
GENERAL INFORMATION

Contact Information

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Biography

Rodrigo Castelan Carlson was born in Florianópolis, Brazil, in 1980. He received the Bel.Eng. degree in Control and Automation Engineering and the Me.Eng. degree in Electrical Engineering from the Federal University of Santa Catarina (UFSC), Brazil, in 2004 and 2006, respectively; the Bachelor's degree in Business Administration from the Santa Catarina State University, Brazil, in 2006; and the degree of Doctor from the Technical University of Crete (TUC), Greece, in 2011.

From 2006 to 2007 he was a Research and Development Engineer with the Department of Automation and Systems Engineering (DAS), UFSC. From 2007 to 2011 he was a Research Assistant with the Dynamic Systems and Simulation Laboratory, TUC. From 2011 to 2012 he was a Postdoctoral Researcher with the DAS, UFSC. From 2012 to 2015 he was an Assistant Professor with the Mobility Engineering Center, UFSC, and from 2015 to 2020 with the DAS at the same university, where he has been an Associate Professor since 2020. In 2020 he was a visiting professor at the University of Canterbury. Since 2013 he is accredited to the post graduate program in Automation and Systems Engineering, from 2017 to 2019 to the post graduate program in Electronic Systems Engineering, and during 2015 to the Post graduate program in Mechanical Engineering and Sciences, all at UFSC, being one of the founders of the latter two. He is the author or co-author of several technical papers in scientific journals and magazines and in scientific conference proceedings in his areas of interest. His research interests include automatic control and optimization applications to traffic and transportation systems. In these areas, he has been serving as a reviewer for several journals and scientific events as well as a consultant for funding agencies, educational institutions and governmental bodies. He also served as associate editor and/or member of scientific/program committee for several conferences, guest editor for journals. Since 2018 he is serving as associate editor for the IET Intelligent Transport Journal and since 2020 as review editor for the Frontiers in Future Transportation.

Dr. Carlson received a scholarship for postgraduate studies abroad from The Capes Foundation, Ministry of Education of Brazil (during 2007–2011) and the Gold Medal of the Young European Arena of Research 2010 in the pillar “Mobility and Intermodality”. In 2017 he was awarded the prize ANPET of Scientific Production in the area of Urban and Freeway Traffic, in 2018 in the area of Transport Management, and in 2019 in the area of Logistics. Since 2015 he holds the status of researcher from The National Council for Scientific and Technological Development (CNPq). He is a member of the National Association of Research and Education in Transport (ANPET) and of the Intelligent Transportation Systems Society (ITSS) of the Institute of Electrical and Electronics Engineers (IEEE).

Research Interests

Control systems, information systems, cooperative systems and optimization applied to traffic and transportation systems, including urban and freeway traffic flow control, traffic modeling, connected vehicles, automated driving, and public transportation systems.

Education

- **Doctor, Production Engineering and Management**, Technical University of Crete, Greece. **Title:** Mainstream traffic flow control on motorways. **Supervisors:** Markos Papageorgiou and Ioannis Papamichail. **Funding:** CAPES Foundation, Ministry of Education of Brazil. (Sep/2007–Sep/2011)
- **Me.Eng., Electrical Engineering**, Federal University of Santa Catarina, Brazil. **Title:** Aplicação de maximização de largura de banda no controle de tráfego urbano em tempo-real. **Supervisors:** Werner Kraus Junior and Eduardo Camponogara. **Funding:** CAPES Foundation, Ministry of Education of Brazil. (Feb/2004–Mar/2006)
- **Diploma, Business Administration**, Santa Catarina State University, Brazil. **Title:** Plano de marketing: Eco Acústica Vibrações e Acústica Ltda. **Supervisor:** Arlindo Carvalho Rocha. (Aug/1998–Dec/2006)
- **Diploma, Control and Automation Engineering**, Federal University of Santa Catarina, Brazil. **Title:** Implementação de algoritmo para controle em tempo real de tráfego urbano. **Supervisor:** Werner Kraus Junior. (Aug/1998–Dec/2003)
- **Elementary and Secondary School**, Colégio de Aplicação, Federal University of Santa Catarina, Brazil. (1987–1997)

Academic Positions

- **Associate Professor**, Department of Automation and Systems, Federal University of Santa Catarina, Brazil. (Jul/2020–present)
- **Visiting Scholar**, Department of Civil and Natural Resources Engineering, College of Engineering, University of Canterbury, New Zealand. **Funding:** CAPES Foundation, Ministry of Education of Brazil. (Dec/2019–Jul/2020)
- **Assistant Professor**, Department of Automation and Systems, Federal University of Santa Catarina, Brazil. (Jul/2015–Jun/2020)
- **Assistant Professor**, Mobility Engineering Center, Federal University of Santa Catarina, Brazil. (Jul/2012–Jun/2015)
- **Post-doctoral Researcher**, Department of Automation and Systems, Federal University of Santa Catarina, Brazil. **Funding:** CAPES Foundation, Ministry of Education of Brazil. (Dec/2011–Jun/2012)
- **Post-doctoral Researcher**, Department of Automation and Systems, Federal University of Santa Catarina, Brazil. **Funding:** The National Council for Scientific and Technological Development (CNPq). (Oct/2011–Nov/2011)
- **Research Assistant**, Dynamic Systems and Simulation Laboratory, Technical University of Crete, Greece. **Funding:** Research Projects. (Sep/2007–Sep/2011)
- **Research & Development Engineer**, Department of Automation and Systems, Federal University of Santa Catarina, Brazil. **Funding:** Privately funded project. (Apr/2006–Aug/2007)

Honors and Awards

- Prize ANPET of Scientific Production (*Prêmio ANPET de Produção Científica*) in the area of Models and Techniques in Transport Planning for paper **C44**. (2020)
- Prize ANPET of Scientific Production (*Prêmio ANPET de Produção Científica*) in the area of Logistics for paper **C43**. (2019)
- Prize ANPET of Scientific Production (*Prêmio ANPET de Produção Científica*) in the area of Transport Management for paper **C39**. (2018)
- Prize ANPET of Scientific Production (*Prêmio ANPET de Produção Científica*) in the area of Urban and Freeway Traffic for paper **C34**. (2017)
- Status of Researcher from The National Council for Scientific and Technological Development (CNPq). (2015–2021)
- Certificate of Excellence in Reviewing, Transportation Research Part C, 2013, Elsevier. (2014)

- Approved, after Public Examination, for the position of Assistant Professor in Engineering at the Department of Automation and Systems, Federal University of Santa Catarina. (Jul/2013)
- Approved, after Public Examination, for the position of Assistant Professor in Automatic Control at the Mobility Engineering Center, Federal University of Santa Catarina. (Jan/2012)
- Gold Medal - Young European Arena of Research - YEAR2010 - Pillar: Mobility and Intermodality, European Commission under the 7th Framework Programme. (2010)

Complimentary Education

- Noções básicas de saúde e segurança no trabalho em tempos de COVID 19, Duration 24 h, Federal University of Santa Catarina. (2020)
- Redação oficial: memorando, ofício, ata e portaria, Duration: 30 h, Federal University of Santa Catarina. (2018)
- Internationalization Initiative – English as a Medium of Instruction, Duration: 12 h, University Studies Abroad Consortium. (2018)
- Resolução N. 018/CUn/2006 - Promoção e Progressão, Duration: 8 h, Federal University of Santa Catarina. (2015)
- Planning of Public Transportation Systems, Duration: 15 h, Federal University of Santa Catarina. (2014)
- Teaching practices with the use of digital media, Duration: 54 h, Federal University of Santa Catarina. (2014)
- Acordo ortográfico e revisão gramatical, Duration: 36 h, Federal University of Santa Catarina. (2014)
- The relation professor-student, Duration: 4 h, Federal University of Santa Catarina. (2014)
- Estágio probatório e progressão funcional docente, Duration: 20 h, Federal University of Santa Catarina. (2013)
- Citation and references: NBR10.520/2002, NBR6023/2002, Duration: 2 h, Federal University of Santa Catarina. (2012)
- Sources of information on-line: The CAPES portal, Duration: 2 h, Federal University of Santa Catarina. (2012)
- Basic Concepts of CAD with Solidworks, Duration: 20 h, Federal University of Santa Catarina. (2012)
- Traffic modelling for traffic management and cooperative systems, Duration: 20 h, Technical University of Delft. (2011)
- 8th Short Course on Dynamic Traffic Flow Modelling and Control, Duration: 30 h, Technical University of Crete. (2008)
- Technological Entrepreneurship, Duration: 36 h, Federal University of Santa Catarina. (2003)
- Automação Para Subestações, Duration: 24 h, Lemag Industrial. (2003)

ACTIVITIES

Teaching Experience

- Federal University of Santa Catarina
 - Automation and Systems Engineering (graduate level)
 - * Foundations of Discrete Mathematics for Control and Automation - DAS410040 (2016/1)
 - * Traffic Modelling and Control - DAS410062 (2015/2, 2016/2)
 - * Modelling for Optimization - DAS410069 (2017/2, 2018/2, 2019/2)
 - Control and Automation Engineering
 - * Foundations of Information Structure - DAS5102 (2015/2, 2016/1, 2016/2, 2017/1, 2017/2, 2018/1, 2018/2, 2019/1, 2019/2, 2020/1)
 - * Industrial Informatics I - DAS5305 (2005/2-lab-ta, 2015/2-lab)

