

FENI DALANO ROOSEVELT AGOSTINHO

Curriculum Vitae

(Short version - March 2017)



Personal details

Name: Feni Dalano Roosevelt

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Born in Valinhos city, São Paulo State, Brazil, June 30th 1978 (38 years age completed)

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Current Position: Professor at Paulista University (UNIP), Post-graduation Program on Production Engineering, Cleaner Production and Industrial Ecology Laboratory

Scientific Career Summary

Graduated in Agricultural Engineering (2001), M.Sc. (2005) and Ph.D. (2009) in Food Engineering by State University of Campinas (UNICAMP), Brazil; post-graduation studies under scientific guidance of Prof. Dr. Enrique Ortega. Part of PhD studies were realized at Università degli Studi di Napoli Parthenope, Italy. Post-PhD studies concluded in 2011 on the theme Energetic-Environmental Impacts on Ethanol Production. Since 2012 acting as professor and researcher in the Production Engineering Post-graduation Program at Paulista University (UNIP), São Paulo, Brazil. Subject work is related to Industrial Ecology and Cleaner Production, focusing on sustainability assessment (indicators, methodologies, theories, and modeling). Projects sponsored by Brazilian National Council of Technological and Scientific Development (CNPq-Brazil). Integrates de research group of Production and Environment at Paulista University.

Education

- 2009-2011 – Post-PhD in Food Engineering, State University of Campinas, Brazil
- 2005-2009 – PhD in Food Engineering, State University of Campinas, Brazil
- 2003-2005 – M.Sc. in Food Engineering, State University of Campinas, Brazil
- 1997-2001 – Graduated in Agricultural Engineering, State University of Campinas, Brazil

Publications (last 5 years)

