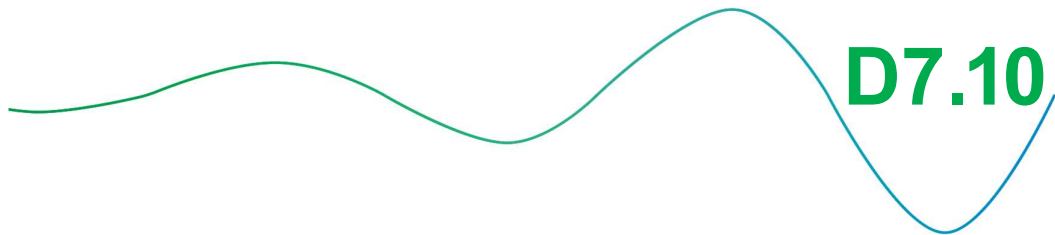


DREAM-GO



Deliverable D7.10 - v1

Mid-term DREAM-GO publication list



Deliverable



European
Commission

Horizon 2020
European Union funding
for Research & Innovation



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1. Introduction

During the development of the first period of DREAM-GO, several methodologies and methods were performed to face the many features of smart grid implementation, and in the reduction of costs for energy systems operation especially in the subject of demand response. These approaches were often published through articles in distinct publication platforms, with acknowledgements for the DREAM-GO project regarding its contribution and relevance. The publications figures are summarized in Table 1.

Table 1. Summary of DREAM-GO publications

Year	Journal	Conference	Workshop	Other	TOTAL
2015	1	4	0	0	5
2016	7	18	0	7	32
2017	3	4	0	0	7
Total	11	26	0	7	44

2. List of Publications that resulted from DREAM-GO project

2.1. Publications - 2015

- F. Pereira, J. Soares, P. Faria, Z. Vale, “Quantum Particle Swarm Optimization Applied to Distinct Remuneration Approaches in Demand Response Programs”, CIASG 2015 – IEEE Symposium on Computational Intelligence Applications in Smart Grid (CIASG) at the IEEE SSCI 2015 (IEEE Symposium Series on Computational Intelligence), Cape Town, South Africa, 07-10 December, 2015, DOI: [10.1109/SSCI.2015.219](https://doi.org/10.1109/SSCI.2015.219)
- D. Boldt, P. Faria, Z. Vale, “Demand Response Shifting Management Applied to Distributed Generation and Pumping”, CIASG 2015 – IEEE Symposium on Computational Intelligence Applications in Smart Grid (CIASG) at the IEEE SSCI 2015 (IEEE Symposium Series on Computational Intelligence), Cape Town, South Africa, 07-10 December, 2015, DOI: [10.1109/SSCI.2015.217](https://doi.org/10.1109/SSCI.2015.217)
- J. Spínola, P. Faria, Z. Vale, “Economic Impact of Demand Response in the Scheduling of Distributed Energy Resources”, CIASG 2015 – IEEE Symposium on Computational Intelligence Applications in Smart Grid (CIASG) at the IEEE SSCI 2015 (IEEE Symposium Series on Computational Intelligence), Cape Town, South Africa, 07-10 December, 2015, DOI: [10.1109/SSCI.2015.218](https://doi.org/10.1109/SSCI.2015.218)
- M. Rahmani-Andebili, G.K. Venayagamoorthy, “Investigating effects of charges in power market regulations on demand-side resources management”, 2015 IEEE Power & Energy Society General Meeting, Denver, USA, 2015, DOI: [10.1109/PESGM.2015.7286312](https://doi.org/10.1109/PESGM.2015.7286312)
- M. Rahmani-Andebili, G.K. Venayagamoorthy, "SmartPark placement and operation for improving system reliability and market participation", Electric Power Systems Research, Volume 123, pp. 21-30, June 2015, DOI: [10.1016/j.epsr.2015.01.016](https://doi.org/10.1016/j.epsr.2015.01.016)

