

## Publications de Vincent LABATUT - Liste des publications depuis 2000

### Journaux internationaux à comité de lecture

1. Alexandre Reiffers and Vincent Labatut. “Opinion-based Centrality in Multiplex Networks”. *Network Science*, Accepted paper (2017).
2. Jean-Valère Cossu, Vincent Labatut, and Nicolas Dugué. “[A Review of Features for the Discrimination of Twitter Users: Application to the Prediction of Offline Influence](#)”. *Social Network Analysis and Mining (SNAM)*, 6 (2016), p. 25. doi: 10.1007/s13278-016-0329-x.
3. Nicolas Dugué, Vincent Labatut, and Anthony Perez. “[A Community Role Approach To Assess Social Capitalists Visibility in the Twitter Network](#)”. *Social Network Analysis and Mining (SNAM)*, 5 (2015), p. 26. doi: 10.1007/s13278-015-0266-0.
4. Vincent Labatut. “[Generalized Measures for the Evaluation of Community Detection Methods](#)”. *International Journal of Social Network Mining (IJSNM)*, 2, 1 (2015), pp. 44–63. doi: 10.1504/IJSNM.2015.069776.
5. Günce Keziban Orman, Vincent Labatut, Marc Plantevit, and Jean-François Boulicaut. “[Interpreting communities based on the evolution of a dynamic attributed network](#)”. *Social Network Analysis and Mining (SNAM)*, 5 (2015), p. 20. doi: 10.1007/s13278-015-0262-4.
6. Günce Keziban Orman, Vincent Labatut, and Hocine Cherifi. “[Towards realistic artificial benchmark for community detection algorithms evaluation](#)”. *International Journal of Web Based Communities*, 9, 3 (2013), pp. 349–370. doi: 10.1504/IJWBC.2013.054908.
7. Günce Keziban Orman, Vincent Labatut, and Hocine Cherifi. “[Comparative Evaluation of Community Detection Algorithms: A Topological Approach](#)”. *Journal of Statistical Mechanics: Theory and Experiment*, 08 (2012), P08001. doi: 10.1088/1742-5468/2012/08/P08001.
8. Vincent Labatut and Hocine Cherifi. “[Evaluation of Performance Measures for Classifiers Comparison](#)”. *Ubiquitous Computing and Communication Journal*, 6 (2011), pp. 21–34.
9. Günce Keziban Orman, Vincent Labatut, and Hocine Cherifi. “[On Accuracy of Community Structure Discovery Algorithms](#)”. *Journal of Convergence Information Technology*, 6, 11 (2011), pp. 283–292. doi: 10.4156/jcit.vol6.issue11.32.
10. Vincent Labatut, Josette Pastor, Serge Ruff, Jean-François Démonet, and Pierre Celsis. “[Cerebral modeling and dynamic Bayesian networks](#)”. *Artificial Intelligence in Medicine*, 30, 2 (2004), pp. 119–139. doi: 10.1016/S0933-3657(03)00042-3.

### Chapitres d'ouvrages

11. Vincent Labatut and Jean-Michel Balasque. “[Informative Value of Individual and Relational Data Compared Through Business-Oriented Community Detection](#)”. In: *The Influence of Technology on Social Network Analysis and Mining*. Ed. by T. Özyer, J. Rokne, G. Wagner, and A. H. P. Reuser. *Lecture Notes in Social Networks*. Springer, 2013. Chap. 6, pp. 303–330. doi: 10.1007/978-3-7091-1346-2\_13.
12. Vincent Labatut and Jean-Michel Balasque. “[Detection and Interpretation of Communities in Complex Networks: Methods and Practical Application](#)”. In: *Computational Social Networks: Tools, Perspectives and Applications*. Ed. by A. Abraham and A.-E. Hassanien. Springer, 2012. Chap. 4, pp. 81–113. doi: 10.1007/978-1-4471-4048-1\_4.

