

**PUBLICATIONS:****Master's and Ph.D. Theses**

SANSÒ, B., "Contribution à l'étude de la fiabilité et de la sécurité dans un réseau de métro". Master's thesis, Electrical Engineering Department, École Polytechnique de Montréal, 1985.

SANSÒ, B., "Fiabilité et routage dans un réseau de télécommunications". Ph.D. thesis, Applied Mathematics Department, École Polytechnique de Montréal, 1988.

**PUBLISHED OR ACCEPTED JOURNAL ARTICLES:**

1. DEGILA, J., SANSÒ, B., "Topological Optimization of a Yottabit-per-second Lattice Network". Accepted in *IEEE JSAC*, 2004.
2. SANSÒ, B., GIRARD, A., MOBIOT, F., "Integrating Reliability and Quality of Service in Networks with Switched Virtual Circuits". To appear in *Computers and Operations Research*, 2003.
3. TOULOUSE, M., CRAINIC, T., SANSÒ, B., "Systemic Behavior of Cooperative Search Algorithms". Accepted in *Parallel Computing*, 2002.
4. KREIDI, A., SANSÒ, B., "Optimization of an Internationally Distributed Air-ground Airline Telecommunication System". *Computers and Operations Research*, 30, 253–277, 2003.
5. PLANTE, M., SANSÒ, B., "A Typology for Multi-technology, Multi-service Network Synthesis Methods", *Telecommunication Systems*, 19(1), 39–73, 2002.
6. GIRARD, A., SANSÒ, B., DADJO, L., "A Tabu Search Algorithm for Access Network Design", *Annals of Operations Research*, 106, 229–262, 2001.
7. CHAMBERLAND, S., SANSÒ, B., "On the Design of Multitechnology Networks", *INFORMS Journal on Computing*, 13(3), 245–255, 2001.
8. CHAMBERLAND, S., SANSÒ, B., "Topological Expansion of Multiple Ring Metropolitan Area Networks", *Networks*, 36(4), 210–224, 2000.
9. LAROCHELLE, J.-F., SANSÒ, B., "Optimization of the Market-Mix in the Banking Industry", *INFOR*, 38(4), 390–406, 2000.
10. CHAMBERLAND, S., SANSÒ, B., MARCOTTE, O., "Topological Design of Two-Level Telecommunication Networks with Modular Switches", *Operations Research*, 48(4), 745–760, 2000.
11. SANSÒ, B., "Issues in ATM Network Planning – An OR Perspective", in *Telecommunication Network Planning*, Kluwer Academic Publishers, 79–99, 1999.
12. TOULOUSE, M., CRAINIC, T., SANSÒ, B., "An Experimental Study of the Systemic Behavior of Cooperative Search Algorithms", *Methaheuristics : Advances and Trends In Local Search Paradigms for Optimization*, Kluwer Academic Publishers, 373–392, 1999.
13. GENDREAU, M., LAROCHELLE, J.-F., SANSÒ, B., "A Tabu Search Heuristic for the Steiner Tree in Graphs", *Networks*, 162–171, 1999.
14. SANSÒ, B., MILOT, L., "Performability of a Congested Urban Transportation Network when Accident Information is Available", *Transportation Science*, 33, 68–79, 1999.
15. WALKER, B., SANSÒ, B., "Managing Redundancy in a Distributed Computer Network: A State Transition Approach for the Stashing Problem", *Operations Research*, 46(3), 305–315, 1998.
16. GIRARD, A., SANSÒ, B., "Multicommodity Flow Models, Failure Propagation and Reliable Network Design", *IEEE/ACM Transactions on Networking*, 6(1), 82–93, 1998.
17. SANSÒ, B., GIRARD, P., "Instantaneous Power Peak Reduction and Train Scheduling Desynchronization in Subway Systems", *Transportation Science*, 31(4), 312–323, 1997.