- **Peer-Reviewed Journal Articles (in order of publication date)**

- AGOSTINHO, F.; SEVEGNANI, F.; ALMEIDA, C.M.V.B.; GIANNETTI, B.F. Exploring the potentialities of emergy accounting in studying the limits to growth of urban systems. *Ecological Indicators*, 2016. Article In Press.
- SEVEGNANI, F.; GIANNETTI, B.F.; ALMEIDA, C.M.V.B.; AGOSTINHO, F.; BROWN, M.T. Accounting for internal stocks in assessing the sustainability of urban systems: The case of ABC Paulista. *Ecological Indicators*, 2016. Article In Press.
- SEVEGNANI, F.; GIANNETTI, B.F.; AGOSTINHO, F.; ALMEIDA, C.M.V.B. Assessment of municipal potential prosperity, carrying capacity and trade. *Journal of Cleaner Production*, 2016. Article In Press.
- DI SALVO, ANDRÉ L.A.; AGOSTINHO, Feni; ALMEIDA, CECÍLIA M.V.B.; GIANNETTI, BIAGIO F. Can cloud computing be labeled as -green-? Insights under an environmental accounting perspective. *Renewable & Sustainable Energy Reviews*, v. 69, p. 514-526, 2017.
- ALMEIDA, C.M.V.B.; RODRIGUES, A.J.M.; AGOSTINHO, F.; GIANNETTI, B.F. Material selection for environmental responsibility: the case of soft drinks packaging in Brazil. *Journal of Cleaner Production*, v. 142, p. 173-179, 2017.
- ALMEIDA, C.M.V.B.; AGOSTINHO, F.; HUISINGH, D.; GIANNETTI, B.F. Cleaner Production towards a sustainable transition. *Journal of Cleaner Production*, v. 142, p. 1-7, 2017.
- TASSINARI, C.A.; BONILLA, S.H.; AGOSTINHO, F.; ALMEIDA, C.M.V.B.; GIANNETTI, B.F. Evaluation of two hydropower plants in Brazil: using emergy for exploring regional possibilities. *Journal of Cleaner Production*, v. 122, p. 78-86, 2016.
- GIANNETTI, B.F.; PREVEZ, L.; AGOSTINHO, F.; ALMEIDA, C.M.V.B. Greening a Cuban Local Mango Supply Chain: Sustainability Options and Management Strategies. *Journal of Environmental Accounting and Management*, v. 4, p. 253-268, 2016.
- GIANNETTI, B.F.; SILVA, C.C.; AGOSTINHO, F.; ALMEIDA, C.M.V.B. Emergy Evaluation of Domestic Wastewater Treatments: The Role of Energy and Materials Consumption and Carbon Emissions. *Journal of Environmental Accounting and Management*, v. 4, p. 317-338, 2016.
- OLIVEIRA, M.W.; AGOSTINHO, F.; ALMEIDA, C.M.V.B.; GIANNETTI, B.F. Sustainable Milk Production: Application of the Hierarchical Analytical Process Towards a Regional Strategic Planning. *Journal of Environmental Accounting and Management*, v. 4, p. 385-398, 2016.
- AGUSTINI, C.A.DI.; ALMEIDA, C.M.V.B.; AGOSTINHO, F.; GIANNETTI, B.F. Avaliação de impacto da escala econômica na dimensão ambiental das empresas do ISE da BM & FBOVESPA conforme parâmetros da Política Nacional do Meio Ambiente (Lei nº 10.165). *Gestão & Produção (UFSCAR. Impresso)*, v. 22, p. 96-106, 2015.
- GIANNETTI, B.F.; AGOSTINHO, F.; MORAES, L.C.; ALMEIDA, C.M.V.B.; ULGIATI, S. Multicriteria cost-benefit assessment of tannery production: The need for breakthrough process alternatives beyond conventional technology optimization. *Environmental Impact Assessment Review*, v. 54, p. 22-38, 2015.
- MUNGUIA, N.; VELAZQUEZ, L.; PEREZ, R.; RINCÓN, D.; MARIN, M.; GIANNETTI, B.F.; ALMEIDA, C.M.V.B.; AGOSTINHO, F. Sustainability Assessment of Alternatives for Heat Generation and Transfer in Saunas. *Journal of Environmental Protection (Print)*, v. 06, p. 1378-1393, 2015.
- ALMEIDA, C.M.V.B.; CARVALHO, N.; AGOSTINHO, F.; GIANNETTI, B.F. Using Emergy to Assess the Business Plan of a Small Auto-parts Manufacturer in Brazil. *Journal of Environmental Accounting and Management*, v. 3, p. 371-384, 2015.
- SICHE, J.R.; AGOSTINHO, F. El índice de beneficio emergético (IBE) como indicador de sostenibilidad de las exportaciones del sector agropecuario de un país. *Journal of Agriculture and Animal Sciences*, v. 4, p. 8-18, 2015.
- MARIANO, M.V.; ALMEIDA, C.M.V.B.; BONILLA, S.H.; AGOSTINHO, F.; GIANNETTI, B.F. Avaliação em emergia como ferramenta de gestão nos parques urbanos de São Paulo. *Gestão & Produção (UFSCAR. Impresso)*, v. 22, p. 443-458, 2015.
- AGOSTINHO, F.; SICHE, R. Hidden costs of a typical embodied energy analysis: Brazilian sugarcane ethanol as a case study. *Biomass & Bioenergy*, v. 71, p. 69-83, 2014.