2.2. Publications - 2016

- T. Pinto, T. M. Sousa, H. Morais, I. Praça, Z. Vale, "Metalearning to Support Competitive Electricity Market Players' Strategic Bidding", Electric Power Systems Research, Volume 135, June 2016, DOI: [10.1016/j.epsr.2016.03.012](https://doi.org/10.1016/j.epsr.2016.03.012)
- P. Faria, J. Spínola, Z. Vale, "Aggregation and Remuneration of Electricity Consumers and Producers for the Definition of Demand Response Programs", IEEE Transactions on Industrial Informatics, Volume 12, No. 3, pp. 952-961, June 2016, DOI: [10.1109/TII.2016.2541542](https://doi.org/10.1109/TII.2016.2541542)
- G. Santos, T. Pinto, I. Praça, Z. Vale, "An interoperable approach for energy systems simulation: electricity market participation ontologies", Energies, Volume 9, Issue 11, October 2016, DOI: [10.3390/en9110878](https://doi.org/10.3390/en9110878)
- J. Soares, N. Borges, Z. Vale, P.B. de Moura Oliveira, "Enhanced Multi-Objective Energy Optimization by a Signaling Method", Energies, Volume 9, Issue 10, October 2016, DOI: [10.3390/en9100807](https://doi.org/10.3390/en9100807)
- F. Silva, B. Teixeira, T. Pinto, G. Santos, Z. Vale, I. Praça, "Generation of realistic scenarios for multi-agent simulation of electricity markets", Energy, Volume 116, Part 1, pp. 128-139, December 2016, DOI: [10.1016/j.energy.2016.09.096](https://doi.org/10.1016/j.energy.2016.09.096)
- O. Abrishambaf, L. Gomes, P. Faria, J.L. Afonso, Z. Vale, "Real-Time Simulation of Renewable Energy Transactions in Microgrid Context Using Real Hardware Resources", 2016 IEEE Transmission & Distribution Conference & Exposition (T&D2016), Dallas, USA, 02-05 May, 2016, DOI: [10.1109/TDC.2016.7520009](https://doi.org/10.1109/TDC.2016.7520009)
- L. Gomes, J. Silva, P. Faria, Z. Vale, "Microgrid Demonstration Gateway for Players Communication and Load Monitoring and Management," Clemson University Power Systems Conference 2016 (PSC 2016), Madren Conference Center, Clemson, South Carolina, USA, 08-11 March, 2016, DOI: [10.1109/PSC.2016.7462850](https://doi.org/10.1109/PSC.2016.7462850)
- J. Soares, B. Canizes, Z. Vale, G.K. Venayagamoorthy, "Benders' Decomposition Applied to Energy Resource Management in Smart Distribution Networks", Clemson University Power Systems Conference 2016 (PSC 2016), Madren Conference Center, Clemson, South Carolina, USA, 08-11 March, 2016, DOI: [10.1109/PSC.2016.7462820](https://doi.org/10.1109/PSC.2016.7462820)
- F. Pereira, J. Soares, P. Faria, Z. Vale, "Allocation of Fixed Costs Considering Distributed Generation and Distinct Approaches of Demand Response Remuneration in Distribution Networks", Clemson University Power Systems Conference 2016 (PSC 2016), Madren Conference Center, Clemson, South Carolina, USA, 08-11 March, 2016, DOI: [10.1109/PSC.2016.7462874](https://doi.org/10.1109/PSC.2016.7462874)
- Ó. García, R. S. Alonso, D. I. Tapia, J. M. Corchado, "Electrical power consumption monitoring in hotels using the n-Core Platform", Clemson University Power Systems Conference 2016

(PSC 2016), Madren Conference Center, Clemson, South Carolina, USA, 08-11 March, 2016, DOI: [10.1109/PSC.2016.7462831](https://doi.org/10.1109/PSC.2016.7462831)

