

# Cristel PELSSER

The focus of my research is on critical embedded systems, network operations, routing, Internet measurements, and protocols.

## Professional Activities

### Conference Steering Committee

- Steering committee of [TMA](#)

### Conference Organizer

- General co-chair of [IMC 2022](#)
- Co-chair of [PAM 2022](#)
- Chair of [Networking 2021](#) poster and demo session
- Co-chair of [GIS 2020](#)
- Co-chair of [AINTEC 2019](#)
- Co-chair of the [TMA PhD School 2019](#)
- Co-chair of [AINTEC 2018](#)
- Co-chair of [AlgoTel 2018](#)
- Co-chair of [SIGCOMM 2015](#) posters, demos and the ACM Student Research Competition
- Co-chair of [CoNExt 2011](#) Shadow TPC

### Conference TPC Membership

- TPC member of CoNEXT 2022
- TPC member of IMC 2021 (member fo the Review Task Force)
- TPC member of IMC 2020
- TPC member of CoNEXT 2019
- TPC member of IMC 2019
- TPC member of CoNEXT 2018
- TPC member of IMC 2018
- TPC member of IMC 2017
- TPC member of SIGCOMM 2017 Posters and Demos
- TPC member of CoNEXT 2015
- TPC member of HotNets 2014
  
- TPC member of GIS 2022
- TPC member of AINTEC 2022
- TPC member of PAM 2021 (member fo the Review Task Force)
- TPC member of ANRP 2021
- TPC member of TMA 2021
- TPC member of AnNet 2021
- TPC member of GIS 2021
- TPC member of AINTEC 2021
- TPC member of CoRes 2021
- TPC member of SARNET 2021
- TPC member of ARNW 2020
- TPC member of TMA 2020
- TPC member of CoRes 2020
- TPC member of GIS 2019
- TPC member of PAM 2019
- TPC member of CoRes 2019
- TPC member of ANRW 2018
- TPC member of TMA 2018
- TPC member of PAM 2017
- TPC member of GIS 2017
- TPC member of ITC29
- TPC member of CoRes 2017
- TPC member of TMA 2014
- TPC member of AINTEC 2014
- TPC member of AINTEC 2013
- TPC member of GI 2013
- TPC member of the CoNEXT Student Workshop in 2010 and 2009
- Member of the Shadow TPC of CoNEXT 2007

## Reviewer

Occasional reviewer for magazines such as Transactions on Networking (ACM), Communications Magazine (IEEE), Computer Networks, ACM SIGCOMM Computer Communication Review, and IEEE Transactions on Network and Service Management ...

## Membership

- Member of the [WIDE project](#)

## Awards

- Applied Networking Research Prize (ANRP) of the Internet Research Task Force (IRTF) granted at [IETF-104](#) in 2019 for our work on attacks using BGP communities.

*Florian Streibelt, Franziska Lichtblau, Robert Beverly, Anja Feldmann, Cristel Pelsser, Georgios Smaragdakis, and Randy Bush.* ["BGP Communities: Even more Worms in the Routing Can"](#). IMC 2018.

- Best paper award at Design of Reliable Communication Networks ([DRCN 2016](#)).

*Antoine Fressancourt, Cristel Pelsser, Maurice Gagnaire.* ["Kumori: Steering Cloud Traffic at IXPs to Improve Resiliency"](#). In Design of Reliable Communication Networks (DRCN 2016), Paris, France, March 2016.

- Applied Networking Research Prize (ANRP) of the Internet Research Task Force (IRTF) granted at [IETF-87](#) in 2013 for the framework on seamless BGP reconfigurations.

*Stefano Vissicchio, Laurent Vanbever, Cristel Pelsser, Luca Cittadini, Pierre Francois and Olivier Bonaventure.* ["Improving Network Agility with Seamless BGP Reconfigurations"](#). IEEE/ACM Transactions on Networking, October 2012.

- Best presentation Award at Colloque Francophone sur l'Ingénierie des Protocoles ([CFIP 2005](#)).

*Steve Uhlig, Cristel Pelsser (Presenter), Bruno Quoitin and Olivier Bonaventure.* ["Vers des réflecteurs de routes plus intelligents"](#). Colloque Francophone sur l'Ingénierie des Protocoles (CFIP 2005), March-April 2005.