- * Integration Project - DAS5104 (2016/1, 2016/2, 2017/1, 2017/2, 2018/1, 2018/2, 2019/1, 2020/1)
- * Introduction to Informatics for Automation and Control - DAS5334 (2016/2, 2017/1, 2017/2, 2018/1, 2018/2, 2019/1, 2019/2)
- Eletronic Systems Engineering (graduate level)
 - * Scientific Method - ESE410019 (2018/1, 2019/1)
- Mechanical Engineering and Science (graduate level)
 - * Control of Dynamic Systems - ECM410017 (2015/1)
- Mechatronics Engineering
 - * Control Applied to Vehicular Systems - EMB5612 (2013/2, 2014/1, 2014/2, 2015/1)
 - * Digital Control - EMB5602 (2014/1)
 - * Instrumentation - EMB5604 (2012/2, 2013/2)
- Transportation Engineering and Logistics
 - * Traffic Monitoring and Control Systems - EMB5902 (2013/1, 2013/2, 2014/2, 2015/1)
- Interdisciplinary in Mobility, Aerospace Engineering, Automotive Engineering, Mechatronics Engineering, Naval Engineering, Railway Engineering
 - * Introduction to Control Systems - EMB5111 (2013/2, 2014/1, 2014/2, 2015/1)
 - * Systems Modeling - EMB5113 (2012/2)
- Interdisciplinary in Mobility, Aerospace Engineering, Automotive Engineering, Mechatronics Engineering, Naval Engineering, Infrastructure Engineering, Railway Engineering, Transportation Engineering and Logistics
 - * Introduction to Computer Programming - EMB5013 (2012/2, 2013/1-lab)
- College of Engineering, University of Canterbury, New Zealand (guest lecturer)
 - Postgraduate program
 - * Traffic Management and Monitoring - ENTR608 (2020/1)
- Keynes Institute and Faculty of Engineering and Professional and Technical Innovation (invited)
 - Specialization in Engineering of Highway Infrastructure (graduate level)
 - * Intelligent Transportation Systems (Feb/2015 and Mar/2015)

Main Administrative Assignments

- Head of the Department of Automation and Systems, Federal University of Santa Catarina (Nov/2020–Oct-2022)
- Supervisor of the Laboratory of Information and Communication Technology, Department of Automation and Systems, Federal University of Santa Catarina (Aug/2015–Nov/2019)
- Coordinator of the Bachelor of Mechatronics Engineering, Mobility Engineering Center, Federal University of Santa Catarina. (Nov/2014–May/2015)
- Sub-coordinator of the Bachelor of Mechatronics Engineering, Mobility Engineering Center, Federal University of Santa Catarina. (Apr/2014–Nov/2014)

Grants and Projects¹

- Controle do tráfego de veículos automatizados em interseções reconfiguráveis, Funded by The National Council for Scientific and Technological Development (CNPq), R\$ 4,800.00 (*US\$ 1,250.39*), Scholarship for an undergraduate student. (Aug/2019–Jul/2020)
- Repensando o uso da infraestrutura viária na era dos veículos conectados/automatizados, Funded by the Newton Fund/CONFAP/FAPESC, R\$ 15,000.00 (*US\$ 3,896.10*), co-PI with Konstantinos Ampountolas, Research Mobility Grant. (Nov/2018–Oct/2019)
- Controle do tráfego de veículos automatizados em interseções reconfiguráveis, Funded by The National Council for Scientific and Technological Development (CNPq), R\$ 38,000.00 (*US\$ 9,743.59*), PI, Research Grant. (Dec/2018–Nov/2021)

¹Values in US dollars are approximations based on the exchange rates at the date of implementation.

- Controle de redes de tráfego com veículos automatizados e conectados, Funded by The National Council for Scientific and Technological Development (CNPq), R\$ 4,800.00 (*US\$ 1,287.31*), Scholarship for an undergraduate student. (Aug/2018–Jul/2019)
- Comparação de estratégias de controle de tráfego de veículos automatizados, Funded by The National Council for Scientific and Technological Development (CNPq), R\$ 4,800.00 (*US\$ 1,535.62*), Scholarship for an undergraduate student. (Aug/2017–Jul/2018)
- Cooperative and Flexible Public Transportation Systems (CFPTS), Funded by the Newton Fund/CONFAP/FAPESC, R\$ 7,000.00 + £1,500.00 (*US\$ 3,994.00*), co-PI with Kostantinos Ampountolas, Research Mobility Grant. (Mar/2016–Feb/2017)
- Análise e controle em tempo real de sistemas de tráfego urbano com base no diagrama fundamental macroscópico, Funded by The National Council for Scientific and Technological Development (CNPq), R\$ 15,000.00 (*US\$ 6,755.00*), PI, Research Grant. (Dec/2013 – Nov/2016)
- Simulação da monitoração e do controle de tráfego no sistema CONTREAL, Funded by a Private Company, R\$ 66,476.70 (*US\$ 17,577.00*), co-PI with Werner Kraus Junior, Research & Development Grant. (Oct/2015–Mar/2016)
- Espaço de Ciência e Tecnologia UFSC/Joinville, Funded by the Ministry of Education of Brazil, R\$ 149,910.00 (*US\$ 61,896.00*), co-PI with Carlos Mauricio Saccheli and Tatiana Renata Garcia, Educational Grant. (Jan/2014–Dec/2015)
- Efeitos do controle de tráfego urbano em tempo real no diagrama fundamental macroscópico, Funded by The National Council for Scientific and Technological Development (CNPq), R\$ 4,800.00 (*US\$ 2,123.00*), Scholarship for an undergraduate student. (Aug/2013–Jul/2014)

Other Relevant Activities

- Member of the Advisory Committee of Control and Automation Engineering for the 2017 National Student Performance Examination (ENADE 2017), National Institute for Educational Studies and Research “Anísio Teixeira”, Ministry of Education, Brazil.

PUBLICATIONS

Citations

- Web of Science: 480; h-index: 7 (as of August 4, 2020)
- Scopus: 650; h-index: 9 (as of August 4, 2020)
- Google Scholar: 1077; h-index: 11; i10-index: 13 (as of August 4, 2020)

Published Journal Papers

- J16** Keyvan-Ekbatani, M.; Carlson, R. C.; Knoop, V. L.; Papageorgiou, M. Optimizing distribution of metered traffic flow in perimeter control: queue and delay balancing approaches. **Control Engineering Practice**, accepted.
- J15** Souza, F. A. de; Carlson, R. C.; Müller, E. R.; Ampountolas, K. Multi-commodity traffic signal control and routing with connected vehicles. **IEEE Transactions on Intelligent Transportation Systems**, Early Access.[doi](#)
- J14** Eccel, R. A. L.; Carlson, R. C. Analysis of pickup and delivery and dial-a-ride problems: dynamization methods and benchmark instances. **Transportes**, v. 28, n. 4, p. 103–116, 2020. [doi](#)
- J13** Ampountolas, K.; Santos, J. A. dos; Carlson, R. C. Motorway Tidal Flow Lane Control. **IEEE Transactions on Intelligent Transportation Systems**, v. 21, n. 4, p. 1687–1696, 2020. [doi](#)
- J12** Maes, A. de S.; Hoinaski, L.; Meirelles, T. B.; Carlson, R. C. A methodology for high resolution vehicular emissions inventories in metropolitan areas: Evaluating the effect of automotive technologies improvement. **Transportation Research Part D: Transport and Environment**, v. 77, p. 303–319, 2019. [doi](#)
- J11** Paradedá, D. B.; Kraus Jr., W.; Carlson, R. C. Bus passenger counts using Wi-Fi signals: some cautionary findings. **Transportes**, n. 3, v. 27, p. 115–130, 2019. [doi](#)

- J10** Chaves, J. A.; Carlson, R. C.; Müller, E. R.; Kraus Jr., W. Controle do fluxo principal em autoestradas por meio de veículos cooperativos equipados com controle adaptativo de cruzeiro. **Transportes**, n. 3, v. 26, p. 134–144, 2018. [doi](#)
- J9** Marinho, A. T.; Eccel, R. A. L.; Carlson, R. C.; Kraus Jr., W. Calibração do modelo de consumo de combustível do simulador AIMSUN com dados coletados via OBD. **Transportes**, n. 2, v. 26, p. 139–154, 2018. [doi](#)
- J8** Müller, E. R.; Carlson, R. C.; Kraus Jr., W.; Papageorgiou, M. Microsimulation analysis of practical aspects of traffic control with variable speed limits. **IEEE Transactions on Intelligent Transportation Systems**, v. 16, p. 1–12, 2015. [doi](#)
- J7** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Integrated feedback ramp metering and mainstream traffic flow control on motorways using variable speed limits. **Transportation Research Part C: Emerging Technologies**, v. 46, p. 209–221, 2014. [doi](#)
- J6** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Mainstream traffic flow control on freeways using variable speed limits. **Transportes**, v. 21, p. 56–65, 2013. [doi](#)
- J5** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Comparison of local feedback controllers for the mainstream traffic flow on freeways using variable speed limits. **Journal of Intelligent Transportation Systems**, v. 17, p. 268–281, 2013. [doi](#)
- J4** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Local feedback-based mainstream traffic flow control on motorways using variable speed limits. **IEEE Transactions on Intelligent Transportation Systems**, v. 12, p. 1261–1276, 2011. [doi](#)
- J3** Carlson, R. C.; Papamichail, I.; Papageorgiou, M.; Messmer, A. Optimal motorway traffic flow control involving variable speed limits and ramp metering. **Transportation Science**, v. 44, p. 238–253, 2010. [doi](#)
- J2** Carlson, R. C.; Papamichail, I.; Papageorgiou, M.; Messmer, A. Optimal mainstream traffic flow control of large-scale motorway networks. **Transportation Research Part C: Emerging Technologies**, v. 18, p. 193–212, 2010. [doi](#)
- J1** Kraus Jr., W.; de Souza, F. A.; Carlson, R. C.; Papageorgiou, M.; Dantas, L. D.; Camponogara, E.; Kosmatopoulos, E.; Aboudolas, K. Cost effective real-time traffic signal control using the TUC strategy. **IEEE Intelligent Transportation Systems Magazine**, v. 2, p. 6–17, 2010. [doi](#)

Published, Organized or Edited Books

- B1** Cybis, H. B. B.; Fernandes, C. W. N.; Carlson, R. C. (organizers) **Panorama Nacional da Pesquisa em Transportes 2012**. Rio de Janeiro: ANPET, 2012. 2214 p.

Published Book Chapters

- BC1** Papageorgiou, M.; Carlson, R. C.; Papamichail, I.; Messmer, A. Motorway mainstream traffic flow control. **Honorary Volume for Professor George A. Giannopoulos**. Thessaloniki: Aristotelian University of Thessaloniki, 2012, p. 211–215.