18. CHAMBERLAND, S., SANSÒ, B., "Sequential Parallel and Approaches to Incorporate Reliability in the Synthesis of Computer Networks", *Journal of Networks and System Management*, 131–157, 1997.
19. GENDREAU, M., SANSÒ, B., STANFORD, D., "Optimizing Routing in Packet-switched Networks with NonPoisson Offered Traffic", *Telecommunication Systems Modeling, Analysis, Design and Management*, 5, 323–340, 1996.
20. SANSÒ, B., SOUMIS, F., "The Dynamic Predicate Stashing Copy Problem", *Networks*, 23(8), 681–690, 1993.
21. SANSÒ, B., SOUMIS, F., GENDREAU, M., "Centralized and Decentralized Stochastic Routing Models in Telecommunication Networks", *Telecommunication Systems Modelling, Analysis, Design and Management C*, 1, 133–148, 1993.
22. SANSÒ, B., "Fiabilité et planification du transport routier: l'état de l'art", *Les Cahiers scientifiques du transport*, 20 p., 1993.
23. SANSÒ, B., GENDREAU, M., SOUMIS, F., "An Algorithm for Network Dimensioning Under Reliability Considerations", *Annals of Operations Research*, 36, 263–274, 1992.
24. SANSÒ, B., SOUMIS, F., "Communications and Transportation Networks Reliability Using Routing Models", *IEEE Transactions on Reliability*, 29–38, avril 1991.
25. SANSÒ, B., SOUMIS, F., GENDREAU, M., "On the Evaluation of Telecommunication Networks Reliability Using Routing Models", *IEEE Transactions on Communications*, 39(10), 1494–1501, 1991.

#### SUBMITTED JOURNAL PAPERS:

1. NUCCI, A., SANSÒ, B., CRAINIC, T., LEONARDI, E., AJMONE-MARSAN, M., "On the Design of Fault-Tolerant Topologies in Wavelength-Routed Networks Supporting IP-Flows". *JSAC*, 2003.
2. MEDDEB, A., GIRARD, A., SANSÒ, B., F. CARTIER, "The Impact of Switch Cost on the Design of Hybrid Optoelectronic Networks". *Journal of Optical Networks*, 2003.

#### REFEREED PROCEEDINGS PAPERS:

1. MOBIOT, F., SANSÒ, B., GIRARD, A., "A Method for the Integrated Design of Reliable GMPLS Networks". *DRCN Conference (Design of Robust Communication Networks)*, Banff, 2003. **Best paper award**
2. DÉGILA, J., SANSÒ, B., "A Meta Search Procedure for the YottaWeb Nodal Arrangement". Extended abstract, *6<sup>th</sup> INFORMS Telecommunications Conference*, Boca Raton, March 2002.
3. NUCCI, A., SANSÒ, B., CRAINIC, T., LEONARDI, E., AJMONE-MARSAN, M., "Design of Fault-Tolerant Logical Topologies in Wavelength-Routed Optical IP Networks". *Proceedings of Globecom 2001*.
4. GIRARD, A., SANSÒ, B., DADJO, L., "A Heuristic Method for Discrete Capacity Access Network Design", *Proceedings of the 14<sup>th</sup> ITC Specialists Seminar on Access Networks and Synthesis*, Barcelona, 2001.
5. CHAMBERLAND, S., SANSÒ, B., "Overall Design of Reliable IP Networks with Performance Guarantees", *Proceedings of ICC 2000 (International Communication Conference)*, New Orleans, USA, June 2000.