## Publications

### International Journals and Magazines

- *Maxime Piraux, Tom Barbette, Nicolas Rybowski, Louis Navarre, Thomas Alfroy, Cristel Pelsser, François Michel, Olivier Bonaventure.* ["The Multiple Roles That IPv6 Addresses Can Play in Today's Internet"](#). SIGCOMM Comput. Commun. Rev., Volume 52, pages 10-18, New York, NY, USA, September 2022
- *Jean-Romain Luttringer, Thomas Alfroy, Pascal Mérindol, Quentin Bramas, François Clad, Cristel Pelsser.* ["Deploying Near-Optimal Delay-Constrained Paths with Segment Routing in Massive-Scale Networks"](#). Computer Networks, June 2022
- *Mohamed Amine Falek, Cristel Pelsser, Sébastien Julien, Fabrice Theoleyre.* ["MUSE: Multimodal Separators for Efficient Route Planning in Transportation Networks"](#). Transportation Science, INFORMS, October 2021
- *M. Falek, A. Gallais, C. Pelsser, S. Julien, F. Theoleyre.* ["To Re-Route, or not to Re-Route: Impact of Real-Time Re-Routing in Urban Road Networks"](#). Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, June 2021
- *Julián M. Del Fiore, Valerio Persico, Pascal Mérindol, Cristel Pelsser, Antonio Pescapè.* ["The Art of Detecting Forwarding Detours"](#). IEEE Transactions on Network and Service Management, Volume PP, pages 1-1, February 2021
- *Juan Brenes, Alberto Garcia-Martinez, Marcelo Bagnulo, Andra Lutu, Cristel Pelsser.* ["Power Prefixes Prioritization for Smarter BGP Reconvergence"](#). IEEE/ACM Transactions on Networking, Volume 28, pages 1074-1087, June 2020
- *E. Carisimo, J. Del Fiore, D. Dujovne, C. Pelsser, I. Alvarez-Hamelin.* ["A first look at the Latin American IXPs"](#). ACM SIGCOMM Computer Communication Review, January 2020
- *D. Hauweele, B. Quoitin, C. Pelsser, R. Bush.* ["What do parrots and BGP routers have in common?"](#). ACM SIGCOMM Computer Communication Review, Volume 46, pages NA, July 2016
- *Andra Lutu, Marcelo Bagnulo, Cristel Pelsser, Olaf Maennel, Jesús Cid-Sueiro.* ["The BGP Visibility Toolkit: Detecting Anomalous Internet Routing Behavior"](#). IEEE/ACM Transactions on Networking, Volume 24, pages 1237-1250, April 2015
- *Andra Lutu, Marcelo Bagnulo, Cristel Pelsser, Kenjiro Cho, Rade Stanojevic.* ["An analysis of the economic impact of strategic deaggregation"](#). Computer Networks, Volume 81, pages 147-163, March 2015
- *Stefano Vissicchio, Laurent Vanbever, Cristel Pelsser, Luca Cittadini, Pierre François, Olivier Bonaventure.* ["Improving Network Agility With Seamless BGP Reconfigurations"](#). IEEE/ACM Transactions on Networking, Volume 21, pages 990-1002, June 2013
- *Laurent Vanbever, Stefano Vissicchio, Cristel Pelsser, Pierre François, Olivier Bonaventure.* ["Lossless migrations of link-state IGP"](#). IEEE/ACM Transactions on Networking, Volume 20, pages 1842-1855, April 2012
- *Cristel Pelsser, Steve Uhlig, Tomonori Takeda, Bruno Quoitin, Kohei Shiomoto.* ["Providing scalable NH-diverse iBGP route re-distribution to achieve sub-second switch-over time"](#). Comput. Networks, Volume 54, pages 2492-2505, April 2010
- *Bruno Quoitin, Cristel Pelsser, Olivier Bonaventure, Steve Uhlig.* ["A performance evaluation of BGP-based traffic engineering"](#). International Journal of Network Management, Volume 15, pages 177-191, May 2005
- *Bruno Quoitin, Cristel Pelsser, L. Swinnen, Olivier Bonaventure, Steve Uhlig.* ["Interdomain traffic engineering with BGP"](#). IEEE Communications Magazine, Volume 41, pages 122-128, May 2003