Published Full Papers at Conferences, Symposia and Seminars

- C44** LIMA, L. F.; Carlson, R. C.; KRAUS JUNIOR, W. K.; ZIMMERMANN, L.; KOEHLER, L. A. Redução da espera a bordo por controle de intervalo entre ônibus adaptado ao carregamento. In: *34^o Congresso da Associação Nacional de Pesquisa e Ensino em Transportes*, 100% Digital, 2020.
- C43** Eccel, R. A. L.; Carlson, R. C. Problemas dinâmicos de coleta e entrega com janelas de tempo: análise das instâncias de benchmark. In: *33^o Congresso da Associação Nacional de Pesquisa e Ensino em Transportes*, Balneário Camboriú, 2019. [pdf](#)
- C42** Souza, F. A.; Carlson, R. C. Calibração multi-objetivo de modelo de fluxo de tráfego de segunda ordem em rodovias. In: *33^o Congresso da Associação Nacional de Pesquisa e Ensino em Transportes*, Balneário Camboriú, 2019. [pdf](#)
- C41** Lima, L. F.; Kraus Jr., W.; Carlson, R. C.; Zimmermann, L. Controlador realimentado de intervalo entre ônibus com ganho variável de acordo com o carregamento. In: *33^o Congresso da Associação Nacional de Pesquisa e Ensino em Transportes*, Balneário Camboriú, 2019. [pdf](#)

- C40** Ampountolas, K.; Carlson, R. C. Optimal control of motorway tidal flow. In: *18th European Control Conference*, Napoli, 2019. [doi](#)
- C39** Paradedada, D. B.; Kraus Jr., W.; Carlson, R. C. Estimativa de embarque e desembarque de passageiros por detecção de sinal e Wi-Fi de dispositivos móveis. In: *32^o Congresso de Pesquisa e Ensino em Transportes*, Gramado, 2018. [pdf](#)
- C38** Santos, J. A. dos; Baldissera, F. L.; Carlson, R. C.. Verificação formal de estratégia de controle de interseção com veículos automatizados. In: *32^o Congresso de Pesquisa e Ensino em Transportes*, Gramado, 2018. [pdf](#)
- C37** Müller, E. R.; Wahlberg, B.; Carlson, R. C. Optimal motion planning for automated vehicles with scheduled arrivals at intersections. In: *2018 European Control Conference*, Limassol, Cyprus, 2018, p. 1672–1678. [doi](#)
- C36** Ampountolas, K.; Furtado, H. S.; Carlson, R. C. Motorway tidal flow lane control. In: *15th IFAC Symposium on Control in Transportation Systems*, Savona, Italy, 2018, p. 279–284. [doi](#)
- C35** Oliveira, V. A.; Carlson, R. C.; Kraus Jr., W. Método para estimação do tamanho de fila em vias semaforizadas equipadas com laço detector indutivo. In: *XXXI Congresso Nacional de Pesquisa e Ensino em Transportes*, Recife, 2017.
- C34** Chaves, J. A.; Carlson, R. C.; Müller, E. R.; Kraus Jr., W. Controle do fluxo principal em rodovias por meio de veículos cooperativos equipados com controle adaptativo de cruzeiro. In: *XXXI Congresso Nacional de Pesquisa e Ensino em Transportes*, Recife, 2017.
- C33** Keyvan-Ekbatani, M.; Carlson, R. C.; Knoop, V. L.; Papageorgiou, M. Balancing delays and relative queues at the urban network periphery under perimeter control. In: *Transportation Research Board 96th Annual Meeting*, Washington, D.C., 2017. [trid](#)
- C32** Müller, E. R.; Carlson, R. C.; Kraus Jr., W. Cooperative mainstream traffic flow control on freeways. In: *1st IFAC Conference on Cyber-Physical & Human-Systems*, Florianópolis, 2016, p. 89–94. (IFAC-PapersOnLine, v. 49, n. 32.) [doi](#)
- C31** Marinho, A. T.; Carlson, R. C.; Kraus Jr., W. Calibração do modelo de consumo de combustível do simulador de tráfego Aimsun com dados coletados via OBD. In: *XXX Congresso de Pesquisa e Ensino em Transportes*, Rio de Janeiro, 2016, p. 1654–1665.
- C30** Dinanga, E. K.; Carlson, R. C.; Hübner, J. F. Multi agent system approach for emergency response process management. In: *XXX Congresso de Pesquisa e Ensino em Transportes*, Rio de Janeiro, 2016, p. 1614–1625.
- C29** Keyvan-Ekbatani, M.; Carlson, R. C.; Knoop, V. L.; Hoogendoorn, S. P.; Papageorgiou, M. Queuing under perimeter control: analysis and control strategy. In: *19th International IEEE Conference on Intelligent Transportation Systems*, Rio de Janeiro, 2016, p. 1502–1507. [doi](#)
- C28** Müller, E. R.; Carlson, R. C.; Kraus Jr., W. Time optimal scheduling of automated vehicle arrivals at urban intersections. In: *19th International IEEE Conference on Intelligent Transportation Systems*, Rio de Janeiro, 2016, p. 1174–1179. [doi](#)
- C27** Müller, E. R.; Carlson, R. C.; Kraus Jr., W. Intersection control for automated vehicles with MILP. In: *14th IFAC Symposium on Control in Transportation Systems*, Istanbul, 2016, p. 37–42. (IFAC-PapersOnLine, v. 49, n. 3.) [doi](#)
- C26** Müller, E. R.; Carlson, R. C.; Kraus Jr., W. Implementing variable speed limits in the Aimsun microscopic traffic simulator. In: *XXIX Congresso de Pesquisa e Ensino em Transportes*, Ouro Preto, 2015.
- C25** Paradedada, D. B.; Kraus Jr., W.; Carlson, R. C. Implantação de faixas exclusivas para ônibus: efeito da troca modal no tráfego de automóveis. In: *XXVIII Congresso de Ensino e Pesquisa em Transportes*, Curitiba, 2014.
- C24** Müller, E. R.; Carlson, R. C.; Kraus Jr., W.; Papageorgiou, M. Microscopic simulation analysis of mainstream traffic flow control with variable speed limits. In: *16th International IEEE Conference on Intelligent Transportation Systems*, The Hague, 2013, p. 998–1003. [doi](#)
- C23** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Controle integrado de acesso e do fluxo principal em rodovias. In: *XXVII ANPET - Congresso Nacional de Pesquisa e Ensino em Transportes*, Belém, 2013.

- C22** Carlson, R. C.; Manolis, D.; Papamichail, I.; Papageorgiou, M. Integrated ramp metering and mainstream traffic flow control on freeways using variable speed limits. In: *Transport Research Arena 2012*, Athens, 2012. Procedia: Social and Behavioral Sciences, v. 48. p. 1578–1588. [doi](#)
- C21** Carlson, R. C.; Manolis, D.; Papamichail, I.; Papageorgiou, M. Integrated ramp metering and mainstream traffic flow control on freeways using variable speed limits. In: *13th IFAC Symposium on Control in Transportation Systems*, Sofia, 2012, p. 110–115. [doi](#)
- C20** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Controle do fluxo principal de rodovias usando limites de velocidade variáveis. In: *XXVI Congresso Nacional de Pesquisa e Ensino em Transportes*, Joinville, 2012, p. 24–35.
- C19** Müller, E. R.; Carlson, R. C.; Kraus Jr., W. Efeito dos parâmetros do modelo de seguimento veicular do simulador AIMSUN na capacidade em rodovias. In: *XXVI Congresso Nacional de Pesquisa e Ensino em Transportes*, Joinville, 2012, p. 1567–1578.
- C18** Carlson, R. C.; Ragias, A.; Papamichail, I.; Papageorgiou, M. Mainstream traffic flow control of merging motorways using variable speed limits. In: *19th Mediterranean Conference on Control & Automation*, 2011, Corfu, p. 674–681. [doi](#)
- C17** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Local feedback-based mainstream traffic flow control on freeways using variable speed limits. In: *Special International Conference on Complex Systems: Synergy of Control, Communications and Computing*, Ohrid, 2011. p. 187–194.
- C16** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Comparison of local feedback controllers for the mainstream traffic flow on freeways using variable speed limits. In: *14th International IEEE Conference on Intelligent Transportation Systems*, Washington, 2011, p. 2160–2167. [doi](#)
- C15** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Comparação de controladores para o fluxo principal em rodovias com o uso de limites de velocidade variáveis. In: *XXV Congresso de Pesquisa e Ensino em Transportes*, Belo Horizonte, 2011. p. 1054–1065.
- C14** Carlson, R. C.; Papamichail, I.; Papageorgiou, M.; Messmer, A. Variable speed limits as a mainline metering device for freeways. In: *5th International Congress on Transportation Research*, Volos, 2010.
- C13** Papageorgiou, M.; Papamichail, I.; Carlson, R. C.; Messmer, A. Nonlinear optimal control as a source of intelligent traffic control. In: *5th IMA Conference on Mathematics in Transport*, London, 2010.
- C12** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Local feedback-based mainstream traffic flow control on freeways using variable speed limits. In: *13th International IEEE Conference on Intelligent Transportation Systems*, Funchal, 2010. [doi](#)
- C11** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Controle realimentado local do fluxo principal em rodovias com o uso de limites de velocidade variáveis. In: *XXIV Congresso Nacional de Pesquisa e Ensino em Transportes*, Salvador, 2010.
- C10** Carlson, R. C.; Papamichail, I.; Papageorgiou, M.; Messmer, A. Variable speed limits as a mainline metering device for freeways. In: *89th Annual Meeting of the Transportation Research Board*, Washington, D. C., 2010
- C9** Carlson, R. C.; Papamichail, I.; Papageorgiou, M.; Messmer, A. Optimal mainstream traffic flow control of motorway networks. In: *European Control Conference 2009*, Budapest, 2009. [url](#)
- C8** Carlson, R. C.; Papamichail, I.; Papageorgiou, M.; Messmer, A. Optimal mainstream traffic flow control of motorway networks. In: *12th IFAC Symposium on Control in Transportation Systems*, Redondo Beach, 2009. [doi](#)
- C7** Papageorgiou, M.; Carlson, R. C.; Papamichail, I.; Messmer, A. Optimal mainstream traffic flow control of large-scale motorway networks. In: *Models and Technologies for Intelligent Transportation Systems*, Rome, 2009, p. 66–73.
- C6** Carlson, R. C.; Lueders, C. E.; Dantas, L. D. PYBAND: um aplicativo multi-plataforma para a coordenação de vias arteriais semaforizadas. In: *XXI Congresso Nacional de Pesquisa e Ensino em Transportes*, Rio de Janeiro, 2007.
- C5** Rocha, A. C.; Carlson, R. C.; Araújo, T. S. Análise comparativa de metodologias para elaboração de planos de marketing: introdução a uma proposta direcionada às micro e pequenas empresas. In: *Congresso Virtual Brasileiro de Administração*, 2007.