6. MEDDEB, A., GIRARD, A., SANSÒ, B., "Design Model for Minimum Cost Flat Hybrid Optoelectronic Networks", Proceedings of the 5<sup>th</sup> INFORMS Telecommunications Conference, 31–32, Boca Raton, USA, March 2000.
7. CHAMBERLAND, S., SANSÒ, B., "Update of Two-level Networks with Modular Switches", dans *Proceedings of ITC16 (International Teletraffic Conference)*, 1009–1018, Edimburgh, England, June 1999.
8. CHAMBERLAND, S., SANSÒ, B., "Expansion of Multiple Ring MANS", *Proceedings of GlobeCom 98*, Sydney, Australia, 2501–2507, 1998.
9. GIRARD, A., SANSÒ, B., MOBIOT, F., "Reliability and Synthesis of Multirate and ATM Networks – An Integrated Approach", *Proceedings of the 3<sup>rd</sup> INFORMS Telecommunications Meeting*, DOVER-SPIKE, R. and COOPER, R.B. (eds.), Boca Raton, USA, 1998.
10. TOULOUSE, M., CRAINIC, T., SANSÒ, B., "Self-Organization in Cooperative Tabu Search Algorithms", 1998 IEEE International Conference on Systems, Man, and Cybernetics, 11–14 October 1998, San Diego, USA.
11. CHAMBERLAND, S., SANSÒ, B., MARCOTTE, O., "Heuristics for Ring Network Design when Several Types of Switches are Available", *Proceedings of the IEEE International Conference on Communications*, 570–574, 1997.
12. GIRARD, S., SANSÒ, B., MOBIOT, F., "An Integrated Model for Reliability and Synthesis of ATM Networks", *Proceedings of the 2<sup>nd</sup> Workshop on Traffic Management and Synthesis of ATM Networks*, GIRARD, A. and ROSENBERG, C. (eds.), 1997.
13. STEMATE, L., SANSÒ, B., CRAINIC, T.G., "Estimating Possible Impact On Total Delay of Automation Scenarios for A Bottleneck Sub-Network", ITS America, Orlando, USA, October 1996.
14. CHAMBERLAND, S., MARCOTTE, O., SANSÒ, B., "On the Joint Topological, Dimensioning and Location Problem for Broadband Networks", IFIP Broadband 96, pp. 525–536.
15. SANSÒ, B., GIRARD, P., "Optimal Power Peak Reduction Thru Scheduling Desynchronisation in a Subway System", 1995 IEEE/ASME Joint Conference, Baltimore, USA. (**Best paper Award**).
16. CHAMBERLAND, S., SANSÒ, B., "Parallel Algorithms for the Synthesis of Packet Switched Networks", *Proceedings of IEEE International Conference on Communications*, Seattle, USA, 156–160, 1995.
17. GENDREAU, M., LAROCHELLE, J.-F., SANSÒ, B., "A Tabu Search Heuristic for the Steiner Tree Problem", extended abstract (invited), Third ORSA Telecommunications Conference, 20–22 March 1995, Boca Raton, USA.
18. KREIDI, A., SANSÒ, B., "Optimization of a Geographically Distributed AirGround Airline Telecommunications System", *Proceedings of the Third International Conference on Telecommunication Systems*, Nashville, USA, March 1995, 186–187.
19. SANSÒ, B., GIRARD, A., DANG, V., "Multicommodity Flow Models for Robust Network Design", Networks 94, International Network Planning Symposium, Budapest, Hongrie, 1994, 5 p.
20. SANSÒ, B., GIRARD, A., DANG, V., "Performance Models for Reliable Network Design", *Proceedings of the 2<sup>nd</sup> International Conference on Telecommunication System*, GAVISH, B. (ed.), Vanderbilt University, Nashville, USA, March 1994, 211–220.
21. SANSÒ, B., MILOT, L., "A Reliability Model for Urban Transportation Planning", long résumé, Tristan 2, Capri, Italy, 1994, 6 p.
22. GENDREAU, M., SANSÒ, B., STANFORD, D., "An Optimal Routing Model for Packet-Switched Networks with NonPoisson Offered Traffic", extended abstract, First International Telecommunications Systems Conferences, Nashville, USA, March 1993.