- GIANNETTI, B.F.; AGOSTINHO, F.; ALMEIDA, C.M.V.B.; HUISINGH, D. A review of limitations of GDP and alternative indices to monitor human wellbeing and to manage eco-system functionality. *Journal of Cleaner Production*, v. 87, p. 11-25, 2014.
- FRUGOLI, P.A.; ALMEIDA, C.M.V.B.; AGOSTINHO, F.; GIANNETTI, B.F.; HUISINGH, D. Can measures of well-being and progress help societies to achieve sustainable development?. *Journal of Cleaner Production*, v. 90, p. 370-380, 2014.
- ALMEIDA, C.M.V.B.; AGOSTINHO, F.; GIANNETTI, B.F.; HUISINGH, D. Integrating cleaner production into sustainability strategies: an introduction to this special volume. *Journal of Cleaner Production*, v. 96, p. 1-9, 2014.
- AGOSTINHO, F.; BERTAGLIA, A.B.B.; ALMEIDA, C.M.V.B.; GIANNETTI, B.F. Influence of cellulase enzyme production on the energetic-environmental performance of lignocellulosic ethanol. *Ecological Modelling*, v. 315, p. 46-56, 2014.
- AGOSTINHO, F.; Pereira, L. Support area as an indicator of environmental load: Comparison between Embodied Energy, Ecological Footprint, and Emery Accounting methods. *Ecological Indicators*, v. 24, p. 494-503, 2013.
- AGOSTINHO, F.; ALMEIDA, C.M.V.B.; BONILLA, S.H.; SACOMANO, J.B.; GIANNETTI, B.F. Urban solid waste plant treatment in Brazil: Is there a net emery yield on the recovered materials?. *Resources, Conservation and Recycling*, v. 73, p. 143-155, 2013.
- GIANNETTI, B.F.; DEMÉTRIO, J.F.C.; BONILLA, S.H.; AGOSTINHO, F.; ALMEIDA, C.M.V.B. Emery diagnosis and reflections towards Brazilian sustainable development. *Energy Policy*, v. 63, p. 1002-1012, 2013.
- AGOSTINHO, F.; ORTEGA, E. Avaliação energético-ambiental da produção agropecuária na bacia hidrográfica dos rios Mogi-Guaçu e Pardo, Brasil. *Revista Iberoamericana de Economía Ecológica*, v. 20, p. 1-16, 2013.
- MUNHOZ, C.R.; ALMEIDA, C.M.V.B.; AGOSTINHO, F.; BONILLA, S.H.; GIANNETTI, B.F. Streamlined life cycle inventory of dental syringes manufacturing. *Journal of Environmental Accounting and Management*, v. 1, p. 189-201, 2013.
- GIANNETTI, B.F.; ALMEIDA, C.M.V.B.; AGOSTINHO, F.; BONILLA, S.H.; ULGIATI, S. Primary evidences on the robustness of environmental accounting from emery. *Journal of Environmental Accounting and Management*, v. 1, p. 203-212, 2013.
- AGOSTINHO, F.; ORTEGA, E. Integrated food, energy and environmental services production as an alternative for small rural properties in Brazil. *Energy (Oxford)*, v. 37, p. 103-114, 2012.
- AGOSTINHO, F.; ORTEGA, E. Energetic-environmental assessment of a scenario for Brazilian cellulosic ethanol. *Journal of Cleaner Production*, v. 47, p. 474-489, 2012.

- **Book chapters**

- AGUSTINI, C.A.; GIANNETTI, B.F.; ALMEIDA, C.M.V.B.; AGOSTINHO, F.; SEVEGNANI, F. Chapter 13. Sustainability in the Stock Exchange: a ranking to identify/invest in more sustainable businesses. In: Giannetti, B.F.; Almeida, C.M.V.B.; Agostinho, F.; Sevegnani, F. (Org.). *Advances in Cleaner Production*, Volume 2, 1ed., New York: Nova Science Publishers Inc., 2016, v.1, p.237-255.
- BUSTAMANTE, G.; GIANNETTI, B.F.; AGOSTINHO, F.; ALMEIDA, C.M.V.B. Analysis of the Polyethylene Terephthalate Production Chain: an Approach Based on the Emery Synthesis. In: International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2016, Foz do Iguaçu. *Advances in Production Management Systems. Initiatives for a Sustainable World*. Springer Berlin Heidelberg, 2016.
- BUSTAMANTE, G.; GIANNETTI, B.F.; AGOSTINHO, F.; TERRA, M.; ALMEIDA, C.M.V.B. Naphtha Production Assessment from the Perspective of the Emery Accounting. In: International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2016, Foz do Iguaçu. *Advances in Production Management Systems. Initiatives for a Sustainable World*. Springer Berlin Heidelberg, 2016.

OLIVEIRA, M.W.; AGOSTINHO, F.; ALMEIDA, C.M.V.B.; GIANNETTI, B.F. Influence of Quality and Productivity on Milk Production Sustainability: from an Anthropocentric to an Ecocentric View. In: International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2016, Foz do Iguaçu. Advances in Production Management Systems. Initiatives for a Sustainable World. Springer Berlin Heidelberg, 2016.

COSTA, M.; AGOSTINHO, F.; ALMEIDA, C.M.V.B.; GIANNETTI, B.F. Energy Efficiency and Global Warming Potential of a Wind-Energy Complex at Brazilian PiauÍ State. In: International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2016, Foz do Iguaçu. Advances in Production Management Systems. Initiatives for a Sustainable World. Springer Berlin Heidelberg, 2016.

BUENO, M.F.F.; ALMEIDA, C.M.V.B.; AGOSTINHO, F.; ULGIATI, S.; GIANNETTI, B.F. An Emergey Environmental Accounting-Based Study of Different Biofuel Production Systems. In: International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2016, Foz do Iguaçu. Advances in Production Management Systems. Initiatives for a Sustainable World. Springer Berlin Heidelberg, 2016.