- D. Boldt, P. Faria, Z. Vale, “Integration of Pumping in Virtual Power Players Management Considering Demand Response”, EEM 16 – 13th International Conference on the European Electricity Market, Porto, Portugal, 06-09 June, 2016, DOI: [10.1109/EEM.2016.7521279](https://doi.org/10.1109/EEM.2016.7521279)
- M. Ali Fotouhi Ghazvini, S. Ramos, Z. Vale, R. Castro, “Toward Retail Competition in the Portuguese Electricity Market”, EEM 16 – 13th International Conference on the European Electricity Market, Porto, Portugal, 06-09 June, 2016, DOI: [10.1109/EEM.2016.7521209](https://doi.org/10.1109/EEM.2016.7521209)
- G. Santos, T. Pinto, Z. Vale, I. Praça, H. Morais, “Electricity Markets Ontology to Support MASCEM’s Simulations”, Highlights of Practical Applications of Scalable Multi-Agent Systems. The PAAMS Collection, Communications in Computer and Information Science, Volume 616, pp. 393-404, Springer International Publishing, 2016, DOI: [10.1007/978-3-319-39387-2_33](https://doi.org/10.1007/978-3-319-39387-2_33)
- F. Fernandes, L. Gomes, H. Morais, M. Silva, Z. Vale, J.M. Corchado, “Dynamic Energy Management Method with Demand Response Interaction Applied in an Office Building”, Trends in Practical Applications of Scalable Multi-Agent Systems. The PAAMS Collection, Advances in Intelligent Systems and Computing, Volume 473, pp. 69-82, 2016, DOI: [10.1007/978-3-319-40159-1_6](https://doi.org/10.1007/978-3-319-40159-1_6)
- T. Pinto, Z. Vale, I. Praça, G. Santos, “Demonstration of ALBidS: Adaptive Learning Strategic Bidding System”, Advances in Practical Applications of Scalable Multi-Agent Systems. The PAAMS Collection, Lecture Notes in Computer Science, Volume 9662, pp. 281-285, 2016, DOI: [10.1007/978-3-319-39324-7_31](https://doi.org/10.1007/978-3-319-39324-7_31)
- R. Faia, T. Pinto, Z. Vale, “Optimization of Electricity Markets Participation with Simulated Annealing”, Trends in Practical Applications of Scalable Multi-Agent Systems. The PAAMS Collection, Advances in Intelligent Systems and Computing, Volume 473, pp. 27-39, 2016, DOI: [10.1007/978-3-319-40159-1_3](https://doi.org/10.1007/978-3-319-40159-1_3)
- R. Faia, T. Pinto, Z. Vale, “Dynamic Fuzzy Clustering Method for Decision Support in Electricity Markets Negotiation”, Advances in Distributed Computing and Artificial Intelligence Journal, The PAAMS Collection, Volume 5, N. 1, 2016, DOI: [10.14201/ADCAIJ2016512336](https://doi.org/10.14201/ADCAIJ2016512336)
- R. Faia, T. Pinto, Z. Vale, “Portfolio Optimization for Electricity Market Participation with NPSO-LRS”, DEXA 2016 – 27th International Conference on Database and Expert Systems Applications, Porto, Portugal, 05-08 September, 2016, DOI: [10.1109/DEXA.2016.042](https://doi.org/10.1109/DEXA.2016.042)
- O. Abrishambaf, M. Ali Fotouhi Ghazvini, L. Gomes, P. Faria, Z. Vale, J.M. Corchado, “Application of a Home Energy Management System for Incentive-Based Demand Response Program Implementation”, DEXA 2016 – 27th International Conference on Database and Expert Systems Applications, Porto, Portugal, 05-08 September, 2016, DOI: [10.1109/DEXA.2016.043](https://doi.org/10.1109/DEXA.2016.043)