### Conférences internationales à comité de lecture

13. Xavier Bost, Vincent Labatut, Serigne Gueye and Georges Linarès. “[Narrative smoothing: dynamic conversational network for the analysis of TV Series plots](#)”. In: DyNo 2nd International Workshop on Dynamics in Networks, in conjunction with the IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM), San Francisco, US-CA, 2016.
14. Didier Josselin, Vincent Labatut, and Dieter Mitsche. “[Straightness of rectilinear vs. radio-concentric networks: modeling, simulation and comparison](#)”. In: 7th Annual Symposium on Simulation for Architecture and Urban Design (SimAUD), London, UK, 2016.
15. Jean-Valère Cossu, Nicolas Dugué, and Vincent Labatut. “[Detecting Real-World Influence Through Twitter](#)”. In: 2nd European Network Intelligence Conference (ENIC). Karlskrona, SE, 2015, pp. 83–90. doi: 10.1109/ENIC.2015.20.
16. Israel Mendonça, Rosa Figueiredo, Vincent Labatut, and Philippe Michelon. “[Relevance of Negative Links in Graph Partitioning: A Case Study Using Votes From the European Parliament](#)”. In: 2nd European Network Intelligence Conference (ENIC). Karlskrona, SE, 2015, pp. 122–129. doi: 10.1109/ENIC.2015.25.
17. Günce Keziban Orman, Vincent Labatut, Marc Plantevit, and Jean-François Boulicaut. “[A Method for Characterizing Communities in Dynamic Attributed Complex Networks](#)”. In: IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM). Beijing, CN, 2014, pp. 481–484. doi: 10.1109/ASONAM.2014.6921629.
18. Nicolas Dugué, Vincent Labatut, and Anthony Perez. “[Identifying the Community Roles of Social Capitalists in the Twitter Network](#)”. In: IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM). Beijing, CN, 2014, pp. 371–374. doi: 10.1109/ASONAM.2014.6921612.
19. Burcu Kantarcı and Vincent Labatut. “[Classification of Complex Networks Based on Topological Properties](#)”. In: 3rd Conference on Social Computing and its Applications (SCA). Karlsruhe, DE: IEEE Publishing, 2013, pp. 297–304. doi: 10.1109/CGC.2013.54.
20. Samet Atdağ and Vincent Labatut. “[A Comparison of Named Entity Recognition Tools Applied to Biographical Texts](#)”. In: 2nd International Conference on Systems and Computer Science (ICSCS). Lille, FR: IEEE Publishing, 2013, pp. 228–233. doi: 10.1109/IcConSCS.2013.6632052.
21. Günce Keziban Orman, Vincent Labatut, and Hocine Cherifi. “[An Empirical Study of the Relation Between Community Structure and Transitivity](#)”. In: 3rd Workshop on Complex Networks (CompleNet 2012). Vol. 424. Studies in Computational Intelligence. Melbourne, US-FL: Springer, 2013, pp. 99–110. doi: 10.1007/978-3-642-30287-9\_11.
22. Vincent Labatut and Atay Özgövde. “[Topological measures for the analysis of wireless sensor networks](#)”. In: 3rd International Conference on Ambient Systems, Networks and Technologies (ANT). vol. 10. Procedia Computer Science. Niagara Falls, CA: Elsevier, 2012, pp. 397–404. doi: 10.1016/j.procs.2012.06.052.
23. Chantal Cherifi, Vincent Labatut, and Jean-François Santucci. “[On Flexible Web Services Composition Networks](#)”. In: 1st International Conference on Digital Information and Communication Technology and its Applications (DICTAP). vol. 166. Communications in Computer and Information Science. Dijon, FR: Springer, 2011, pp. 45–59. doi: 10.1007/978-3-642-21984-9\_5.
24. Günce Keziban Orman, Vincent Labatut, and Hocine Cherifi. “[Qualitative Comparison of Community Detection Algorithms](#)”. In: 1st International Conference on Digital Information and Communication Technology and its Applications (DICTAP). vol. 167.