## International Conferences

- *Romain Fontugne, Amreesh Phokeer, Cristel Pelsser, Kevin Vermeulen, Randy Bush.* ["RPKI Time-of-Flight: Tracking Delays in the Management, Control, and Data Planes"](#). Passive and Active Measurement, Cham, March 2023
- *Ryo Nakamura, Kazuki Shimizu, Teppei Kamata, Cristel Pelsser.* ["A First Measurement with BGP Egress Peer Engineering"](#). Passive and Active Measurement - 23th International Conference, PAM 2022, March 2022
- *C. Mosig, R. Bush, C. Pelsser, T. Schmidt, M. Wählisch.* ["Revisiting Recommended BGP Route Flap Damping Configurations"](#). Proc. of Network Traffic Measurement and Analysis Conference (TMA), September 2021
- *A. Guillot, F. Theoleyre, C. Pelsser.* ["Fair Delegation of Digital Services Without Third Parties"](#). Symposium on Computers and Communications (ISCC), September 2021
- *L. Miller, P. Merindol, A. Gallais, C. Pelsser.* ["Towards Secure and Leak-Free Workflows Using Microservice Isolation"](#). IEEE International Conference on High Performance Switching and Routing Conference (HPSR), June 2021
- *Jean-Romain Luttringer, Quentin Bramas, Cristel Pelsser, Pascal Mérindol.* ["A Fast-Convergence Routing of the Hot-Potato"](#). Infocom, April 2021
- *L. Miller, P. Merindol, A. Gallais, C. Pelsser.* ["Verification of Cloud Security Policies"](#). IEEE International Conference on High Performance Switching and Routing Conference (HPSR), January 2021
- *Jean-Romain Luttringer, Thomas Alfroy, Pascal Mérindol, Quentin Bramas, François Clad, Cristel Pelsser.* ["Computing Delay-Constrained Least-Cost Paths for Segment Routing is Easier Than You Think"](#). IEEE International Symposium on Network Computing and Applications, Volume abs/2011.05191, On-Line, France, November 2020
- *C. Gray, C. Mosig, R. Bush, C. Pelsser, M. Roughan, T. Schmidt, M. Wählisch.* ["BGP Beacons, Network Tomography, and Bayesian Computation to Locate Route Flap Damping"](#). Internet Measurement Conference (IMC), Virtual Event, USA, January 2020
- *Marco Zennaro, Cristel Pelsser, Franck Albinet, Pietro Manzoni.* ["Evaluating the performance of NRENs in deploying IoT in Africa: the case for TTN"](#). 2020 IEEE 17th Annual Consumer Communications & Networking Conference (CCNC), Las Vegas, NV, USA, January 2020
- *Odnan Ref Sanchez, Simone Ferlin, Cristel Pelsser, Randy Bush.* ["Comparing Machine Learning Algorithms for BGP Anomaly Detection Using Graph Features"](#). Big-DAMA, Orlando, FL, USA, December 2019
- *Loïc Miller, Cristel Pelsser.* ["A Taxonomy of Attacks Using BGP Blackholing"](#). European Symposium on Research in Computer Security, Volume 11735, pages 107-127, Luxembourg, September 2019
- *Julián Martín Del Fiore, Pascal Mérindol, Valerio Persico, Cristel Pelsser, Antonio Pescapè.* ["Filtering the Noise to Reveal Inter-Domain Lies"](#). Network Traffic Measurement and Analysis Conference, TMA 2019, Paris, France, June 2019
- *Andreas Guillot, Romain Fontugne, Philipp Winter, Pascal Mérindol, Alistair King, Alberto Dainotti, Cristel Pelsser.* ["Chocolatine: Outage Detection for Internet Background Radiation"](#). Network Traffic Measurement and Analysis Conference, TMA 2019, Paris, France, June 19-21, 2019, Paris, France, June 2019
- *Florian Streibelt, Franziska Lichtblau, Robert Beverly, Anja Feldmann, Cristel Pelsser, Georgios Smaragdakis, Randy Bush.* ["BGP Communities: Even more Worms in the Routing Can"](#). Proceedings of the Internet Measurement Conference 2018, IMC 2018, Boston, MA, USA, October 2018