- G. Santos, F. Fernandes, T. Pinto, M. Silva, O. Abrishambaf, H. Morais, Z. Vale, "House Management System with Real and Virtual Resources: Energy Efficiency in Residential Microgrid", GIIIS 2016 – Global Information Infrastructure and Networking Symposium, Porto, Portugal, 19-21 October, 2016, DOI: [10.1109/GIIIS.2016.7814943](https://doi.org/10.1109/GIIIS.2016.7814943)
- R. Faia, T. Pinto, Z. Vale, "GA Optimization Technique for Portfolio Optimization of Electricity Market Participation", CIASG 2016 – IEEE Symposium on Computational Intelligence Applications in Smart Grid (CIASG) at the IEEE SSCI 2016 (IEEE Symposium Series on Computational Intelligence), Athens, Greece, 06-09 December, 2016, DOI: [10.1109/SSCI.2016.7849858](https://doi.org/10.1109/SSCI.2016.7849858)
- E. Vinagre, J.F. De Paz, T. Pinto, Z. Vale, J.M. Corchado, O. Garcia, "Intelligent Energy Forecasting based on the Correlation between Solar Radiation and Consumption patterns", CIASG 2016 – IEEE Symposium on Computational Intelligence Applications in Smart Grid (CIASG) at the IEEE SSCI 2016 (IEEE Symposium Series on Computational Intelligence), Athens, Greece, 06-09 December, 2016, DOI: [10.1109/SSCI.2016.7849853](https://doi.org/10.1109/SSCI.2016.7849853)
- J. Spínola, P. Faria, Z. Vale, "Aggregation Validation Approach for the Management of Resources in a Smart Grid", CIASG 2016 – IEEE Symposium on Computational Intelligence Applications in Smart Grid (CIASG) at the IEEE SSCI 2016 (IEEE Symposium Series on Computational Intelligence), Athens, Greece, 06-09 December, 2016, DOI: [10.1109/SSCI.2016.7849861](https://doi.org/10.1109/SSCI.2016.7849861)
- Ó. Garcia, R.S. Alonso, F. Guevara, J.F. de Paz, G. Villarrubia, J.M. Corchado, O. Abrishambaf, Z. Vale, "Use of context-aware Social Computing to improve energy efficiency in public buildings", CIASG 2016 – IEEE Symposium on Computational Intelligence Applications in Smart Grid (CIASG) at the IEEE SSCI 2016 (IEEE Symposium Series on Computational Intelligence), Athens, Greece, 06-09 December, 2016, DOI: [10.1109/SSCI.2016.7849860](https://doi.org/10.1109/SSCI.2016.7849860)
- P. Chamoso, J.F. de Paz, S. Rodríguez, J. Bajo, "Smart Cities Simulation Environment for Intelligent Algorithms Evaluation", Ambient Intelligence – Software and Applications – 7th International Symposium on Ambient Intelligence (ISAmI 2016), 2016, DOI: [10.1007/978-3-319-40114-0_20](https://doi.org/10.1007/978-3-319-40114-0_20)
- V. Guivarch, J. F. De Paz, G. Villarrubia, J. Bajo, A. Péninou and V. Camps, "Hybrid system to analyze user's behaviour", CIASG 2016 – IEEE Symposium on Computational Intelligence Applications in Smart Grid (CIASG) at the IEEE SSCI 2016 (IEEE Symposium Series on Computational Intelligence), Athens, Greece, 06-09 December, 2016, DOI: [10.1109/SSCI.2016.7849857](https://doi.org/10.1109/SSCI.2016.7849857)
- P. Chamoso, F. De la Prieta, J. Bajo, J.M. Corchado, "Conflict Resolution with Agents in Smart Cities", Interdisciplinary Perspective on Contemporary Conflict, Volume 14, pp. 244-262, 2016, DOI: [10.4018/978-1-5225-0245-6.ch014](https://doi.org/10.4018/978-1-5225-0245-6.ch014)
- P. Chamoso, J.F. de Paz, J. Bajo, G. Villarrubia, "Intelligent Control of Energy Distribution Networks", Trends in Practical Applications of Scalable Multi-Agent Systems. The PAAMS