- Communications in Computer and Information Science. Dijon, FR: Springer, 2011, pp. 265–279. doi: 10.1007/978-3-642-22027-2\_23.
25. Cihan Aksoy, Vincent Labatut, Chantal Cherifi, and Jean-François Santucci. “[MATAWS: A Multimodal Approach for Automatic WS Semantic Annotation](#)”. In: 3rd International Conference on Networked Digital Technologies (NDT). vol. 136. Communications in Computer and Information Science. Macau, CN: Springer, 2011, pp. 319–333. doi: 10.1007/978-3-642-22185-9\_27.
  26. Vincent Labatut and Hocine Cherifi. “[Accuracy Measures for the Comparison of Classifiers](#)”. In: 5th International Conference on Information Technology (ICIT). Amman, JO, 2011, 5p.
  27. Vincent Labatut and Jean-Michel Balasque. “[Business-oriented Analysis of a Social Network of University Students](#)”. In: International Conference on Advances in Social Networks Analysis and Mining (ASONAM). Odense, DK: IEEE Publishing, 2010, pp. 25–32. doi: 10.1109/ASONAM.2010.15.
  28. Günce Keziban Orman and Vincent Labatut. “[The Effect of Network Realism on Community Detection Algorithms](#)”. In: International Conference on Advances in Social Networks Analysis and Mining (ASONAM). Odense, DK: IEEE Publishing, 2010, pp. 301–305. doi: 10.1109/ASONAM.2010.70.
  29. Chantal Cherifi, Vincent Labatut, and Jean-François Santucci. “[Benefits of Semantics on Web Service Composition from a Complex Network Perspective](#)”. In: 2nd International Conference on Networked Digital Technologies (NDT). vol. 88. Communications in Computer and Information Science. Prague, CZ: Springer, 2010, pp. 80–90. doi: 10.1007/978-3-642-14306-9\_9.
  30. Chantal Cherifi, Vincent Labatut, and Jean-François Santucci. “[Topological Properties of Web Services Similarity Networks](#)”. In: 6th International Conference on Computer Science and Information Systems (ICCSIS). Athens, GR: Athens Institute for Education and Research (ATINER), 2010, 12p.
  31. Chantal Cherifi, Vincent Labatut, and Jean-François Santucci. “[Web Services Dependency Networks Analysis](#)”. In: 2nd International Conference on New Media and Interactivity (NMIC). Istanbul, TR, 2010, 9p.
  32. Günce Keziban Orman and Vincent Labatut. “[A Comparison of Community Detection Algorithms on Artificial Networks](#)”. In: 12th International Conference on Discovery Science (DS). vol. 5808. Lecture Notes in Artificial Intelligence. Porto, PT: Springer, 2009, pp. 242–256. doi: 10.1007/978-3-642-04747-3\_20.
  33. Günce Keziban Orman and Vincent Labatut. “[Relative Evaluation of Partition Algorithms for Complex Networks](#)”. In: 1st International Conference on Networked Digital Technologies (NDT). Ostrava, CZ: IEEE Publishing, 2009, pp. 20–25. doi: 10.1109/NDT.2009.5272078.
  34. Barış Aksoy, Vincent Labatut, Murat Egi, Tamer Özyiğit, Petar Denoble, Costantino Balestra, Richard Vann, and Alessandro Marroni. “[Association rules of DCI patient clusters and reliability of clustering analysis](#)”. In: International Conference on Diving Hyperbaric Medicine. Aberdeen, UK: European Underwater and Barometrical Society, 2009, 6p.
  35. Vincent Labatut, Josette Pastor, and Serge Ruff. “[Dynamic Bayesian modeling of the cerebral activity](#)”. In: 18<sup>th</sup> International joint conference on artificial intelligence (IJCAI). Acapulco, MX: AAAI Press, 2003, pp. 169–174. doi: 10.1.1.106.8036.

36. [Vincent Labatut](#) and Josette Pastor. “[Dynamic Bayesian Networks for Integrated Neural Computation](#)”. In: 1<sup>st</sup> International IEEE-EMBS Conference on Neural Engineering. Capri, IT: Omnipress, 2003, pp. 537–540. doi: 10.1109/CNE.2003.1196882.
37. [Vincent Labatut](#) and Josette Pastor. “[Modeling the cerebral activity with dynamic probabilistic networks](#)”. In: 5<sup>th</sup> International Conference on Simulations in Biomedicine (BioMedicine). Ljubljana, SI: WIT Press, 2003, pp. 459–468. doi: 10.2495/BIO030451.
38. [Vincent Labatut](#) and Josette Pastor. “[Bayesian Modeling of Cerebral Information Processing](#)”. In: Bayesian Models in Medicine - 8th European conference on Artificial Intelligence in Medicine (AIME). Cascais, PT, 2001, pp. 41–46.