PREVEZ, L.; GIANNETTI, B.F.; ALMEIDA, C.M.V.B.; AGOSTINHO, F. Performance Assessment for a Sustainable Supply Chain at Local Level. In: International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2016, Foz do Iguaçu. Advances in Production Management Systems. Initiatives for a Sustainable World. Springer Berlin Heidelberg, 2016.

BORTULUZI, F.A.; AGOSTINHO, F.; ALMEIDA, C.M.V.B.; BONILLA, S.H.; GIANNETTI, B.F. Exploring Alternatives of Accounting for Environmental Liabilities in the Company's Balance Sheet. IFIP Advances in Information and Communication Technology. Springer Berlin Heidelberg, 2014, p.187-196.

CARVALHO, N.; GIANNETTI, B.F.; AGOSTINHO, F.; ALMEIDA, C.M.V.B. Product Change in a Small Company: Effects on Eco-price and Global Productivity. IFIP Advances in Information and Communication Technology. Springer Berlin Heidelberg, 2014, p.178-186.

- **Book organizing**

GIANNETTI, B.F.; ALMEIDA, C.M.V.B.; AGOSTINHO, F.; SEVEGNANI, F. Advances in Cleaner Production. Volume 2, 1^a.ed., New York: Nova Science Publishers Inc., 2016. v.1. 355p.

Scientific guidance for postgraduate students

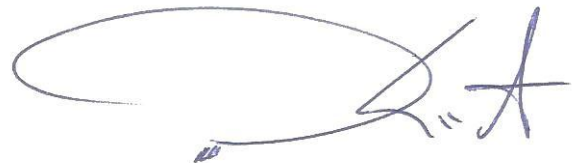
- Márcio Costa. Multicriteria sustainability assessment of on-shore wind-electricity farms at Brazilian Northwest region. M.Sc., 2016.
- André Luigi Amaral Di Salvo. Energetic-environmental assessment of datacenters: traditional versus cloud computing. M.Sc., 2015.
- Max Wilson Oliveira. Sustainability assessment of milk production at south region of Minas Gerais State, Brazil: providing subsidies for a strategic regional planning. PhD., 2017.
- Sasquia Hizuru Obata. Assessing the improvements towards sustainability for the LEED certified green building projects. Post-PhD, 2017.
- Heitor Feitosa Marinho Neto. Using emergey accounting as subsidy for a sustainable development: a case study on agricultural enterprises. M.Sc., under development.
- Robert Martins de Souza. Studying the viability in using emergey to quantify environmental disasters: the case of Mariana city, MG. M.Sc., under development.
- Patrícia Lagranha do Amaral. Accounting for natural capital in the company's balance sheet: using emergey accounting as a measure of value. M.Sc., under development.

- Rimena Canuto Oliveira. Exploring practices of cleaner production on washing processes of textile industries. M.Sc., under development.
- Thames Richard Silva. Assessment of environmental costs in transporting soybean from producer to maritime port for exportation: comparison between road and railway options. PhD., under development.

International Experiences

- Scientific training during six months at Università degli Studi di Napoli Parthenope, Italy, 2009, focused on Life Cycle Assessment and Energy Environmental Accounting under guidance of Prof. Dr. Sérgio Ulgiati.
- Executive Council Member (2015-2016) of International Society for the Advancement of Energy Research, www.emergysociety.com
- Subject Editor of Scientia Agropecuaria Journal, a Latin America and Caribbean scientific journal
- Subject Editor of Journal of Environmental Accounting and Management, an international scientific journal
- Review Editor of Frontiers in Energy Researcher (Energy Systems and Policy) , an international scientific journal
- Reviewer of international scientific journals as Journal of Cleaner Production, Agricultural Systems, Resource Conservation & Recycling, Ecological Modelling, Ecological Indicators, Ecological Engineering, among others.
- Committee organizer of 4th, 5th and 6th International Workshop Advances in Cleaner Production, <http://www.advancesincleanerproduction.net/>
- Member of Advances in Cleaner Production Network, <http://www.advancesincleanerproduction.net/network/>
- Good relationship (professional and personal) with several research groups in universities at Latin and North America, Europe, and China.

São Paulo, March 2nd 2017



Prof. Dr. Feni Agostinho