Collection, *Advances in Intelligent Systems and Computing*, Volume 473, pp. 99-107, 2016, DOI: [10.1007/978-3-319-40159-1_8](https://doi.org/10.1007/978-3-319-40159-1_8)

- P. Herath, G.K. Venayagamoorthy, "A service provider model for demand response management", CIASG 2016 – IEEE Symposium on Computational Intelligence Applications in Smart Grid (CIASG) at the IEEE SSCI 2016 (IEEE Symposium Series on Computational Intelligence), Athens, Greece, 06-09 December, 2016, DOI: [10.1109/SSCI.2016.7849846](https://doi.org/10.1109/SSCI.2016.7849846)
- V. Fusco, G.K. Venayagamoorthy, S. Squartini, F. Piazza, "Smart AMI based demand-response management in a micro-grid environment," *Clemson University Power Systems Conference 2016 (PSC 2016)*, Madren Conference Center, Clemson, South Carolina, USA, 08-11 March, 2016, DOI: [10.1109/PSC.2016.7462866](https://doi.org/10.1109/PSC.2016.7462866)
- P. Charmoso, J.F. de Paz, J. Bajo, G. Villarrubia, "Agent-based tool to reduce the maintenance cost of energy distribution networks," *Knowledge and Information Systems*, 2016
- P. Charmoso, F. de la Prieta, J.F. de Paz, J. Bajo, I. Arandia, "Agreement Technologies Applied to Transmission Towers Maintenance," *Multi-Agent Systems and Agreement Technologies*, pp. 172-187, January 2016, DOI: [10.1007/978-3-319-33509-4_15](https://doi.org/10.1007/978-3-319-33509-4_15)

2.3. Publications - 2017

- J. Soares, M. Ali Fotouhi Ghazvini, N. Borges, Z. Vale, "A stochastic model for energy resources management considering demand response in smart grids", *Electric Power Systems Research*, Volume 143, pp. 599-610, February 2017, DOI: [10.1016/j.epsr.2016.03.012](https://doi.org/10.1016/j.epsr.2016.03.012)
- J. Soares, M. Ali Fotouhi Ghazvini, N. Borges, Z. Vale, "Dynamic electricity pricing for electric vehicles using stochastic programming", *Energy*, Volume 112, pp. 111-127, March 2017, DOI: [10.1016/j.energy.2016.12.108](https://doi.org/10.1016/j.energy.2016.12.108)
- M. Ali Fotouhi Ghazvini, J. Soares, O. Abrishambaf, R. Castro, Z. Vale, "Demand response implementation in smart households", *Energy and Buildings*, Available online March 2017, DOI: [10.1016/j.enbuild.2017.03.020](https://doi.org/10.1016/j.enbuild.2017.03.020)
- A.S. Gazafroudi, F. Prieto-Castrillo, T. Pinto, J.M. Corchado, A. Jozi, Z. Vale, "Model Predictive Dispatch in MAS-based Smart Home", *PAAMS'17 Conference*, 2017, In press
- A.S. Gazafroudi, J.F. de Paz, F. Prieto-Castrillo, G. Villarrubia, J.M. Corchado, A. Talari, M. Shafie-khah, J.P.S. Catalão, "Review paper of Smart Energy Management Systems", *PAAMS-ISAMI'17 Conference*, 2017, In press
- D.H. de la Iglesia, A. Barriuso, A. Murciego, J. Herrero, J. Landeck, J.F. de Paz, J.M. Corchado, "Single appliance automatic recognition: comparison of classifiers", *PAAMS'17 Conference*, 2017, In press

- J. Herrero, A. Murciego, A. Barriuso, D.H. de la Iglesia, R. Carreira, G. Villarrubia, J.M. Corchado, "Non Intrusive Load Monitoring (NILM): a state of the art", PAAMS'17 Conference, 2017, In press