

Ahmad HABLY's publication list

Last update

November 30, 2023

- Ouvrage: 1
- Revues internationales avec comités de lecture : 25
- Revues nationales avec comités de lecture : 1
- Brevets : 1
- Conférences internationales avec actes et chapitres de livre : 90
- Conférences nationales : 2
- Abstracts: 9
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1 Liste exhaustive des publications

1.1 Brevet

1. Dumon,Jonathan; Hably, Ahmad, “*Dispositif volant à décollage vertical*”, *Brevet 20 07304* (2020).

1.2 Articles de revue internationale

1. Razi, Reza; Hajar, Khaled; Hably, Ahmad; Mehraza, Majid; Bacha, Seddik; Gholami, Mehrdad; Labonne, Antoine; Turker, Harun, “*A predictive two-stage user-centered algorithm for smart charging of plug-in electric vehicles considering the state of health of the battery*”, *IEEE Transactions on Transportation Electrification* (2023).
2. Carvalho, Estéban; Susbielle, Pierre; Marchand, Nicolas; Hably, Ahmad; S. Dibangoye,Jilles, “*Event-based Neural Learning for Quadrotor Control*”, *Journal of Autonomous Robots* (2023).
3. Tnunay, Hilton; Moussa, Kaouther; Hably, Ahmad; Marchand, Nicolas, “*Distributed Finite-Time Coverage Control of Multi-Quadrotor Systems with Switching Topology*”, *Mathematics* (2023), 11 (12).
4. Meslem, Nacim; Ahmad Hably; and Tarek Raïssi, “*State and unknown input set-valued estimation for uncertain linear discrete-time systems*”, *Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering* (2023): 571-584.
5. Sani, Mukhtar; Hably, Ahmad; Robu, Bogdan; Dumon, Jonathan, “*Real-time Game-theoretic Model Predictive Control for Differential Game of Target Defense*”, *Asian Journal of Control* (2023), 25(5), p.43-55.
6. Meslem, Nacim; Dumon, Jonathan; Hably, Ahmad; El Ayachi, Asmae; Schanen, Audrey, “*On-line estimation of unknown aerodynamic forces acting on AWE systems*”, *Intelligent Systems with Applications* (16) (2022).