#### Journaux nationaux à comité de lecture

39. Didier Josselin, Sonia Chekir, Alain Pasquet, [Vincent Labatut](#), Yvan Capowiez, Christophe Mazzia, Yezekael Hayel, Adrien Lammoglia, Cyrille Genre-Grandpierre, Dieter Mitsche, and Frédéric Patras. “[Modélisation, simulation et analyse de propriétés de réseaux orbitales](#)”. Revue Internationale de Géomatique / International Journal of Geomatics and Spatial Analysis, 25, 4 (2015), pp. 515–536. doi: 10.3166/RIG.25.515-536.

#### Conférences nationales à comité de lecture

40. Xavier Bost, [Vincent Labatut](#), Serigne Gueye and Georges Linarès. “[Extraction de réseaux dynamiques conversationnels par lissage narratif](#)” (Extracting conversational dynamic networks through narrative smoothing). In: 7<sup>ème</sup> Conférence sur les modèles et l’analyse de réseaux : approches mathématiques et informatiques (MARAMI). Cergy-Pontoise, FR, 2016, 12p.
41. Israel Mendonça, Rosa Figueiredo, [Vincent Labatut](#), and Phillippe Michelon. “[Informative Value of Negative Links for Graph Partitioning, with an application to European Parliament Votes](#)”. In: 6<sup>ème</sup> Conférence sur les modèles et l’analyse de réseaux : approches mathématiques et informatiques (MARAMI). Nîmes, FR, 2015, 12p.
42. Guillaume Marrel, [Vincent Labatut](#), and Marc El Bèze. “[Le Web comme miroir du travail politique quotidien ? Reconstituer l’écho médiatique en ligne des événements d’un agenda d’élus](#)” (The WWW as a mirror of daily political work? Retrieving the online media coverage of an elect’s calendar). In: 13<sup>ème</sup> Congrès de l’Association Française de Science Politique (AFSP). Aix-en-Provence, FR, 2015, p. 25.
43. [Vincent Labatut](#). “[Étude de l’omniprésence des propriétés petit-monde et sans-échelle](#) (Studying the Ubiquity of the Small-World and Scale-Free Properties)”. In: 5<sup>ème</sup> Conférence sur les modèles et l’analyse de réseaux : approches mathématiques et informatiques (MARAMI). Paris, FR, 2014, 12p.
44. Günce Keziban Orman, [Vincent Labatut](#), Marc Plantevit, and Jean-François Boulicaut. “[Une méthode pour caractériser les communautés des réseaux dynamiques à attributs](#) (A method to characterize communities in attributed dynamic networks)”. In: 14<sup>ème</sup> Conférence Extraction et Gestion des Connaissances (EGC). Rennes, FR, 2014, pp. 101–112.
45. Nicolas Dugué, [Vincent Labatut](#), and Anthony Perez. “[Identification de rôles communautaires dans des réseaux orientés, appliquée à Twitter](#) (Identification of community roles in directed networks, applied to Twitter)”. In: 14<sup>ème</sup> Conférence Extraction et Gestion des Connaissances (EGC). Rennes, FR, 2014, pp. 125–130.
46. Nicolas Dugué, [Vincent Labatut](#), and Anthony Perez. “[Rôle communautaire des capitalistes sociaux dans Twitter](#) (Community role of social capitalists in Twitter)”. In:

4ème Conférence sur les modèles et l'analyse de réseaux : approches mathématiques et informatiques (MARAMI). Saint-Étienne, FR, 2013, 12p.

47. Vincent Labatut. "[Une nouvelle mesure pour l'évaluation des méthodes de détection de communautés](#) (A new measure for the evaluation of community detection methods)". In: 3ème Conférence sur les modèles et l'analyse de réseaux : approches mathématiques et informatiques (MARAMI). Paris-Villetaneuse, FR, 2012, 12p.
48. Günce Keziban Orman, Vincent Labatut, and Hocine Cherifi. "[Relation entre transitivité et structure de communauté dans les réseaux complexes](#) (Relationship between transitivity and community structure in complex networks)". In: 2ème Journée thématique Fouille de grands graphes (JFGG). Grenoble, FR, 2011, 4p.
49. Josette Pastor and Vincent Labatut. "[Modélisation de la structure fonctionnelle cérébrale](#) (Modeling of the cerebral functional structure)". In: 10èmes Journées Neurosciences & Sciences de l'Ingénieur (NSI). Dinar, FR, 2000, pp. 93–94.