- *Mohamed Amine Falek, Cristel Pelsser, Antoine Gallais, Sebastien Julien, Fabrice Theoleyre.* ["Unambiguous, Real-Time and Accurate Map Matching for Multiple Sensing Sources"](#). 14th International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2018, Limassol, Cyprus, October 2018
- *Thomas Green, Anthony Lambert, Cristel Pelsser, Dario Rossi.* ["Leveraging Inter-domain Stability for BGP Dynamics Analysis"](#). Passive and Active Measurement - 19th International Conference, PAM 2018, Volume 10771, pages 203-215, Berlin, Germany, March 2018
- *Romain Fontugne, Cristel Pelsser, Emile Aben, Randy Bush.* ["Pinpointing Delay and Forwarding Anomalies Using Large-Scale Traceroute Measurements"](#). Proceedings of the 2017 Internet Measurement Conference, IMC 2017, London, United Kingdom, November 2017
- *Thomas Holterbach, Emile Aben, Cristel Pelsser, Randy Bush, Laurent Vanbever.* ["Measurement Vantage Point Selection Using A Similarity Metric"](#). Proceedings of the Applied Networking Research Workshop, Prague, Czech Republic, July 2017
- *Anant Shah, Romain Fontugne, Emile Aben, Cristel Pelsser, Randy Bush.* ["Disco: Fast, good, and cheap outage detection"](#). Network Traffic Measurement and Analysis Conference, TMA 2017, Dublin, Ireland, June 2017
- *Antoine Fressancourt, Cristel Pelsser, Maurice Gagnaire.* ["Kumori: Steering Cloud traffic at IXPs to improve resiliency"](#). 12th International Conference on the Design of Reliable Communication Networks, DRCN 2016, Paris, France, March 2016
- *Thomas Holterbach, Cristel Pelsser, Randy Bush, Laurent Vanbever.* ["Quantifying Interference between Measurements on the RIPE Atlas Platform"](#). Proceedings of the 2015 Internet Measurement Conference, Tokyo, Japan, October 2015
- *Daniele Iamartino, Cristel Pelsser, Randy Bush.* ["Measuring BGP Route Origin Registration and Validation"](#). Passive and Active Measurement - 16th International Conference, PAM 2015, Volume 8995, pages 28-40, New York, NY, USA, March 2015
- *Andra Lutu, Marcelo Bagnulo, Cristel Pelsser, Olaf Maennel.* ["Understanding the Reachability of IPv6 Limited Visibility Prefixes"](#). Passive and Active Measurement - 15th International Conference, PAM 2014, Volume 8362, pages 163-172, Los Angeles, CA, USA, March 2014
- *Jean Lorchat, Cristel Pelsser, Romain Fontugne.* ["Collaborative Repository for Cybersecurity Data and Threat Information"](#). Third International Workshop on Building Analysis Datasets and Gathering Experience Returns for Security, BADGERS@ESORICS 2014, Wroclaw, Poland, September 11, 2014, Wroclaw, Poland, January 2014
- *Cristel Pelsser, Luca Cittadini, Stefano Vissicchio, Randy Bush.* ["From Paris to Tokyo: on the suitability of ping to measure latency"](#). Proceedings of the 2013 Conference on Internet Measurement Conference, Barcelona, Spain, October 2013
- *Andra Lutu, Cristel Pelsser, Marcelo Bagnulo, Kenjiro Cho.* ["The Aftermath of Prefix Deaggregation"](#). 25th International Teletraffic Congress, ITC 2013, Shanghai, China, September 2013
- *Debbie Perouli, Timothy G. Griffin, Olaf Maennel, Sonia Fahmy, Cristel Pelsser, Alexander J. T. Gurney, Iain Phillips.* ["Detecting unsafe BGP policies in a flexible world"](#). 20th IEEE International Conference on Network Protocols (ICNP), Austin, TX, USA, November 2012