23. SANSÒ, B., SOUMIS, F., "Reliability in Transportation", extended abstract, TRISTAN Conference, Montreal, June 1991, 2 p.
24. DESROSIERS, J., DUMAS, Y., DESROCHERS, M., SOUMIS, F., SANSÒ, B., TRUDEAU, P., "A Breakthrough in Air Crew Scheduling", *Proceedings of the Canadian Transportation Research Forum*, Quebec, 28–31 May 1991.
25. SANSÒ, B., MASHEREDJIAN, J., MUKHEDKAR, D., "Total Accident Probability of a Metro System", *Proceedings of the Annual Conference of the Industry Application Society of IEEE*, Chicago, USA, October 1984.
26. SANSÒ, B., MUKHEDKAR, D., SINGH, C., "Reliability Calculations for a Metro System", *Proceedings of the Mexican 1983 Conference of IEEE*, Cuernavaca, Morelos, October 1983.
27. SANSÒ, B., MUKHEDKAR, D., DESNOYERS, G., "Stray Currents Corrosion due to the Metro Operation", *Proceedings of the Mexican 1983 Conference of IEEE*, Cuernavaca, Morelos, October 1983.

**BOOK:**

1. *Performance Evaluation and Planning Methods for the Next Generation Internet*, GIRARD, A., SANSÒ, B., VAZQUEZ-ABAD, F. (eds.), Kluwer Academics, in preparation.
2. *Telecommunication Network Planning*, SANSÒ, B. and SORIANO, P. (eds.), Kluwer Academic, 1998.

**INTERVIEW:**

1. "Next Generation Internet", *Polymag Magazine*, January 2003.

**EDUCATIONAL, RESEARCH AND TECHNICAL REPORTS:****Research and Educational Contributions**

1. SANSÒ, B., "Cours Transmission de Données et Réseaux de communications numériques", electronic slides available at <http://www.crt.umontreal.ca/~bruni/ELE4704>.
2. SANSÒ, B., "Cours de Réseaux de télécommunications", electronic slides available at <http://www.crt.umontreal.ca/~bruni/ELE6706>.
3. SANSÒ, B., "Cours Design et Implantation d'Algorithmes de Recherche Opérationnelle", electronic slides available at <http://www.crt.umontreal.ca/~bruni/MTH6412>.
4. SANSÒ, B., DESROSIERS, J., DESROCHERS, M., DUMAS, Y., "Modeling and Solving Routing and Scheduling Problems Using the GENCOL Software". Manual used as a text book in graduate courses at École Polytechnique, École des HEC, and McGill University, 120 pages, 1990.

**Working Papers and Technical Reports**

5. SANSÒ, B., BODEVIN, F., "Assessing User QoS in a Deployed GPRS Network". Working paper. March 2003. 2<sup>nd</sup> prize for the 2003 CORS (Canadian Operational Research Society) OR Practice Competition.
6. DÉGILA, J., SANSÒ, B., "Design Optimization of a Next Generation Yottabit-per-second Network". *Les Cahiers du GERAD*, G-2003-10, 13 pages, February 2003.