#### Conférences locales

50. Vincent Labatut, Josette Pastor, and Serge Ruff. "Le cerveau humain : un réseau causal fonctionnel ? (Human brain: A causal functional network?)" In: 1er Colloque des doctorants de l'École Doctorale Informatique et Télécommunications (EDIT). Toulouse, FR: Université Paul Sabatier - Toulouse III, 2002, pp. 34–39.
51. Vincent Labatut, Josette Pastor, Marc Lafon, and Pierre Celsis. "Modèles intégrés du traitement de l'information cérébrale (Integrated models of the cerebral information processing)". In: Journées INSERM Midi-Pyrénées. Toulouse, FR: INSERM, 2001, 2p.

#### Articles soumis

52. Xavier Bost, Serigne Gueye, Vincent Labatut, Martha Larson, Georges Linarès, Damien Malinas and Raphaël Roth. "Remembering Winter Was Coming: Character-oriented Video Summaries of TV Series". Submitted to: IEEE Transactions on Multimedia, 2017.
53. Vincent Labatut. Continuous Average Straightness in Spatial Networks. Submitted to: Journal of Complex Networks, 2017.
54. Xavier Bost, Vincent Labatut, Huijuan Wang and Georges Linarès. "Conversational Networks in TV Series: A Preliminary Study". Submitted to: --, 2017.
55. Xavier Bost, Vincent Labatut, Serigne Gueye and Georges Linarès. "Extraction and analysis of dynamic conversational networks from TV series". Submitted to: Social Network Analysis and Mining. Social Network Analysis Lecture Notes. Springer, 2017.
56. Vincent Labatut and Günce Keziban Orman. "Community Structure Characterization". Submitted to: Encyclopedia of Social Network Analysis and Mining (2<sup>nd</sup> edition). Ed. by R. Alhajj and J. Rokne. Springer, 2017.
57. Günce Keziban Orman, Vincent Labatut and Ahmet Teoman Naskali. "Exploring the Evolution of Node Neighborhoods in Dynamic Networks". Submitted to: Physica A: Statistical Mechanics and its Applications, 2017.

#### Mémoires

58. Vincent Labatut. "[Réseaux causaux probabilistes à grande échelle : un nouveau formalisme pour la modélisation du traitement de l'information cérébrale](#) (Large-scale probabilistic cerebral networks: a new formalism for the modeling of cerebral information processing)". PhD thesis. Toulouse, FR: Université Paul-Sabatier - Toulouse III, École Doctorale Représentation des connaissances et formalisation du raisonnement (RCFR), 2003.

59. Vincent Labatut. “Réseaux causaux : quelle approche pour le cerveau ? (Causal networks: which approach for cerebral modeling?)” MSc thesis. Toulouse, FR: Université Paul-Sabatier - Toulouse III, Formation Doctorale Représentation des connaissances et formalisation du raisonnement (RCFR), 2000.

#### Rapports et travaux non-publiés

60. Vincent Labatut. [Improved Named Entity Recognition Through SVM-based Combination. Technical Report](#). Istanbul, TR: Galatasaray University, Computer Science Department, 2013, 12p.
61. Cihan Aksoy and Vincent Labatut. [A Fully Automatic Approach to the Semantic Annotation of Web Service Descriptions](#). Technical Report. Istanbul, TR: Galatasaray University, Computer Science Department, 2012, 21p.
62. Jean-Michel Balasque and Vincent Labatut. [Valeur informative supplémentaire apportée par l'analyse des réseaux sociaux: premiers enseignements d'une étude au sein d'une population étudiante](#). Technical Report. Istanbul, TR: Galatasaray University, Computer Science and Management Departments, 2010.
63. Günce Keziban Orman and Vincent Labatut. [A Modification to Improve the Realism of Networks Generated with the LFR Model](#). Technical Report. Istanbul, TR: Galatasaray University, Computer Science Department, 2010.