dieter Kratsch, Mathieu Liedloff, and Anthony Perez  
*Discrete Applied Mathematics* 248 (2018) pp. 79–92. 2018
- Linear kernel for Rooted Triplet Inconsistency and other problems based on conflict packing technique  
Christophe Paul, Anthony Perez, and Stéphan Thomassé  
*Journal of Computer and System Sciences* 82.2 (2016) pp. 366–379. 2016
- A community role approach to assess social capitalists visibility in the Twitter network  
Nicolas Dugué, Vincent Labatut, and Anthony Perez  
*Social Network Analysis and Mining* 5.1 (2015) 26:1–26:13. 2015
- On the kernelization of ranking r-CSPs: Linear vertex-kernels for generalizations of Feedback Arc Set and Betweenness in tournaments  
Anthony Perez  
*Discrete Applied Mathematics* 186 (2015) pp. 214–225. 2015
- Social capitalists on Twitter: detection, evolution and behavioral analysis  
Nicolas Dugué and Anthony Perez  
*Social Network Analysis and Mining* 4.1 (2014) p. 178. 2014
- Polynomial kernels for Proper Interval Completion and related problems  
Stéphane Bessy and Anthony Perez  
*Information and Computation* 231 (2013) pp. 89–108. 2013
- On the (Non-)Existence of Polynomial Kernels for  $P_t$ -Free Edge Modification Problems  
Sylvain Guillemot, Frédéric Havet, Christophe Paul, and Anthony Perez  
*Algorithmica* 65.4 (2013) pp. 900–926. 2013
- Kernels for Feedback Arc Set in Tournaments  
Stéphane Bessy, Fedor V. Fomin, Serge Gaspers, Christophe Paul, Anthony Perez, Saket Saurabh, and Stéphan Thomassé  
*Journal of Computer and System Sciences* 77.6 (2011) pp. 1071–1078. 2011
- Polynomial kernels for 3-leaf power graph modification problems  
Stéphane Bessy, Christophe Paul, and Anthony Perez  
*Discrete Applied Mathematics* 158.16 (2010) pp. 1732–1744. 2010

## Conférences internationales avec comité de lecture

### Completion to Chordal Distance-Hereditary Graphs: A Quartic Vertex-Kernel

Christophe Crespelle, Benjamin Gras, and Anthony Perez

*Graph-Theoretic Concepts in Computer Science - 47th International Workshop, WG 2021, Warsaw, Poland, June 23-25, 2021, Revised Selected Papers*, 2021, vol. 12911, pp. 156–168

### A Cubic Vertex-Kernel for Trivially Perfect Editing

Maël Dumas, Anthony Perez, and Ioan Todinca

*46th International Symposium on Mathematical Foundations of Computer Science (MFCS 2021)*, 2021, vol. 202, 45:1–45:14

### Polynomial Kernels for Strictly Chordal Edge Modification Problems

Maël Dumas, Anthony Perez, and Ioan Todinca

*16th International Symposium on Parameterized and Exact Computation (IPEC 2021)*, 2021, vol. 214, 17:1–17:16

### GeST: A New Image Segmentation Technique based on Graph Embedding

Anthony Perez

*Proceedings of the 16th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications, VISIGRAPP 2021, Volume 4: VISAPP, Online Streaming, February 8-10, 2021*, pp. 245–252

### SINr: Fast Computing of Sparse Interpretable Node Representations is not a Sin!

Thibault Prouteau, Victor Connes, Nicolas Dugué, Anthony Perez, Jean-Charles Lamirel, Nathalie Camelin, and Sylvain Meignier

*Advances in Intelligent Data Analysis XIX - 19th International Symposium on Intelligent Data Analysis, IDA 2021, Porto, Portugal, April 26-28, 2021, Proceedings*, 2021, vol. 12695, pp. 325–337

### On the Complexity of Broadcast Domination and Multipacking in Digraphs

Florent Foucaud, Benjamin Gras, Anthony Perez, and Florian Sikora

*Combinatorial Algorithms - 31st International Workshop, IWOCA 2020, Bordeaux, France, June 8-10, 2020, Proceedings*, 2020, vol. 12126, pp. 264–276