7. DÉGILA, J., SANSÒ, B., "A Survey of Performance Measures and Topologies for High Capacitated Networks", 2003, in preparation.
8. DÉGILA, J., SANSÒ, B., "Joint Optimization and Updating for a High Capacitated Optical Network Topology", 2003, in preparation.
9. DÉGILA, J., SANSÒ, B., "Une procédure de calcul de borne inférieure pour le problème d'arrangement nodal du YottaWeb", 2003, in preparation.
10. SANSÒ, B., "QoS Assessment for GPRS Networks". Final report submitted to Rogers Wireless, November 2002.
11. BODEVIN, F., SANSÒ, B., "User QoS for GPRS Networks", *Les Cahiers du GERAD*, G-2001-42, 2001.
12. LAROCHELLE, J.-F., SANSÒ, B., "A Stochastic Model for the Market-Mix Problem in the Banking Industry", May 2000.
13. CHAMBERLAND, S., SANSÒ, B., "Tabu Search and Post-Optimization Algorithms for the Topological Update of Two-Level Networks with Modular Switches", *Les Cahiers du GERAD*, G-97-71, 1997.
14. PLANTE, M., SANSÒ, B., "Logical Dimensioning of ATM and Multi-technology Networks", *Les Cahiers du GERAD*, G-98-51, 1998.
15. SANSÒ, B., SHA, S., "Dynamic Capacity Allocations of Service Specific Networks in a Shared Environment", Working paper.
16. PLANTE, M., SANSÒ, B., "Dimensioning of ATM and General Multiservice Networks". Available at <http://www.crt.umontreal.ca/~bruni/>.
17. SANSÒ, B., GIRARD, A., DANG, V., "Performance Models for Reliable Network Design", *Les Cahiers du GERAD*, G-94-11, 19 p., 1994.
18. SANSÒ, B., "A Stochastic Routing Model for Telecommunication network Planning". Publication # 657, Centre de recherche sur les transports, Université de Montréal, 26 p., 1992.
19. STEMATE, L., SANSÒ, B., CRAINIC, T., "Integrating Platooning into Urban Transportation Planning", Working paper, Centre de recherche sur les transports, Université de Montréal, 1995.
20. SANSÒ, B., "Desynchronisation et optimisation de la puissance instantanée". 3 technical reports submitted to S.T.C.U.M. Final Report, July 1994.
21. SANSÒ, B., LABERGE-NADEAU, C., APRIL, G.E., "The Yellow Box Project", 15 pages, working paper, 1991.

## TEACHING ACTIVITIES AT ÉCOLE POLYTECHNIQUE DE MONTRÉAL:

### Undergraduate courses

Data Transmission and Numerical Communication Networks;  
Discrete Mathematics;  
Differential Equations;  
Numerical Analysis;  
Engineering Projects;  
Engineering Design;

### Graduate courses

Communication Networks;  
Design and implementation of Operational Research algorithms;

Telecommunication Systems.

## LECTURES:

### Keynote Speaker

1. SANSÒ, B., "OR issues in ATM Networks", Keynote speaker, INFORMS Winter Conference, Cincinnati/Dayton, Ohio, March 1997.

### Plenary Conferences

2. SANSÒ, B., BODEVIN, F., "Assessing user QoS in a Deployed GPRS Networks", CORS OR Practice competition, CORS National Meeting, Vancouver, June 2003.
3. SANSÒ, B., "The Future of Telecommunication Networks", Tutorial, CORS National Meeting, Toronto, Canada, June 2002.
4. SANSÒ, B., "Synthèse et design de réseaux à large-bande", École Nationale Supérieure des Télécommunications, Paris, France, July 2001.
5. SANSÒ, B., "Optimization and Planning of Broadband Networks", Politecnico di Torino, Turin, Italy, May 2001.
6. SANSÒ, B., "Broadband Network Planning", Universidad Simón Bolívar, Caracas, Venezuela, September 2000.
7. SANSÒ, B., "Multiservice Network Planning", WIND Telecommunications, Rome, Italy, June 1999.
8. SANSÒ, B., "Planification de réseaux à large-bande", CERCA, June 1999.
9. SANSÒ, B., "Planification de réseaux à large-bande", Département d'informatique, Université du Québec à Hull, April 1999.
10. SANSÒ, B., "Introduction aux problèmes de planification de réseaux ATM", "Après-midi autour d'un thème", ncm<sub>2</sub> Conferences, April 1998.
11. SANSÒ, B., "OR Issues in ATM Network Design", Telecommunication Network Planning Symposium, CRT, Montreal, Canada, December 1996.
12. SANSÒ, B., "Optimization and Reliability in Telecommunication Networks", 6<sup>e</sup> Forum de collaboration technologique industrie-université, SRTelecom, Montreal, Canada, June 1996.
13. SANSÒ, B., "Fiabilité et routage dans des réseaux de télécommunications", Université d'Ottawa, Ottawa, Canada, June 1991.
14. SANSÒ, B., "An Algorithm for Network Dimensioning to Account for Reliability", Département de génie électrique, University of Toronto, Toronto, Canada, January 1991.
15. SANSÒ, B., "Confiabilidad y diseño de redes de telecomunicaciones", IESA, Caracas, Venezuela, 1990.