- C4** Carlson, R. C.; Kraus Jr., W.; Camponogara, E. Combining the TUC urban traffic control strategy with bandwidth maximisation. In: *11th IFAC Symposium on Control in Transportation Systems*, Delft, 2006. [doi](#)
- C3** Camponogara, E.; Carlson, R. C.; Kraus Jr., W.; Moreira, G. A probing look into cutting-plane algorithms for bandwidth maximization. In: *11th IFAC Symposium on Control in Transportation Systems*, Delft, 2006. [doi](#)
- C2** Carlson, R. C.; Kraus Jr., W.; Camponogara, E. Aplicação de maximização de largura de banda no controle de tráfego urbano em tempo-real. In: *XX Congresso de Pesquisa e Ensino em Transportes*, Brasília, 2006.
- C1** Carlson, R. C.; Kraus Jr., W. Controle semafórico sem bloqueio com prioridade para transporte coletivo urbano. In: *X Congresso Chileno de Ingeniería de Transportes*, Concepción, 2001.

Published Abstracts and Extended Abstracts at Conferences, Symposia and Seminars

- A17** Ampountolas, K.; Carlson, R. C. A kinematic wave theory of tidal traffic flow. In: *2nd Symposium on Management of Future motorway and urban Traffic Systems (MFTS 2018)*, Ispra, 2018. [doi](#)
- A16** Furtado, H. S.; Carlson, R. C. Plataforma para a avaliação de estratégias de controle de interseções automatizadas. In: *XXXI Congresso Nacional de Pesquisa e Ensino em Transportes*, Recife, 2017.
- A15** Santos, J. A. dos; Furtado, H. S.; Carlson, R. C.. Inserção do tráfego de veículos automatizados oriundos de rampas de acesso em rodovias. In: *XXXI Congresso Nacional de Pesquisa e Ensino em Transportes*, Recife, 2017.
- A14** Eccel, R. A. L.; Carlson, R. C. Avaliação de estratégias de espera e realocação para problemas dinâmicos de coleta e entrega com janelas de tempo. In: *XXXI Congresso Nacional de Pesquisa e Ensino em Transportes*, Recife, 2017.
- A13** Müller, E. R.; Carlson, R. C.; Kraus Jr., W. Mixed-integer linear programming modeling for the control of automated vehicles through intersections. In: *1st Symposium on Management of Future Motorway and Urban Traffic Systems*, Chania, 2016. [url](#)
- A12** Souza, F. A. de; Carlson, R. C.; Müller, E. R.; Kraus Jr., W. Optimal urban traffic signal control and route guidance based on the store-and-forward model. In: *1st Symposium on Management of Future Motorway and Urban Traffic Systems*, Chania, 2016. [url](#)
- A11** Jurask, G.; Carlson, R. C. Efeitos do controle de tráfego urbano no diagrama fundamental macroscópico. In: *XXVIII Congresso de Ensino e Pesquisa em Transportes*, Curitiba, 2014.
- A10** Kollross, A.; Delatorre, R. G.; Cunha, T. V.; Carlson, R. C. Desenvolvimento de aparelho de baixo custo para a técnica de spin coating. In: *24^o Seminário de Iniciação Científica da UFSC*, Florianópolis, 2014.
- A9** Jurask, G.; Carlson, R. C. Efeitos do controle de tráfego urbano no diagrama fundamental macroscópico. In: *24^o Seminário de Iniciação Científica da UFSC*, Florianópolis, 2014.
- A8** Bonfanti, S.; Medeiros, L.; Hoepers, N.; Carlson, R. C. Sistemas urbanos em Joinville: transporte de pessoas. In: *3^o Seminário de Iniciação Científica do Ensino Médio da UFSC*, Florianópolis, 2013.
- A7** Müller, E. R.; Carlson, R. C.; Kraus Jr., W. Avaliação em ambiente de microsimulação de controladores para fluxo principal em rodovias. In: *XXVI Congresso Nacional de Pesquisa e Ensino em Transportes*, Joinville, 2012, p. 1519–1522.
- A6** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. Local feedback-based mainstream traffic flow control on motorways using variable speed limits. In: *NEARCTIS 3rd Workshop: towards new research area in co-operative traffic management*, Lausanne, 2010.
- A5** Carlson, R. C.; Papamichail, I.; Papageorgiou, M. A local feedback controller for mainstream traffic flow control using variable speed limits. In: *Young European Arena of Research 2010*, Brussels, 2010. [pdf](#)
- A4** Papageorgiou, M.; Carlson, R. C.; Papamichail, I.; Messmer, A. Optimal mainstream traffic flow control of motorway networks. In: *13th EURO Working Group on Transportation Meeting*, Padua, 2009.

- A3** Carlson, R. C.; Kraus Jr., W.; Camponogara, E. Controle de tráfego em tempo real com maximização de banda. In: *XIX Congresso Nacional de Pesquisa e Ensino em Transportes*, Recife, 2005.
- A2** Carlson, R. C.; Dantas, L. D. Desenvolvimento de uma central de tráfego. In: *III Semana de Pesquisa e Extensão da Universidade Federal de Santa Catarina*, Florianópolis, 2003.
- A1** Carlson, R. C.; Kraus Jr., W. Controle semaforico automatizado: Aplicação em transporte coletivo urbano. In: *I Encontro Nacional de Estudantes de Engenharia de Controle e Automação*, Florianópolis, 2001.

Technical Reports

- R2** Mikowski, A.; Fernandes, C. W. N.; Casali, R. M.; Carlson, R. C. Complimentary expert report for public civil action N^o 5013717-53.2012.404.7201/SC, Federal Court of Justice of Brazil, 2013.
- R1** Mikowski, A.; Fernandes, C. W. N.; Casali, R. M.; Carlson, R. C. Expert report for public civil action N^o 5013717-53.2012.404.7201/SC, Federal Court of Justice of Brazil, 2013.

Invited Talks

- T5** Carlson, R. C. Veículos Autônomos (?). Instituto Federal de Santa Catarina, 2020.
- T4** Carlson, R. C. Autonomous Vehicles (?). University of Canterbury, 2020.
- T3** Carlson, R. C. Veículos Autônomos (?). XXVII Seminário de Informática e Computação - SEM-INCO, 2019.
- T2** Carlson, R. C.; Taglialha, S. L. S. A política nacional de mobilidade urbana e o plano de mobilidade. Secretaria de Desenvolvimento Regional de Joinville, 2014.
- T1** Carlson, R. C. Mainstream Traffic Flow Control on Motorways Using Variable Speed Limits. *Dynamisch Verkeersmanagement in België: meer halen uit variabele snelheidslimieten?* (Dynamic Traffic Management in Belgium: can we take more out of variable speed limits?). Workshop within the 2nd International Conference on Models and Technologies for ITS, 2011.

Software

- S8** Carlson, R. C.; Correa, T. iTUCAIMSUN: a TUC strategy interface for AIMSUN, 2008.
- S7** Souza, F. A.; Dantas, L. D.; Kraus Jr., W.; Carlson, R. C.; Camponogara, E. CONTREAL: a real-time traffic control software center, 2008.
- S6** Carlson, R. C.; TUC module: a wrapped module of the TUC strategy for use of source code in C with Python, 2007.
- S5** Carlson, R. C.; Lueders, C. E.; Dantas, L. D. PyBand: a bandwidth maximization software, 2007.
- S4** Arantes, V. T. P.; Cuareli, F. H.; Carlson, R. C. An application for the study of the perception and production of final obstruents by Brazilian children studying English, 2006.
- S3** Carlson, R. C.; TUCInterface: a TUC strategy interface for SITRA-B+, 2005.
- S2** Carlson, R. C.; Dantas, L. D.; Kraus Jr., W. A Fixed-time Plan Software Center, 2003.
- S1** Carlson, R. C.; SyncSimula: an interface for the use of real-time traffic control strategies with SITRA-B+, 2000.

Technological Products

- P1** Carlson, R. C.; Silveira, A. N.; Carlson, L. H. C. Digital display for a vacuum gauge with serial interface for on-off control of a vacuum pump through microcomputer, 2003.

Interviews, Round Tables, Press and Media

- I3** Carlson, R. C. Sinal verde para quem precisa. **Revista da Fundação de Amparo à Pesquisa e Extensão Universitária**, Florianópolis, FAPEU, v. 9, ano IX, n. 9, p. 24, 2016. Interviewed by Dauro Veras. [url](#)

I2 Calil, L. F. P.; Carlson, R. C.; Dantas, L. H.; Harger, W.; Medeiros, G.; Viana, E. A. Mesas Preparatórias aos Seminários de Mobilidade Urbana - Conselho Regional de Joinville, Round Table, 2014.