### Bringing a Feature Selection Metric from Machine Learning to Complex Networks

Nicolas Dugué, Jean-Charles Lamirel, and Anthony Perez

*Complex Networks*, 2018, pp. 107–118

### An $O(n^2)$ Time Algorithm for the Minimal Permutation Completion Problem

Christophe Crespelle, Anthony Perez, and Ioan Todinca

*Graph-Theoretic Concepts in Computer Science - 41st International Workshop, WG 2015, Garching, Germany, June 17-19, 2015, Revised Papers*, 2015, pp. 103–115

### A reliable and evolutive web application to detect social capitalists

Nicolas Dugué, Anthony Perez, Maximilien Danisch, Florian Bridoux, Amélie Daviau, Tennesy Kolubako, Simon Munier, and Hugo Durbano

*International Conference on Advances in Social Networks Analysis and Mining, ASONAM 2015, Paris, France, August 25 - 28, 2015*, 2015, pp. 741–744

### Identifying the community roles of social capitalists in the Twitter network

Vincent Labatut, Nicolas Dugué, and Anthony Perez

*International Conference on Advances in Social Networks Analysis and Mining, ASONAM 2014, Beijing, China, August 17-20, 2014*, 2014, pp. 371–374

### Exact Algorithms for Weak Roman Domination

Mathieu Chapelle, Manfred Cochefert, Jean-François Couturier, Dieter Kratsch, Mathieu Liedloff, and Anthony Perez

*Combinatorial Algorithms - 24th International Workshop, IWOCA 2013, Rouen, France, July 10-12, 2013, Revised Selected Papers*, 2013, pp. 81–93

### Detecting Social Capitalists on Twitter Using Similarity Measures

Nicolas Dugué and Anthony Perez

*Complex Networks IV - 4th Workshop on Complex Networks, Berlin, Germany, March 13-15, 2013*, 2013, pp. 1–12

#### Linear Vertex-kernels for Several Dense Ranking $r$ -Constraint Satisfaction Problems

Anthony Perez

*Theory and Applications of Models of Computation, 10th International Conference, TAMC 2013, Hong Kong, China, May 20-22, 2013*, 2013, pp. 306–318

#### Polynomial Kernels for Proper Interval Completion and Related Problems

Stéphane Bessy and Anthony Perez

*Fundamentals of Computation Theory - 18th International Symposium, FCT 2011, Oslo, Norway, August 22-25, 2011. Proceedings*, 2011, pp. 229–239

#### Conflict Packing Yields Linear Vertex-Kernels for $k$ -FAST, $k$ -dense RTI and a Related Problem

Christophe Paul, Anthony Perez, and Stéphan Thomassé

*Mathematical Foundations of Computer Science 2011 - 36th International Symposium, MFCS 2011, Warsaw, Poland, August 22-26, 2011. Proceedings*, 2011, pp. 497–507

#### On the (Non-)existence of Polynomial Kernels for $P_l$ -free Edge Modification Problems

Sylvain Guillemot, Christophe Paul, and Anthony Perez

*Parameterized and Exact Computation - 5th International Symposium, IPEC 2010, Chennai, India, December 13-15, 2010. Proceedings*, 2010, pp. 147–157

#### Kernels for Feedback Arc Set In Tournaments

Stéphane Bessy, Fedor V. Fomin, Serge Gaspers, Christophe Paul, Anthony Perez, Saket Saurabh, and Stéphan Thomassé

*IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS 2009, December 15-17, 2009, IIT Kanpur, India, 2009*, pp. 37–47

#### Polynomial Kernels for 3-Leaf Power Graph Modification Problems

Stéphane Bessy, Christophe Paul, and Anthony Perez

*Combinatorial Algorithms, 20th International Workshop, IWOCA 2009, Hradec nad Moravicí, Czech Republic, June 28-July 2, 2009, Revised Selected Papers*, 2009, pp. 72–82

## Conférences nationales avec comité de lecture

#### Identification de rôles communautaires dans des réseaux orientés appliquée à Twitter

Nicolas Dugué, Vincent Labatut, and Anthony Perez

*14èmes Journées Francophones Extraction et Gestion des Connaissances, EGC 2014, Rennes, France, 28-32 Janvier, 2014*, 2014, vol. E-26, pp. 125–130

#### Les capitalistes sociaux sur Twitter : détection via des mesures de similarité

Nicolas Dugué and Anthony Perez

*Extraction et gestion des connaissances (EGC'2013), Actes, 29 janvier - 01 février 2013, Toulouse, France, 2013*, vol. RNTI-E-24, pp. 329–334