### Invited Conferences

16. SANSÒ, B., DEGILA, J., "Network Design Issues for the Next Generation Internet", EURO/INFORMS joint meeting, Istanbul, July 2003.
17. MOBIOT, F., SANSÒ, B., "A model for survivable MPLS/IP networks dimensioning", CORS/SCRO 2002, Toronto, Canada, June 2002.
18. BODEVIN, F., SANSÒ, B., "User QoS for GPRS Networks", CORS/SCRO 2002, Toronto, Canada, June 2002.
19. GIRARD, A., MOBIOT, F., SANSÒ, B. "Multicommodity Flow Models for Reliable ATM Network Synthesis", Optimization Days, May 1999.

20. PLANTE, M., SANSÒ, B. "A Typology of Multiservice Network Dimensioning Methods", Optimization Days, May 1999.
21. JULSAIN, H., SANSÒ, B., SAVARD, G. "Pricing Packet-Switched Networks – A Bilevel Programming Approach", Optimization Days, May 1999.
22. EL-HAFA, M., GIRARD, A., SANSÒ, B. "Design of Core and Broadband Networks with Tree Access Topology", Optimization Days, May 1999.
23. PLANTE, M., SANSÒ, B. "Multiservice Virtual Subnetwork Dimensioning Methods", INFORMS Montreal, April 1998.
24. PLANTE, M., SANSÒ, B. "Allocation dynamique de la largeur de bande pour des réseaux à plusieurs technologies", ACFAS, May 1998.
25. GIRARD, A., SANSÒ, B., MOBIOT, F. "Integrating Reliability in ATM Network Synthesis", 4<sup>th</sup> INFORMS Telecommunication Conference, Boca Raton, Florida, 1998.
26. CHAMBERLAND, S., SANSÒ, B., "Topological Expansion of Multiple Ring Networks", INFORMS Montreal, April 1998.
27. CHAMBERLAND, S., SANSÒ, B., "Hybrid Heuristic for the Topological Update of 2-Level Networks with Modular Switches", INFORMS Montreal, April 1998.
28. LAROCHELLE, J.-F., GENDREAU, M., SANSÒ, B., "A Tabu Search Heuristic for the Steiner Tree Problem", INFORMS Montreal, April 1998.
29. GIRARD, A., SANSÒ, B., MOBIOT, F., "Reliability in ATM Network Synthesis", INFORMS Montreal, April 1998.
30. SANSÒ, B., "Multiservice Virtual Subnetwork Dimensioning Methods", INFORMS Montreal, April 1998.
31. SANSÒ, B., KRAU, S., "ATM Network Design & Reliability", INFORMS San Diego, 1997.
32. SANSÒ, B., "Optimization and Reliability in Telecommunication Networks", 6<sup>e</sup> Forum de collaboration technologique industrie-université, SRT, Montreal, Canada, June 1996.
33. CHAMBERLAND, S., MARCOTTE, O., SANSÒ, B., "Location and Network Design Issues in ATM Networks", invited session on ATM, INFORMS Washington, May 1996.
34. CHAMBERLAND, S., MARCOTTE, O., SANSÒ, B., "Location and Network Design Issues in ATM Networks", Optimization Days, Montreal, Canada, May 1996.
35. GIRARD, A., SANSÒ, B., "Multicommodity Flow Models, Failure Propagation and Reliable Network Design", Optimization Days, Montreal, Canada, May 1996.
36. STEMATE, L., SANSÒ, B., CRAINIC, T.G., "Network Performance and Platoons in Urban Transportation", Optimization Days, Montreal, Canada, May 1996.
37. LAROCHELLE, J.F., SANSÒ, B., "The Optimal Mix-Market Problem Applied to a Large Canadian Bank", Optimization Days, Montreal, Canada, May 1996.
38. GIRARD, A., SANSÒ, B., "Reliability Issues in ATM Network Synthesis", invited session on Telecommunication Networks Planning, INFORMS New-Orleans, October 29–November 1<sup>st</sup> 1995.
39. CHAMBERLAND, S., SANSÒ, B., "A Parallel Algorithm for the Joint Routing and Capacity Assignment Problem Under Reliability Constraints", CORS/Optimization Days, Montreal, Canada, June 1994.
40. SANSÒ, B., "Reliability and Dimensioning in Packet Switching Networks", TIMS/ORSA, Boston, April 1994.
41. SANSÒ, B., MILOT, L., "A Performance Model for Urban Transportation Networks", ORSA/TIMS, Phoenix, Arizona, 1993.