I1 Carlson, R. C. and others. Via Expressa em discussão. **Floripa é**, Florianópolis, RIC, n. 3, p. 28–30, Mar/2014. Interviewed by Marco Túlio Brüning. [url](#)

EDITORSHIP, REVIEWING, EVALUATIONS AND EXAMINATIONS

Associate Editor for Journals

- IET Intelligent Transport Systems (2018–)

Review Editor for Journals

- Frontiers in Future Transportation (2020–)

Guest Editor for Journals

- Frontiers Research Topic on Enabling Modern Urban and Motorway Traffic Systems Through Modelling and Control — Frontiers in Future Transportation, Frontiers — with Silvia Siri, Shu Lin and Monica Menendez (2021)
- Special Issue on Management of Future Motorway and Urban Traffic Systems — Transportation Research Part C: Emerging Technologies, v. 96, p. 1–2, Elsevier — with Claudio Roncoli, Nikolaos Bekiaris-Liberis, and Nikolas Geroliminis (2018) [doi](#)
- Special Issue on Emerging Information and Communication Technologies for Traffic Estimation and Control — Journal of Advanced Transportation, v. 2018, Article ID 8498054, Wiley-Hindawi — with Anastasios Kouvelas, Andy Chow, Eric Gonzales, and Mehmet Yildirimoglu (2018) [doi](#)

Reviewer for Journals

- Applied Mathematical Modelling (2010)
- Automatica (2019–2021)
- Canadian Journal of Civil Engineering (2017)
- Communications in Nonlinear Science and Numerical Simulation (2016–2017)
- Complexity (2020)
- Discrete Dynamics in Nature and Society (2020)
- Frontiers of Information Technology & Electronic Engineering (2016)
- IEEE Access (2020)
- IEEE Transactions on Automation Science and Engineering (2019–2020)
- IEEE Transactions on Intelligent Transportation Systems (2011–2020)
- IEEE Transactions on Intelligent Vehicles (2016–2018)
- IEEE Intelligent Transportation Systems Magazine (2012, 2015, 2018–2020)
- IET Intelligent Transport Systems (2010, 2012–2014, 2017–2020)
- IET Science, Measurement & Technology (2018)
- International Journal of Computational Intelligence Systems (2012)
- Journal of Advanced Transportation (2014, 2019)
- Journal of Intelligent Transportation Systems: Technology, Planning, and Operations (2011, 2016)
- Journal of Traffic and Transportation Engineering (English Edition) (2017)
- Transport (2016)
- Transportmetrica A: Transport Science (2017–2018)
- Transport Reviews (2011, 2014–2015, 2017)

- Transport Policy (2015)
- Transport Problems: an International Scientific Journal (*Problemy Transportu*) (2016)
- Transportation Letters: the International Journal of Transportation Research (2020)
- Transportation Research Part B: Methodological (2014–2015, 2017)
- Transportation Research Part C: Emerging Technologies (2008–2016, 2018, 2020,2021)
- Transportation Research Record: Journal of the Transportation Research Board (2018–2019)
- Transportation Science (2010)
- Transportes (2014–2017, 2019–2020)

Reviewer for Conferences, Symposia and Seminars

- American Control Conference - ACC (2016, 2017)
- Annual IEEE International Conference on Automation Science and Engineering - CASE (2013, 2015, 2017)
- Congresso Brasileiro de Automática - CBA (2008)
- Congresso Nacional de Pesquisa e Ensino em Transportes - ANPET (2011–2018)
- Congreso Panamericano de Ingeniería de Tránsito, Transporte y Logística - PANAM (2012)
- European Control Conference - ECC (2013–2016, 2018, 2020)
- IEEE Conference on Decision and Control - CDC (2014–2015,2020)
- IEEE Intelligent Vehicles Symposium - IV (2011, 2017)
- IEEE International Conference on Advanced Intelligent Mechatronics - AIM (2016)
- IEEE Conference on Control Technology and Applications - CCTA (2019, 2020)
- IEEE International Conference on Intelligent Transportation Systems - ITSC (2006–2011, 2013–2020)
- IFAC Conference on Cyber-Physical & Human-Systems - CPHS (2016)
- IFAC Symposium on Control in Transportation Systems - CTS (2012, 2016, 2018, 2021)
- IFAC Symposium on Robust Control Design - ROCOND (2009)
- International Conference on System Theory, Control and Computing - ICSTCC (2017)
- International Conference on Vehicle Technology and Intelligent Transport Systems - VEHITS (2018–2021)
- Mediterranean Conference on Control and Automation - MED (2013)
- Seminário Integrado de Software e Hardware - SEMISH (2008)
- Simpósio Brasileiro de Automação Inteligente - SBAI (2007)
- Transportation Research Board (TRB) Annual Meeting (2012–2019)
- World Congress of the International Federation of Automatic Control (2011, 2014)

Evaluator of Research Proposals and Projects

- Federal Institute of Santa Catarina (2015–2018)
- Fundação de Amparo à Pesquisa e Inovação do Estado de Santa Catarina - FAPESC (2013, 2017, 2018, 2019)
- Netherlands Organisation for Scientific Research (2018)
- METRANS Transportation Center (2019–2020)
- Ministry of Education of Brazil (2015)

Examiner of Doctoral Dissertations

- Camponogara, E.; Ehrhardt, M. A. D.; Francisco, J. de B.; Carlson, R. C. Evaluation committee of Caio Merlini Giuliani, Contributions to derivative-free optimization: an exact penalty method and decompositions for distributed control, Automation and Systems Engineering, Federal University of Santa Catarina. (2019)

- Papamichail, I.; Papageorgiou, M.; Nikolos, I.; Delis, A.; Marinakis, Y.; Carlson, R. C.; Roncoli, C. Evaluation committee of Georgia-Roumpini Iordanidou, Traffic flow control on motorways for throughput maximization, School of Production Engineering and Management, Technical University of Crete. (2017)
- Coelho, A. A. R.; Barra Junior, W.; Yoneyama, T.; Simas, H.; Moreno, U. F. Carlson, R. C.; Silveira, H. B. Evaluation committee of Rejane de Barros Araújo, Controladores preditivos filtrados utilizando otimização multiobjetivo para garantir offset-free e robustez, Automation and Systems Engineering, Federal University of Santa Catarina. (2017)

Examiner of Doctoral Qualifying Exams

- Carlson, R. C.; Bezerra, E. A.; Farines, J.-M. A. Evaluation committee of Diego Câmara Sales de Pontes e Sousa, Evolução da arquitetura de sistemas: uma abordagem baseada em dispositivos COTS (2nd round), Automation and Systems Engineering, Federal University of Santa Catarina. (2019)
- Carlson, R. C.; Bezerra, E. A.; Farines, J.-M. A. Evaluation committee of Diego Câmara Sales de Pontes e Sousa, Evolução da arquitetura de sistemas: uma abordagem baseada em dispositivos COTS (1st round), Automation and Systems Engineering, Federal University of Santa Catarina. (2019)
- Carlson, R. C.; Coelho, A. H.; Moreno, U. F. Evaluation committee of Lucas Zimmermann, Controle operacional em tempo real para transporte coletivo urbano, Automation and Systems Engineering, Federal University of Santa Catarina. (2018)
- Carlson, R. C.; Trierweiler, J. O.; Silveira, H. B. Evaluation committee of Marco Aurélio Schmitz de Aguiar, Distributed optimal control of nonlinear dynamic networks, Automation and Systems Engineering, Federal University of Santa Catarina. (2017)
- Carlson, R. C.; Loureiro, A. A. F.; Zeferino, C. A. Evaluation committee of Renê da Rosa Oliveira, Uma abordagem baseada em controle consensual e comunicação confiável para pelotões veiculares, Automation and Systems Engineering, Federal University of Santa Catarina. (2017)
- Stemmer, M. R.; Moreira, M. V. de B.; Leal, A. B.; Carlson, R. C.. Evaluation committee of Rodrigo Szpak, Método de implementação do controle supervisório modular local temporizado em controladores lógicos programáveis, Automation and Systems Engineering, Federal University of Santa Catarina. (2017)
- Carlson, R. C.; Valente, A. M.; Cybis, H. B. B. Evaluation committee of Diego Benites Paradedda, Modelo de quatro etapas: método de atualização de um modelo existente baseado em novas fontes de dados, Automation and Systems Engineering, Federal University of Santa Catarina. (2017)
- Castelan Neto, E. de B.; Carlson, R. C.; Francisco, J. de B.; Almeida, K. C. de. Evaluation committee of Caio Merlini Giuliani, Distributed derivative free optimization, Automation and Systems Engineering, Federal University of Santa Catarina. (2016)

Examiner of Master Theses

- Queiroz, M. H. de; Simas, H.; Carlson, R. C.; Cabral, F. G. de O. Evaluation committee of Carolina Rutili de Lima, Controle Supervisório de um Sistema de Patrulhamento Multirrobo com Arquitetura Deliberativa/Reativa, Automation and Systems Engineering, Federal University of Santa Catarina. (2019)
- Carlson, R. C.; Fournier, S.; Seman, L. O.; Camponogara, E. Evaluation committee of Renan Artur Lopes Eccel, Problemas dinâmicos de coleta e entrega com janelas de tempo: análise de instâncias de benchmark, Automation and Systems Engineering, Federal University of Santa Catarina. (2019)
- Roqueiro, N.; Simas, H.; Moreno, U. F. Carlson, R. C.. Evaluation committee of Myagyh Augusto Pires Miranda, Metodologia de modelagem matemática automática: um estudo de caso em um veículo individual compacto, Automation and Systems Engineering, Federal University of Santa Catarina. (2019)
- Carlson, R. C.; Silveira, H. B.; Oliveira, M. L. C.; Kraus Jr., W. Evaluation committee of Jéssica Aquino Chaves, Controle do fluxo principal em rodovias por meio de veículos equipados com controle adaptativo de cruzeiro, Automation and Systems Engineering, Federal University of Santa Catarina. (2018)