- *Debbie Perouli, Stefano Vissicchio, Alexander Gurney, Olaf Maennel, Timothy Griffin, Iain Phillips, Sonia Fahmy, Cristel Pelsser*. ["Reducing the complexity of BGP stability analysis with hybrid combinatorial-algebraic models"](#). The 2nd International Workshop on Rigorous Protocol Engineering (WRiPE), Austin, TX, USA, November 2012
- *J. Lorchat, C. Pelsser, R. Bush, K. Shima, H. Schlesinger, L. Johansson*. ["TAMIAS: A distributed storage built on privacy and identity"](#). TERENA Networking Conference 2012: 'Networking to Services', TNC 2012, Reykjavik, Island, May 2012
- *Kenjiro Cho, Cristel Pelsser, Randy Bush, Youngjoon Won*. ["The Japan Earthquake: The Impact on Traffic and Routing Observed by a Local ISP"](#). Proceedings of the Special Workshop on Internet and Disasters, Tokyo, Japan, December 2011
- *Laurent Vanbever, Stefano Vissicchio, Cristel Pelsser, Pierre Francois, Olivier Bonaventure*. ["Seamless Network-Wide IGP Migrations"](#). Proceedings of the ACM SIGCOMM 2011 Conference on Applications, Technologies, Architectures, and Protocols for Computer Communications, Toronto, Ontario, Canada, August 2011
- *Iuniana Opreescu, Mickaël Meulle, Steve Uhlig, Cristel Pelsser, Olaf Maennel, Philippe Owezarski*. ["oBGP: An Overlay for a Scalable iBGP Control Plane"](#). 10th IFIP Networking Conference (NETWORKING), Volume LNCS-6640, pages 420-431, Valencia, Spain, May 2011
- *Cristel Pelsser, Olaf Maennel, Pradosh Mohapatra, Randy Bush, Keyur Patel*. ["Route Flap Damping Made Usable"](#). Passive and Active Measurement - 12th International Conference, PAM 2011, Volume 6579, pages 143-152, Atlanta, GA, USA, March 2011
- *Jean Lorchat, Cristel Pelsser, Randy Bush, Keiichi Shima*. ["Tamias: A Privacy Aware Distributed Storage"](#). 9th USENIX Conference on File and Storage (FAST'11), San Jose, CA, February 2011
- *Shohei Kamamura, Takashi Miyamura, Cristel Pelsser, Ichiro Inoue, Kohei Shiomoto*. ["Minimum Backup Configuration-Creation Method for IP Fast Reroute"](#). Proceedings of the Global Communications Conference, 2009. GLOBECOM 2009, Honolulu, Hawaii, USA, December 2009
- *Cristel Pelsser, Akeo Masuda, Kohei Shiomoto*. ["Scalable Support of Interdomain Routes in a Single AS"](#). Proceedings of the Global Communications Conference, 2009. GLOBECOM 2009, Honolulu, HI, USA, December 2009
- *Shohei Kamamura, Takashi Miyamura, Cristel Pelsser, Ichiro Inoue, Kohei Shiomoto*. ["Scalable Backup Configurations Creation for IP Fast Reroute"](#). 7th International Workshop on Design of Reliable Communication Networks (DRCN 2009), October 2009
- *Virginie Schrieck, Pierre Francois, Cristel Pelsser, Olivier Bonaventure*. ["Preventing the Unnecessary Propagation of BGP Withdraws"](#). Proceedings of the 8th International IFIP-TC 6 Networking Conference, Aachen, Germany, May 2009
- *Akeo Masuda, Cristel Pelsser, Kohei Shiomoto*. ["Prototype Design for Scalable Support of Interdomain Routes in a Single AS"](#). 2nd International Workshop on the Network of the Future (FutureNet II), Honolulu, HI, USA, January 2009
- *Cristel Pelsser, Tomonori Takeda, Eiji Oki, Kohei Shiomoto*. ["Improving Route Diversity through the Design of iBGP Topologies"](#). Proceedings of IEEE International Conference on Communications, ICC 2008, Beijing, China, May 2008
- *Cristel Pelsser, Olivier Bonaventure*. ["Path Selection Techniques to Establish Constrained Interdomain MPLS LSPs"](#). Proceedings of the 5th International IFIP-TC6 Conference on Networking Technologies, Services, and Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications Systems, Coimbra, Portugal, May 2006
- *Cristel Pelsser, Steve Uhlig, Olivier Bonaventure*. ["On the Difficulty of Establishing Interdomain LSPs"](#). IEEE International Workshop on IP Operations & Management (IPOM 2004), October 2004
- *C. Pelsser, O. Bonaventure*. ["Extending RSVP-TE to support inter-AS LSPs"](#). Workshop on High Performance Switching and Routing, 2003, HPSR., June 2003
- *Cristel Pelsser, Stefaan De Cnodder*. ["Improvements to Core Stateless Fair Queueing"](#). Proceedings of the 7th IFIP/IEEE International Workshop on Protocols for High Speed Networks, Berlin, Heidelberg, January 2002