42. GENDREAU, M., SANSÒ, B., STANFORD, D., "Optimizing Routing in PacketSwitched Networks with NonPoisson Offered Traffic", TIMS/ORSA Joint National Meeting and Optimization Days, Montreal, Canada, May 1993.
43. WALKER, B., SANSÒ, B., "Solving the Dynamic Predicate Stashing Copy Problem with a State Graph Approach", Optimization Days, Montreal, Canada, May 1993.
44. GENDREAU, M., SANSÒ, B., STANFORD, D., "A Dimensioning Model for Packet-Switched Networks with Non-Poisson Offered Traffic", ORSA/TIMS, Phoenix, Arizona, 1993.
45. SANSÒ, B., GIRARD, A., "Reliability and Grade of Service in Circuit Switched Networks", ORSA Special Interest Group in Telecommunications, Boca Ratón, Florida, March 1992.
46. SANSÒ, B., GIRARD, A., "Reliability and Grade of Service in Circuit Switched Networks", ICC (International Communication Conference), Chicago, USA, July 1992.
47. SANSÒ, B., GENDREAU, M., STANFORD, D., "A New Routing Model for Packet-Switched Networks with Non-Poisson Traffic", ORSA/TIMS, Orlando, Florida, April 1992.
48. SANSÒ, B., SOUMIS, F., "The Dynamic Predicate Stashing Copy Problem", ORSA/TIMS, Nashville, USA, May 1991.
49. SANSÒ, B., GENDREAU, M., SOUMIS, F., "An Algorithm for Network Dimensioning Under Reliability Considerations", Optimization Days, Montreal, Canada, May 1990.
50. SANSÒ, B., SOUMIS, F., "Modelling Similarities Between Communication and Transportation Networks: Focus on Reliability Evaluation", ORSA/TIMS, Las Vegas, USA, May 1990.
51. SANSÒ, B., CRAINIC, T.G., GENDREAU, M., "Reliability Issues in Transportation Modelling, Part I: Freight Transportation", ORSA/TIMS, Las Vegas, USA, May 1990.
52. SANSÒ, B., GENDREAU, M., "Reliability Issues in Transportation Modelling, Part II: Urban Transportation", ORSA/TIMS, Las Vegas, USA, May 1990.
53. SANSÒ, B., SOUMIS, F., "Modelling Reliability Constraints in Urban Transportation Using Static Equilibrium Models", ORSA/TIMS, Las Vegas, USA, May 1990.
54. SANSÒ, B., CRAINIC, T.G., GENDREAU, M., "Reliability in Freight Transportation Models: An Application", ORSA/TIMS, Las Vegas, USA, May 1990.
55. SANSÒ, B., GENDREAU, M., SOUMIS, F., "Network Design Using Routing Models", ORSA/TIMS Bi-annual Conference, Vancouver, Canada, May 1989.
56. SANSÒ, B., GENDREAU, M., SOUMIS, F., "Routing Models and Applications in Telecommunication Networks", ORSA/TIMS Bi-annual Conference, Denver, USA, October 1988.
57. SANSÒ, B., SOUMIS, F., "Communications and Transportation Networks Reliability using Routing Models", Optimization Days, Montreal, Canada, May 1988.
58. SANSÒ, B., "Routing Models in Telecommunication Networks", Optimization Days, Montreal, Canada, May 1988.
59. SANSÒ, B., "Routing Models in Telecommunication Networks", ORSA/TIMS Bi-annual Conference, Washington, USA, April 1988.