- Carlson, R. C.; Silveira, H. B.; Baldissera, F. L.; Kraus Jr., W. Evaluation committee of Henrique Salvaro Furtado, Evaluation of automated intersection control strategies for automated vehicles, Automation and Systems Engineering, Federal University of Santa Catarina. (2017)
- Carlson, R. C.; Dantas, L. D.; Moreno, U. F.; Coutinho, D. F. Evaluation committee of Vinícius Araujo de Oliveira, Estimador de fila em vias semaforizadas utilizando detector a laço indutivo, Automation and Systems Engineering, Federal University of Santa Catarina. (2017)
- Camponogara, E.; Duarte, A. C.; Coutinho, D. F.; Carlson, R. C. Evaluation committee of Ricardo Santos da Silva, A distributed dual algorithm for distributed MPC of linear dynamic networks, Automation and Systems Engineering, Federal University of Santa Catarina. (2017)
- Silveira, H. B. S.; Simas, H.; Trofino Neto, A.; Carlson, R. C. Evaluation committee of Leandro Yoshio Morita, Controladores de rastreamento de ângulo de esterço e velocidade de um veículo inclinável de três rodas, Automation and Systems Engineering, Federal University of Santa Catarina. (2016)
- Coelho, A. A. R.; Gomes, F. J.; Simas, H.; Carlson, R. C. Evaluation committee of Edwin Calla Durandal, Avaliação de desempenho e sintonia de controladores livre de modelo: projetos e simulações, Automation and Systems Engineering, Federal University of Santa Catarina. (2016)
- Kraus Jr., W.; Coelho, A. H.; Camponogara, E.; Carlson, R. C. Evaluation committee of Lucas Zimmermann, Controle de intervalos entre ônibus: comparação entre métodos realimentados clássicos e controle preditivo, Automation and Systems Engineering, Federal University of Santa Catarina. (2016)
- Camponogara, E.; Plucenio, A.; Queiroz, M. H. de; Carlson, R. C.; Mayerle, S. F. Evaluation committee of Lauvir Ramos Neto, Modelos quadráticos por partes para otimização da produção de campos de petróleo e gás, Automation and Systems Engineering, Federal University of Santa Catarina. (2016)
- Kraus Jr., W.; Valle, O. T.; Montez, C. B.; Carlson, R. C. Evaluation committee of Ângelo dos Santos Melo, Identificação de passageiros do transporte público usando *smartphones* e *bluetooth*, Automation and Systems Engineering, Federal University of Santa Catarina. (2016)
- Kraus Jr., W.; Koehler, L. A.; Castelan, E. B.; Carlson, R. C. Evaluation committee of Vinícius Berndsen Peccin, Modelagem e estimação de filas para o controle de interseções urbanas semaforizadas, Automation and Systems Engineering, Federal University of Santa Catarina. (2013)
- Kraus Jr., W.; Moreno, U. F.; Koehler, L. A.; Carlson, R. C.; Castelan, E. B. Evaluation committee of Felipe Sanches Gurgel, Localização e estimação de chegada de ônibus urbano utilizando filtros de Kalman, Automation and Systems Engineering, Federal University of Santa Catarina. (2012)
- Camponogara, E.; Kraus Jr, W.; Coelho, A. A. R.; Carlson, R. C.; Oliveira, R. S. Evaluation committee of Felipe Augusto de Souza, Controle preditivo distribuído aplicado ao controle de tráfego veicular urbano, Automation and Systems Engineering, Federal University of Santa Catarina. (2012)

Examiner of Diploma Theses

-
- F. L. Baldissera; F. Weber; R. C. Carlson; H. B. Silveira. Evaluation committee of Matheus Barreto Nunes de Aguiar, Desenvolvimento de softwares para o ecossistema do Turismo Brasileiro, Control and Automation Engineering, Federal University of Santa Catarina. (2020)
 - Oliveira, M. De L. C. de; Simas, H.; Pinto, T. L. F. da C.; Carlson, R. C.. Evaluation committee of Daniel Juchem Regner, Camera gimbal control system to track an object detected on image, Control and Automation Engineering, Federal University of Santa Catarina. (2020)
 - Silveira, H. B.; Neves, P. H. F. Carlson, R. C.; Andrade, G. A. G.; Menezes, V. C.; Santos, M. R. M. dos. Evaluation committee of Ricardo Carvalho Frantz do Amaral, Planejamento, desenvolvimento e implementação de API para aplicativo para supervisão de escolas de música, Control and Automation Engineering, Federal University of Santa Catarina. (2018)
 - Rabelo, R. J.; Carlson, R. C.; Souza, G. M. de; Heizen, J. H. R. Evaluation committee of Matheus Alberto Ambrosi, Desenvolvimento de uma ferramenta de gestão de relacionamento com o cliente para pós-venda, Control and Automation Engineering, Federal University of Santa Catarina. (2018)

- Rabelo, R. J.; Costa, O. G.; Carlson, R. C.; Damke, J. C. P.; Ambrosi, M. A. Evaluation committee of João Henrique Renon Heinzen, Desenvolvimento de um sistema para avaliar o desempenho de colaboradores para uma diretoria de recursos humanos, Control and Automation Engineering, Federal University of Santa Catarina. (2018)
- Rabelo, R. J.; Pelegrino, L.; Carlson, R. C.; Amaral, C. J.; Felipini, H. E.; Andreus, P. P. Evaluation committee of Leonardo Schevz de Werk, Desenvolvimento de plataforma online de doações baseada em uma DDD, Event Sourcing e CQRS, Control and Automation Engineering, Federal University of Santa Catarina. (2018)
- Silveira, H. B.; Camponogara, E.; Carlson, R. C.; Simas, H.; Galvani, W. de M.; Bortolozo Junior, W. A. Evaluation committee of Angelo Frigeri Araujo, Congestion mitigation in freeways using optimal control, Control and Automation Engineering, Federal University of Santa Catarina. (2018)
- Hoinaski, L.; Franco, D.; Carlson, R. C.. Evaluation committee of Tiago Barros Meirelles, *Title?*, Sanitary and Environmental Engineering, Federal University of Santa Catarina. (2017)
- Rico, J. E. N.; Kraus Junior, W.; Carlson, R. C.; Moreno, U. F.; Morato, M. M.; Aldeyturriaga, R. de O. G. Evaluation committee of Augusto José Toso, Imputação da ocupação de vias em redes de tráfego urbano por meio de máquinas de vetores de suporte por mínimos quadrados, Control and Automation Engineering, Federal University of Santa Catarina. (2017)
- Silveira, H. B.; Lóssio, R. G.; Carlson, R. C.; Silva, F. L. dos S. e; Meurer, R. S. Evaluation committee of Luana de Oliveira Pereira, Desenvolvimento de uma ferramenta para automação de relatórios de agência de marketing, Control and Automation Engineering, Federal University of Santa Catarina. (2017)
- Berkenbrock, G. R.; Carlson, R. C.; Jaskowiak, P. A. Evaluation committee of Camila Feliciano, Indicadores para avaliação de medidas de desempenho da rede semafórica de Joinville através de simulação, Transportation Engineering and Logistics, Federal University of Santa Catarina. (2016)
- Berkenbrock, G. R.; Carlson, R. C.; Isler, C. A. Evaluation committee of Ana Paula Nunes Duarte, Análise da confiabilidade do tempo de viagem do transporte público por ônibus em Joinville/SC através de simulação, Transportation Engineering and Logistics, Federal University of Santa Catarina. (2016)
- Normey-Rico, J. E.; Cordeiro, A.; Bezerra, E. A.; Carlson, R. C.; Schüler, R. H.; Resmini, T. N. Evaluation committee of Antonio Adalberto Duarte Junior, Desenvolvimento de aplicação para controle de dispositivos via rádio frequência, Control and Automation Engineering, Federal University of Santa Catarina. (2016)
- Normey-Rico, J. E.; Costa, D. de S.; Becker, L. B.; Carlson, R. C.; Silva, F. O. da; Duarte Junior, A. A. Evaluation committee of Tiago Nunes Resmini, Sistema para avaliação de indicadores voltado para times de desenvolvimento de produtos de software, Control and Automation Engineering, Federal University of Santa Catarina. (2016)
- Silveira, H. B.; Silva, C. M.; Becker, L. B.; Carlson, R. C.; Borges, R. B. G.; Jara, V. R. S. Evaluation committee of Lucas Caldeira de Oliveira, Desenvolvimento da lógica programável de um receptor de rádio, Control and Automation Engineering, Federal University of Santa Catarina. (2016)
- Silveira, H. B.; Krawczyk, V.; Becker, L. B.; Carlson, R. C.; Oliveira, L. C.; Borges, R. B. G. Evaluation committee of Tatiana Beber Kassick, Development of an embedded system for a platelet illumination device, Control and Automation Engineering, Federal University of Santa Catarina. (2016)
- Carlson, R. C.; Isler, C. A.; Fernandes, C. W. N.; Lopes, S. B. Evaluation committee of Renan Artur Lopes Eccel, Prioridade semafórica para transporte coletivo por ônibus: o caso dos corredores centro-norte da cidade de Joinville, Transportation Engineering and Logistics, Federal University of Santa Catarina. (2015)
- Silveira, H. B.; Trofino Neto, A.; Carlson, R. C.; Zambaldi, L. F.; Peres, G. Evaluation committee of Martin Vincent Bloedorn, Prototype of a low-cost open source prosthetic hand, Control and Automation Engineering, Federal University of Santa Catarina. (2015)
- Flesch, R. C. C.; Carlson, R. C.; Weihmann, L. Evaluation committee of Josue Basen Pereira, Um estudo da mobilidade da cidade de Joinville baseado no índice de mobilidade urbana sustentável, Interdisciplinary in Mobility, Federal University of Santa Catarina. (2013)

- Flesch, R. C. C.; Carlson, R. C.; Weihmann, L. Evaluation committee of William Moldenhauer de Jesus, Uso de redes neurais artificiais autorregressivas para estimar a capacidade de refrigeração de compressores através da estimação de dados de regime transiente, Interdisciplinary in Mobility, Federal University of Santa Catarina. (2013)

Examiner of Candidates to Faculty Positions

- Hübner, J. F.; Bhaya, A.; Carlson, R. C. Methodology and Computing Techniques, Federal University of Santa Catarina. (2019)
- Setti, J. R.; Kraus Jr., W.; Carlson, R. C. Transportation Engineering/Traffic Engineering, Federal University of Santa Catarina. (2015)
- Casali, R. M.; Carlson, R. C.; Loureiro, K. C. Transportation Engineering/Transport Operations, Federal University of Santa Catarina. (2014)