## Posters

- *Thomas Alfroy, Thomas Holterbach, Cristel Pelsser*. ["MVP: Measuring Internet Routing from the Most Valuable Points"](#). Poster in the Proceedings of the Internet Measurement Conference (IMC), September 2022
- *Randy Bush, Cristel Pelsser, Thomas Schmidt, Matthias Wählisch, Mosig Clemens*. ["Revisiting Route Flap Damping in the Wild"](#). IMC 2019, Amsterdam, Netherlands, January 2019
- *Thomas Green, Anthony Lambert, Dario Rossi, Cristel Pelsser*. ["Leveraging interdomain stability for squeezed and juicy BGP dynamics"](#). 7th PhD school on Traffic Monitoring and Analysis (TMA), Dublin, Ireland, June 2017
- *Thomas Holterbach, Cristel Pelsser, Randy Bush, Laurent Vanbever*. ["Quantifying Interference Between Measurements On The RIPE Atlas Platform"](#). 5th PhD School on Traffic Monitoring and Analysis (TMA), Barcelona, Spain, April 2015
- *Josh Bailey, Dean Pemberton, Andy Linton, Cristel Pelsser, Randy Bush*. ["Enforcing RPKI-Based Routing Policy on the Data Plane at an Internet Exchange"](#). HotSDN 2014 (Poster session), Chicago, IL, USA, August 2014
- *Debbie Perouli, Timothy G. Griffin, Olaf Maennel, Sonia Fahmy, Iain Phillips, Cristel Pelsser*. ["Detecting the Unintended in BGP Policies"](#). 20th IEEE International Conference on Network Protocols (ICNP) (Poster session), Austin, TX, USA, October 2012
- *Jean Lorchat, Cristel Pelsser, Randy Bush, Keiichi Shima*. ["Tamias: A Privacy Aware Distributed Storage"](#). FAST'2011 Poster, San Jose, CA, USA, February 2011
- *Iuniana Opreescu, Mickael Meulle, Steve Uhlig, Cristel Pelsser, Olaf Maennel, Philippe Owezarski*. ["Rethinking iBGP Routing"](#). SIGCOMM 2010 Poster/Demo, New Delhi, India, August 2010
- *Cristel Pelsser*. ["Using Virtual Coordinates in the Establishment of Inter-domain LSPs"](#). CoNEXT 2005 (Student Workshop), Toulouse, France, October 2005
- *Cristel Pelsser*. ["MPLS Traffic Engineering across AS boundaries"](#). Inter-Domain Routing Workshop (IDRWS 2004), Amsterdam, Netherlands, May 2004

## National Journals and Magazines

- *Cristel Pelsser*. ["ネットワークの再設定に関する共同研究"](#). IJ News, Volume 118, October 2013
- *Jean Lorchat, Cristel Pelsser*. ["Tamias: 安全かつプライベートな個人向け分散ストレージ"](#). IJ Internet Infrastructure Review, Volume 19, May 2013
- *Akeo Masuda, Cristel Pelsser, Kohei Shiomoto*. ["SpliTable: Toward Routing Scalability through Distributed BGP Routing"](#)

[Tables](#)". IEICE Transactions on Communications, Volume 94-B, pages 64-76, January 2011