#### Other Conferences

60. SANSÒ, B., GIRARD, A., AWAD. C., "A Comparison Between Differentiated Optical Protection and Differentiated Services Protection". To be presented at the *2004 INFORMS Telecommunications Conference*, Boca Raton, Florida, March 2004.
61. DÉGILA, J., SANSÒ, B., "A Meta Search Procedure for the YottaWeb Topology Nodal Arrangement", *6<sup>th</sup> INFORMS Telecommunications Conference*, 2002.

62. GIRARD, A., SANSÒ, B., MOBIOT, F., "Reliability and Synthesis of Multirate and ATM Networks – An Integrated Approach", extended abstract, 3<sup>rd</sup> INFORMS Telecommunications Meeting, Boca Raton, Florida, March 1998.
63. LAROCHELLE, J.-F., SANSÒ, B., "The Optimal Market-Mix for a Large Canadian Bank", INFORMS San Diego, 1997.
64. GIRARD, A., SANSÒ, B., MOBIOT, F., "Reliable Multi-Rate Boradband Networks Design", Optimization Days, Montréal, Canada, May 1997.
65. GIRARD, A., SANSÒ, B., MOBIOT, F., "An Integrated Model for Reliability and synthesis of ATM Networks", extended abstract, 2<sup>nd</sup> Workshop on Traffic Management and synthesis of ATM Networks", September 1997.
66. CHAMBERLAND, S., SANSÒ, B., MARCOTTE, O., "Heuristics for Ring Network Design when Several Types of Switches are Available", IEEE International Conference on Communications, Montreal, Canada, June 1997.
67. CHAMBERLAND, S., SANSÒ, B., MARCOTTE, O., "Topological Design of Two-Level Telecommunication Networks with Modular Switches", CORS and IEEE Joint Meeting, Ottawa, Canada, May 1997.
68. CHAMBERLAND, S., SANSÒ, B., MARCOTTE, O., "Efficients Heuristics for the Topological Design of Two-Level Telecommunication Network", Optimization Days, Montreal, Canada, May 1997.
69. CHAMBERLAND, S., SANSÒ, B., MARCOTTE, O., "Broadband Switch Location and Dimensioning for Networks with Ring-Star Configuration", IEEE Symposium on Planning and Design of Broadband Networks, Montebello, Canada, October 1996.
70. CHAMBERLAND, S., MARCOTTE, O., SANSÒ, B., "Location and Network Design Issues in ATM Networks", INFORMS Meeting, Washington, USA, May 1996.
71. CHAMBERLAND, S., MARCOTTE, O., SANSÒ, B., "Location and Network Design Issues in ATM Networks", Optimization Days, Montreal, Canada, May 1996.
72. CHAMBERLAND, S., MARCOTTE, O., SANSÒ, B., "On the Joint Topological, Dimensioning and Location Problem for Boradband Networks", International IFIP-IEEE Conference on Boradband Communications, Montreal, Canada, April 1996.
73. CHAMBERLAND, S., SANSÒ, B., "Reliability in Computer Network Synthesis – A Parallel Approach", IEEE International Conference on Communications, Seattle, USA, 1995.
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