Examiner of Candidates to Temporary Teaching Positions

- Carlson, R. C.; Farines, J.-M.; Koliver, C. Electrical engineering/Control of electronic processes, feedback, Federal University of Santa Catarina. (2018)
- Flesch, R. C. C.; Roqueiro, N.; Carlson, R. C. Electrical engineering/Control of electronic processes, feedback, Federal University of Santa Catarina. (2016)
- Carlson, R. C.; Souza, C. B. P.; Casali, R. M. Transportation and Logistics, Federal University of Santa Catarina. (2013)
- Flesch, R. C. C.; Oliveira Filho, M. E.; Carlson, R. C. Hardware and embedded systems, Federal University of Santa Catarina. (2013b)
- Souza, C. B. P.; Taglialha, S. L. S.; Carlson, R. C. Transportation Engineering/Transport Economy, Federal University of Santa Catarina. (2013)
- Oliveira Filho, M. E.; Larico, H. R. E.; Carlson, R. C. Electrical Engineering/Circuits Theory, Federal University of Santa Catarina. (2013)
- Souza, C. B. P.; Carlson, R. C.; Barra, B. S. Transportation Engineering/Transport Operations, Federal University of Santa Catarina. (2013)
- Flesch, R. C. C.; Oliveira Filho, M. E.; Carlson, R. C. Hardware and embedded systems, Federal University of Santa Catarina. (2013a)

SUPERVISIONS

Supervisor of Postdoctoral Researchers

- Eduardo Rauh Müller. Controle cooperativo de veículos automatizados em cruzamentos. Automation and Systems Engineering, Federal University of Santa Catarina. (2018–2019)

Supervisor of Doctoral Dissertations

- Elham Ahmadi ... Automation and Systems Engineering, Federal University of Santa Catarina. Funded by The National Council for Scientific and Technological Development (CNPq). (...)
- Lucas Zimmermann. ... Automation and Systems Engineering, Federal University of Santa Catarina. Funded by The National Council for Scientific and Technological Development (CNPq). Co-supervisor. (...)
- Diego Benites Paradedá. Método probabilístico para estimativa de embarques de passageiros em transporte coletivo por ônibus utilizando dados de sinalização Wi-Fi, Automation and Systems Engineering, Federal University of Santa Catarina. Funded by The National Council for Scientific and Technological Development (CNPq). Co-supervisor. (2020)
- Eduardo Rauh Müller. Optimal arrival time scheduling of automated vehicles at intersections, Automation and Systems Engineering, Federal University of Santa Catarina. Funded by The National Council for Scientific and Technological Development (CNPq). (2018)

Supervisor of Master Theses

- Luiz Felipe Curtarelli. ... Automation and Systems Engineering, Federal University of Santa Catarina. Funded by Co-supervisor. (...)
- Gabriel Wendel Santos da Silva. ... Automation and Systems Engineering, Federal University of Santa Catarina. Funded by (...)
- Creverson Moraes. ... Automation and Systems Engineering, Federal University of Santa Catarina. Funded by (...)
- Georgios Ioannis Ninos Neto. ... Automation and Systems Engineering, Federal University of Santa Catarina. Funded by (...)
- Lucas Franco Lima. Controle realimentado de intervalo entre ônibus com ganho variável de acordo com o carregamento. Automation and Systems Engineering, Federal University of Santa Catarina. Funded by the CAPES Foundation, Ministry of Education of Brazil. Co-supervisor. (2020)
- Renan Artur Lopes Eccel. Problemas dinâmicos de coleta e entrega com janelas de tempo: análise de instâncias de benchmark. Automation and Systems Engineering, Federal University of Santa Catarina. Funded by the CAPES Foundation, Ministry of Education of Brazil. (2019)
- Jéssica Aquino Chaves. Controle do fluxo principal em rodovias por meio de veículos cooperativos equipados com controle adaptativo de cruzeiro, Automation and Systems Engineering, Federal University of Santa Catarina. Funded by the CAPES Foundation, Ministry of Education of Brazil. (2018)
- Henrique Salvaro Furtado. Evaluation of automated intersection control strategies for automated vehicles, Automation and Systems Engineering, Federal University of Santa Catarina. Funded by the CAPES Foundation, Ministry of Education of Brazil. (2017)
- Vinícius Araújo de Oliveira. Estimador de fila em vias semaforizadas utilizando detector a laço indutivo. Automation and Systems Engineering, Federal University of Santa Catarina. Funded by the CAPES Foundation, Ministry of Education of Brazil. (2017)
- Arthur Theodoro Marinho. Calibração de modelos de consumo de combustível para microssimulação de tráfego com dados coletados via OBD. Automation and Systems Engineering, Federal University of Santa Catarina. Funded by the CAPES Foundation, Ministry of Education of Brazil. (2016)
- Emmanuel Katende Dinanga. Multi agent systems approach for emergency response process management, Automation and Systems Engineering, Federal University of Santa Catarina. Funded by the CAPES Foundation, Ministry of Education of Brazil. Co-supervisor. (2016)
- Diego Benites Paradedá. Implantação de faixas exclusivas para ônibus: efeito da troca modal no tráfego. Automation and Systems Engineering, Federal University of Santa Catarina. Funded by the CAPES Foundation, Ministry of Education of Brazil. Co-supervisor. (2015)
- Eduardo Rauh Müller. Estudo por Microssimulação do Controle de Fluxo Principal em Rodovias através de Limite de Velocidade Variável. Automation and Systems Engineering, Federal University of Santa Catarina. Funded by The National Council for Scientific and Technological Development (CNPq). (2013)

Supervisor of Diploma Theses

- Matheus Barreto Nunes de Aguiar. Desenvolvimento de softwares para o ecossistema do Turismo Brasileiro. Control and Automation Engineering, Federal University of Santa Catarina. (2020)
- Thuany Karoline Stuart. Conception and development of a graph-based similarity algorithm for record matching in a Master Data Management application. Control and Automation Engineering, Federal University of Santa Catarina. (2020)
- Ricardo Carvalho Frantz do Amaral. Planejamento, desenvolvimento e implementação de API para aplicativo para supervisão de escolas de música. Control and Automation Engineering, Federal University of Santa Catarina. (2018)
- Leonardo Schevz de Werk. Desenvolvimento de plataforma online de doações baseada em uma DDD, Event Sourcing e CQRS. Control and Automation Engineering, Federal University of Santa Catarina. (2018)

- Angelo Frigeri Araujo. Congestion mitigation in freeways using optimal control. Control and Automation Engineering, Federal University of Santa Catarina. (2018)
- Augusto José Toso. Imputação da ocupação de vias em redes de tráfego urbano por meio de máquinas de vetores de suporte por mínimos quadrados. Control and Automation Engineering, Federal University of Santa Catarina. (2017)
- Renan Artur Lopes Eccel. Prioridade semafórica para transporte coletivo por ônibus: o caso dos corredores centro-norte da cidade de Joinville. Transportation Engineering and Logistics, Federal University of Santa Catarina. (2015)

Supervisor of Scientific Education

- Helena Borges Daré. Controle de veículos automatizados em interseções reconfiguráveis. Control and Automation Engineering, Federal University of Santa Catarina. Funded by The National Council for Scientific and Technological Development (CNPq). (Aug/2019–Nov/2019)
- Joana Alves dos Santos. Verificação formal de estratégias de controle de interseções com veículos automatizados. Control and Automation Engineering, Federal University of Santa Catarina. Funded by The National Council for Scientific and Technological Development (CNPq). (Aug/2018–Jul/2019)
- Joana Alves dos Santos. Comparação de estratégias de control de tráfego de veículos automatizados. Control and Automation Engineering, Federal University of Santa Catarina. Funded by The National Council for Scientific and Technological Development (CNPq). (Aug/2017–Jul/2018)
- Gabriel Jurask. Efeitos do controle de tráfego urbano em tempo real no diagrama fundamental macroscópico. Mechatronics Engineering, Federal University of Santa Catarina. Funded by The National Council for Scientific and Technological Development (CNPq). (Aug/2013–Jul/2014)
- Sabrina Bonfanti. Projeto de tecnologia e mobilidade para incentivar jovens talentos - sistemas urbanos: transporte de pessoas. Escola Estadual Básica Professora Jandira D'Ávila (Secondary School). Funded by The National Council for Scientific and Technological Development (CNPq). (Apr/2013–Jan/2014)

Supervisor of Internships

- Roger Amaro Almeida. Intern at Granter Tecnologia EIRELI. (Aug/2019–Dec/2019)
- Luiz Felipe Silva Vale. Intern at Baltus Sistemas LTDA. (Jul/2019–Jan/2020)
- Natan Kanitz. Intern at Lucas Pereira Luiz ME. (Jun/2019–Nov/2019)
- Sher Gallo Netto. Inter at Department of Automation and Systems, Federal University of Santa Catarina. (May/2019–Jun/2019)
- Luciana Gislanda do Nascimento Martins. Inter at Department of Automation and Systems, Federal University of Santa Catarina. (May/2019–Jun/2019)
- Lorenzo Pitombo Vella. Intern at SIATT - Engenharia, Indústria e Comércio LTDA. (Feb/2019–Mar/2019)
- Natan Kanitz. Intern at Lucas Pereira Luiz ME. (Sep/2018–Mar/2019)
- Leonardo Carradore. Intern at Astrea Software LTDA - EPP. (Apr/2019–Aug/2020)
- Leonardo Leite. Departamento de Engenharia Sanitária e Ambiental da Universidade Federal de Santa Catarina. (Apr/2019–Jul/2019)
- Roger Amaro Almeida. Intern at Khor Tecnologia da Informação Ltda. (Feb/2019–August/2019)
- Bruno Butzke de Souza. Intern at Fundação CERTI. (May/2018–Nov/2019)
- Bianca da Silva Britto. Itern at Z Tech Solutions LTDA. (Aug/2018–Aug/2019)
- Gabriel Batistell. Intern at Valin Tecnologia LTDA. (Jul/2018–Jun/2019)
- Vanderlei Munhoz Pereira Filho. Intern at IBM DEG - Developer Ecosystem Group. (?)
- Thuany Karoline Stuart. Intern at Philips Lighting DPL. (Feb/2018–Aug/2018)
- Bruno Butzke De Souza. Intern at the Santa Catarina State University. (Apr/2017–May/2018)
- Augusto José Toso. Intern at Embraer S. A. (Feb/2017–Dec/2017)