## National Conferences

- Jean-Romain Luttringer, Quentin Bramas, Cristel Pelsser, Pascal Mérindol. ["L'Art d'Anticiper les Changements IGP pour Acheminer Optimalement la Patate en Transit"](#). Rencontres Franco-phones sur la Conception de Protocoles, l'Evaluation de Performance et l'Expérimentation des Réseaux de Communication CoRes', September 2021
- J. Del Fiore, P. Merindol, C. Pelsser. ["Où un opérateur IP cache-t-il ses détours?"](#). Rencontres Francophones sur la Conception de Protocoles, l'Evaluation de Performance et l'Expérimentation des Réseaux de Communication CoRes', September 2021
- L. Miller, P. Merindol, A. Gallais, C. Pelsser. ["Protection contre les fuites de données : un environnement micro-services sécurisé"](#). Rencontres Francophones sur la Conception de Protocoles, l'Evaluation de Performance et l'Expérimentation des Réseaux de Communication CoRes', La Rochelle, France, September 2021
- Jean-Romain Luttringer, Thomas Alfroy, Pascal Mérindol, François Clad, Cristel Pelsser. ["Le Problème à trois Contraintes : Calcul et Déploiement de Segments de Routage"](#). Rencontres Francophones les aspects algorithmiques des télécommunications AlgoTel', La Rochelle, France, September 2021
- L. Miller, P. Merindol, A. Gallais, C. Pelsser. ["De l'Utilisation des Métagraphes pour la Vérification de Politiques de Sécurité"](#). Rencontres Francophones les aspects algorithmiques des télécommunications AlgoTel, September 2021
- M. Falek, C. Pelsser, S. Julien, F. Theoleyre. ["MUSE: une planification d'itinéraires inspirée de Séparateurs Multimodaux"](#). Algotel, September 2020
- M. Falek, A. Gallais, C. Pelsser, S. Julien, F. Theoleyre. ["De l'\(in\)utilité du temps-réel pour le calcul d'itinéraire dans les réseaux routiers"](#). Algotel 2019, Saint-Laurent-de-la-Cabrerisse, France, June 2019
- J. Gamba, R. Fontugne, C. Pelsser, R. Bush, E. Aben. ["BGP table fragmentation: what and who?"](#). Rencontres Francophones sur la Conception de Protocoles, l'Évaluation de Performance et l'Expérimentation des Réseaux de Communication, Quiberon, France, May 2017
- D. Hauweele, B. Quoitin, C. Pelsser, R. Bush. ["The Origin of BGP Duplicates"](#). CoRes, Bayonne, France, May 2016
- Thomas Holterbach, Cristel Pelsser, Randy Bush, Laurent Vanbever. ["Quantifying Interference between measurements on the RIPE Atlas platform"](#). Rencontres Francophones sur la Conception de Protocoles, l'Évaluation de Performance et l'Expérimentation des Réseaux de Communication (CoRes 2016)CoRes 2016, Bayonne, France, May 2016
- Cristel Pelsser, Akeo Masuda, Kohei Shiimoto. ["A novel internal BGP route distribution architecture"](#). IEICE General Conference, March 2009
- Cristel Pelsser, Akeo Masuda, Kohei Shiimoto. ["Metrics to Evaluate the Cost of Maintaining Diverse BGP Routes"](#). IEICE General Conference, March 2008
- S. Uhlig, C. Pelsser, B. Quoitin, O. Bonaventure. ["Vers des réflecteurs de routes plus intelligents"](#). Colloque Francophone sur l'Ingénierie des Protocoles (CFIP 2005), Bordeaux, France, March 2005

## RFCs

- Pierre Francois, Bruno Decraene, Cristel Pelsser, Keyur Patel, Clarence Filsfils. ["Graceful BGP Session Shutdown"](#). RFC, March 2018
- Cristel Pelsser, Randy Bush, Keyur Patel, Prodosh Mohapatra, Olaf Maennel. ["Making Route Flap Damping Usable"](#). RFC, May 2014
- Antonio Jose Elizond Armengol, Cristel Pelsser, Bruno Decraene, Zubair Ahmad, Tomonori Takeda, Pierre Francois. ["Requirements for the Graceful Shutdown of BGP Sessions"](#). RFC, April 2011