- Mônica Spínola Felix. Intern at the Department of Automation and Systems, Federal University of Santa Catarina. (Mar/2016–Jul/2016)
- Lucas Zimmermann. Intern at the Department of Automation and Systems, Federal University of Santa Catarina. (Nov/2015–Jun/2016)
- Luana de Oliveira Pereira. Intern at the Department of Automation and Systems, Federal University of Santa Catarina. (Aug/2015–Apr/2016)
- Felipe Rossi Trojan. Intern at IPPUJ Foundation, Municipality of Joinville. (Jun/2013–May/2015)
- Rodrigo Shigueiro Siroma. Intern at the Traffic Division, Municipality of Joinville. (Jul/2014–Jan/2015)
- Nathan Filipe Hoepers. Intern at IPPUJ Foundation, Municipality of Joinville. (Jun/2013–Dec/2014)

Supervisor of Tutors

- Gabriel Paiva de Oliveira. Tutor for Foundations of Information Structure - DAS 5102. Federal University of Santa Catarina. (2019/1–2019/2)
- Fabiano Junior Maia Manschein. Tutor for Foundations of Information Structure - DAS 5102. Federal University of Santa Catarina. (2018/1–2018/2)
- Cristian Assis Rocha Yamamoto. Tutor for Foundations of Information Structure - DAS 5102. Federal University of Santa Catarina. (2017/2)
- Vinícius Heck Peiter. Tutor for Foundations of Information Structure - DAS 5102. Federal University of Santa Catarina. (2017/1)
- Antônio Sandri Silvestre. Tutor for Foundations of Information Structure - DAS 5102. Federal University of Santa Catarina. (2016/2)
- Alex Amadeu Cani. Tutor for Foundations of Information Structure - DAS 5102. Federal University of Santa Catarina. (2016/1)
- Rafael Kiem Pfau Santos. Tutor for Introduction to Control Systems - EMB 5111. Federal University of Santa Catarina. (2014/1–2014/2)
- Hugo Lückmann Vidal. Tutor for Introduction to Control Systems - EMB 5111. Federal University of Santa Catarina. (2013/2)
- Gabriel Jurask. Tutor for Introduction to Computer Programming - EMB 5013. Federal University of Santa Catarina. (2012/2)

EVENTS

Associate Editor, Member of Scientific or International Program Committees

- Forum on Integrated and Sustainable Transportation Systems (2020)
- IFAC Symposium on Control in Transportation Systems (2018, 2021)
- International Conference on Vehicle Technology and Intelligent Transport Systems (2018, 2019, 2020, 2021)
- International IEEE Conference on Intelligent Transportation Systems (2016, 2017, 2018, 2019, 2020)
- Symposium on Management of Future Motorway and Urban Traffic Systems (2016, 2018, 2020)

Organization of Conferences

- Carlson, R. C.; Kraus Jr, W.; Lopes, S. B.; Cavion, R.; Souza, J. C.; Hoinaski, L.; Meyer, B. 33^o ANPET - Congresso da Associação Nacional de Pesquisa e Ensino em Transportes. (2019)
- Dias, A.; Lezana, A. G. R.; Fernandes, C. W. N.; Pinto, C. R. S. de C.; Ferreira, C. V.; Recouvreur, D. O. S.; Cardozo, E.; Calil, L. F. P.; Casali, R. M.; Carlson, R. C. XXVI ANPET - Congresso Nacional de Pesquisa e Ensino em Transportes. (2012)

Participation on Conferences, Symposia, Workshops and Seminars

- 34^o Congresso de Pesquisa e Ensino em Transportes, 100% Digital, Brasil. (2020)
- 3rd Symposium on Management of Future Motorway and Urban Traffic Systems, Luxembourg (online). (2020)
- 33^o Congresso de Pesquisa e Ensino em Transportes, Balneário Camboriú, Brasil. (2019)
- 32^o Congresso de Pesquisa e Ensino em Transportes, Gramado, Brasil. Presentation of paper **C38**. (2018)
- XXXI Congresso Nacional de Pesquisa e Ensino em Transportes, Recife, Brasil. Presentation of papers **A14**, **A15**, **A16**, and **C35**. (2017)
- 1st IFAC Conference on Cyber-Physical & Human-Systems, Florianópolis, Brazil. (2016)
- 19th International IEEE Conference on Intelligent Transportation Systems, Rio de Janeiro, Brasil. Presentation of paper **C29**. (2016)
- 1st Symposium on Management of Future Motorway and Urban Traffic Systems, Chania, Greece. Presentation of abstract **A13**. (2016)
- Seminário SincroBUS: Sistema de Informação e Controle em Tempo Real de Ônibus Urbanos, Florianópolis, Brazil. (2014)
- I Seminário sobre Mobilidade Internacional de Alunos de Graduação, Joinville, Brazil. (2014)
- III Workshop do PlanMob Joinville, Joinville, Brazil. (2014)
- Reuniões dos Grupos de Trabalho do PlanMOB: Fase de Leitura Técnica, Joinville, Brazil. (2014)
- 2^o workshop Do PAC ao Plano de Mobilidade urbana em Joinville (SC), Joinville, Brazil. (2014)
- XXXI SEURS - Seminário de Extensão Universitária da Região Sul. Parecerista de mini-cursos, Florianópolis, Brazil. (2013)
- XXVI ANPET - Congresso Nacional de Pesquisa e Ensino em Transportes, Joinville, Brazil. Presentation of paper **C20**. (2012)
- COST TU0903 Workshop and Management Committee and Workgroups Meeting, Stockholm, Sweden. (2011)
- TRB Traffic Flow Theory Committee (TFTC) Summer Conference, Annecy, France. (2010)
- Transport Research Arena 2010, Brussels, Belgium. (2010)
- COST TU0903 Workshop and Management Committee and Workgroups Meeting, Annecy, France. (2010)
- NEARCTIS 3rd Workshop: towards new research area in co-operative traffic management, Lausanne, Switzerland. Presentation of paper **A6**. (2010)
- COST TU0903 Workshop and Management Committee and Workgroups Meeting, Barcelona, Spain. Presentation with title *Modelling the VSL impact on the aggregate traffic flow behaviour based on real data*. (2010)
- COST TU0903 Management Committee and Workgroups Meeting, Haifa, Israel. (2010)
- Young European Arena of Research 2010, Brussels, Belgium. Presentation of paper **A5**. (2010)
- 12th IFAC Symposium on Control in Transportation Systems (CTS'09), Redondo Beach, USA. Presentation of paper **C8**. (2009)
- 10th International Conference on Applications of Advanced Technologies in Transportation, Athens, Greece. (2008)
- Congresso Virtual Brasileiro de Administração 2007, Online. (2007)
- 11th IFAC Symposium on Control in Transportation Systems, Delft, The Netherlands. (2006)
- XVIII ANPET - Congresso de Pesquisa e Ensino em Transportes, Florianópolis, Brazil. (2004)
- III Semana de Pesquisa e Extensão da Universidade Federal de Santa Catarina, Florianópolis, Brazil. (2003)
- I Encontro Nacional de Estudantes de Engenharia de Controle e Automação, Florianópolis, Brazil. Presentation of paper **A1**. (2001)
- XIII Congresso Brasileiro de Automática, Florianópolis, Brazil. (2000)

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Meet the Conservation Fund, Environmental Protection and Oil Spill Compensation Fund to , Training and Education Program on Occupational Safety and Health Fund, Lawyersâ€™ Fund for Client Protection, Equipment Loan Fund for the Disabled, Mass Transportation Operating Assistance Fund, Clean Air Fund, New York State Infrastructure Trust Fund, Legislative Computer Services Fund, Biodiversity Stewardship and Research Fund, Combined Non-Expendable Trust Fund, Winter Sports Education Trust Fund, and, to be sure, the Musical Instrument Revolving Fund. Did you know that New York State has a dedicated Federal Revenue Maximization Fund, as well as a Revenue Maximization Contractor Account? In engineering, a foundation is the element of a structure which connects it to the ground, and transfers loads from the structure to the ground. Foundations are generally considered either shallow or deep. Foundation engineering is the application of soil mechanics and rock mechanics (Geotechnical engineering) in the design of foundation elements of structures. Foundations provide the structure's stability from the ground @article{Altbach2007TheIO, title={The Internationalization of Higher Education: Motivations and Realities}, author={P. Altbach and J. Knight}, journal={Journal of Studies in International Education}, year={2007}, volume={11}, pages={290 - 305} }. P. Altbach, J. Knight. Published 2007. Sociology. Journal of Studies in International Education. Globalization and internationalization are related but not the same thing. Globalization is the context of economic and academic trends that are part of the reality of the 21st century. Patrick Bond. University of KwaZulu-Natal School of Development Studies and. Centre for Civil Society, Durban. presented to the. I think the economic logic behind dumping a load of toxic waste in the lowest wage country is impeccable and we should face up to that! Africa is vastly underpollutedâ€™. (preparing for original Rio Earth Summit, secret memo of Bank chief economist Larry Summers, later US Treasury Secretary and Obamaâ€™s economic manager â€“ full memo: www.whirledbank.org). Jos Lutzenberger: "Your reasoning is perfectly logical but totally insane." by the Dutch FACE Foundation as part of a carbon trading project. Reducing Emissions. through Deforestation. EducaÃ§Ã£o a DistÃ¢ncia 1 person. Electrical Engineering 1 person. F. Filosofia da EducaÃ§Ã£o 1 person. Password: Remember me on this computer. or reset password. Enter the email address you signed up with and we'll email you a reset link.