## IETF Drafts

- Shishio Tsuchiya, Seiichi Kawamura, Randy Bush, Cristel Pelsser. ["Route Flap Damping Deployment Status Survey"](#). Internet Engineering Task Force, June 2012
- Cristel Pelsser. ["Limitations induced by BGP on the computation of interdomain LSPs"](#). Internet Engineering Task Force, October 2004
- Stefaan De Cnodder, Cristel Pelsser. ["Protection for inter-AS MPLS tunnels"](#). Internet Engineering Task Force, July 2004
- Cristel Pelsser, Olivier Bonaventure. ["RSVP-TE extensions for interdomain LSPs"](#). Internet Engineering Task Force, October 2002

## Book chapters

- Michel Beaudouin-Lafon, Céline Chevalier, Gilles Grimaud, Benoit Groz, Philippe Marquet, Mathieu Nancel, Cristel Pelsser, Xavier Redon, Thomas Vantrouys, Emmanuel Waller. ["Numérique et Sciences Informatiques. Terminale spécialité"](#). Hachette Education, March 2022
- Oliver Hohlfeld, Giovane Moura, Cristel Pelsser. ["Passive and Active Measurement: 23rd International Conference, PAM 2022, Virtual Event, March 28--30, 2022, Proceedings"](#). Passive and Active Measurement - 23th International Conference, PAM 2022, March 2022
- Bingjie Fu, Cristel Pelsser, Steve Uhlig. ["Pushing Quality of Service Across Inter-domain Boundaries"](#). End-to-End Quality of Service Engineering in Next Generation Heterogenous Networks, London, UK, November 2008

## Technical reports

- Jean-Romain Luttringer, Thomas Alfroy, Pascal Mérindol, Quentin Bramas, François Clad, Cristel Pelsser. ["Deploying Near-Optimal Delay-Constrained Paths with Segment Routing in Massive-Scale Networks"](#). CoRR, Volume abs/2110.09320, October

2021

- Romain Fontugne, Emile Aben, Cristel Pelsser, Randy Bush. ["Pinpointing Delay and Forwarding Anomalies Using Large-Scale Traceroute Measurements"](#). CoRR, Volume abs/1605.04784, May 2017
- Cristel Pelsser, Mirjam Kuhne, Olaf Maennel, Pradosh Mohapatra, Keyur Patel, Rob Evans Randy Bush. ["RIPE Routing Working Group Recommendations on Route Flap Damping"](#). RIPE, January 2013
- Cristel Pelsser, Olivier Bonaventure. ["Exploring the Trade-offs in Inter-AS LSPs Computation"](#). Technical Report 2005-13, November 2005

## RIPE meetings

- RACI Award ([RIPE80](#)).

Clemens Mosig, Randy Bush, Cristel Pelsser, Thomas C. Schmidt, Matthias Wählisch. ["Route Flap Damping in the Wild"](#). RIPE 80, May 2020.

- RACI Award ([RIPE77](#)).

Florian Streibelt, Franziska Lichtblau, Robert Beverly, Anja Feldmann, Cristel Pelsser, Georgios Smaragdakis, Randy Bush. ["BGP Communities: Even more Worms in the Routing Can"](#). RIPE 77, October 2018.

- RACI Award ([RIPE75](#)).

Juan Brenes, Marcelo Bagnulo, Alberto García-Martínez, Andra Lutu, Cristel Pelsser. ["Power Prefixes Prioritization for Smarter BGP Reconvergence"](#). RIPE 75, October 2017.

- RACI Award ([RIPE74](#)).

Julien Gamba, Romain Fontugne, Cristel Pelsser, Randy Bush, Emile Aben. ["BGP table fragmentation: what & who?"](#). CoRes, Quiberon, France, Mai 2017.

## Patents

- Cristel Pelsser et al. ["System and method for designing iBGP Route Reflection topologies with Next-Hop diversity in the BGP routers."](#) Patent Registration No. [4809824](#) (P2009-147457A), Issued in November 2011.
- Cristel Pelsser et al. ["Method and system for the scalable management of routing information."](#) Patent Registration No. [5022412](#) (P2011-35686A), Issued in February 2011.
- Cristel Pelsser et al. ["Method for the scalable management of routing information."](#) Patent Registration No. [5001966](#) (P2010-199800A), Issued in September 2010.

The original patents are in Japanese. The translated titles are given for information.