7. Meslem, Nacim; Hably, Ahmad; Raïssi, Tarek, “**Zonotopic unknown input state estimator for discrete-time linear systems**”, *Systems & Control Letters* (2022).
8. Razi, Reza; Iman-Eini, Hossein; Hamzeh, Mohsen; Hably; Ahmad; Bacha, Seddik , “**Interharmonic Current Sharing in Islanding Operation of Inductive Microgrid via Enhanced I-P Droop Scheme**”, *IET Renewable Power Generation* (2021), 15 (16), p. 3832-3842.
9. Schanen, Audrey; Dumon, Jonathan; Meslem, Nacim, Hably; Ahmad; Nègre, Amaury; Sarazin, Alexandre , “**Tethered drone-based Airborne wind energy system launching and retrieving**”, *Journal of Guidance, Control, and Dynamics* (2021), 44 (12), p. 2284-2293.
10. Ovalle, Andres; Hably, Ahmad; Bacha, Seddik, “**Escort function definitions for feasible region flexibility in applications of Replicator-like dynamics with constraints**”, *IEEE Transactions on Automatic Control*, (2021).
11. Razi, Reza; Pham, Minh-Cong; Hably, Ahmad; Bacha, Seddik; Tran, Quoc-Tuan; Iman-Eini, Hossein, “**A Novel Graph-based Routing Algorithm in Residential Multi-Microgrid Systems**”, *IEEE Transactions on Industrial Informatics* (2021),17 (3), p. 1774-1784.
12. Meslem, Nacim; Hably, Ahmad, “**Robust set-membership state estimator against outliers in data**”, *IET Control Theory & Applications* (2020) 14 (13), p. 1752-1761.
13. B. Guo and S. Bacha and M. Alamir and A. Hably and C. Boudinet, “**Generalized Integrator Extended State Observer With Applications to Grid Connected Converters in the Presence of Disturbances**”, *IEEE Transactions on Control Systems Technology* (2020), 29 (2), p. 744-755.
14. Ovalle, Andres; Hably, Ahmad; Bacha, Seddik; Ramos, Gustavo; Hossain, J M, “**Escort Evolutionary Game Dynamics Approach for Integral Load Management of Electric Vehicle Fleets**”, *IEEE Transactions on Industrial Electronics* (2017) , 64, 2, p.1358 -1369.
15. Basu, Kaustav; Debusschere, Vincent; Bacha, Seddik; Hably, Ahmad; Van Delft, Danny; Jan Dirven, Geert, “**A generic data driven approach for low sampling load disaggregation**”, *Sustainable Energy, Grids and Networks* (2017) , 9, p.118-127.
16. Ovalle, Andres; Fernandez, Julian; Bacha, Seddik; Hably, Ahmad, “**An Electric Vehicle Load Management Application of the Mixed Strategist Dynamics and the Maximum Entropy Principle**”, *IEEE Transactions on Industrial Electronics* (2016), 63, 5, p.3060-3071.
17. Hossain, Jahangir; Mahmud, Apel; Milano, Federico; Bacha, Seddik; Hably, Ahmad, “**Design of robust distributed control for interconnected microgrids**”, *IEEE Transactions on Smart Grid* (2016) , 7(6) p.2724-2735.
18. Ovalle, Andres; Ramos, Gustavo; Bacha, Seddik; Hably, Ahmad ; Rumeau, Axel, “**Decentralized control of voltage source converters in microgrids based on the application of instantaneous power theory**”, *IEEE Transactions on Industrial Electronics* (2015) , 62(2) p.1152-1162.
19. Turker, Harun; Bacha, Seddik; Hably, Ahmad, “**Rule-Based charging of plug-in electric vehicles (PEVs): Impacts on the aging rate of low-voltage transformer**”, *IEEE Transactions on Power Delivery* (2014), 29, 3, p.1012-1019.
20. Ovalle, Andres; Ramos, Gustavo; Bacha, Seddik; Hably, Ahmad; Rumeau, Axel, “**Decentralized control of voltage source converters in microgrids based on the application of instantaneous power theory**”, *IEEE Transactions on Industrial Electronics*. (2014) , 62, 2, p. 1152-1162.
21. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik, “**Kite generator system modeling and grid integration**”, *IEEE Transactions on Sustainable Energy* (2013) , 4, 4, p. 968-976.
22. Turker, Harun; Bacha, Seddik; Chatroux, Daniel; Hably, Ahmad, “**Low voltage transformer loss of life assessments for a high penetration of plug-in hybrid electric vehicles (PHEVs)**”, *IEEE Transactions on Power Delivery* (2012) , 27, 3, p. 1323-1331.

23. Guerrero-Castellanos, Fermi; Marchand, Nicolas; Hably, Ahmad; Lesecq, Suzanne; Delamare, Jérôme, “**Bounded attitude control of rigid bodies: Real-time experimentation to a quadrotor mini-helicopter**”, *Control Engineering Practice (2011)* , **19**, **8**, p. 790-797.

In the list of the most cited articles in Control Engineering Practice Journal (Elsevier) since 2011.

Pendant ma thèse:

24. Marchand, Nicolas; Hably, Ahmad; Chemori, Ahmed, “**Global stabilization with low computational cost of the discrete-time chain of integrators by means of bounded controls**”, *IEEE Transactions on Automatic Control (2007)* **52**, **5**, 948-952.
25. Marchand, Nicolas; Hably, Ahmad, “**Nonlinear stabilization of multiple integrators with bounded controls**”, *Automatica (2005)* **41**, **12**, 2147-2152.

1.3 Articles de revue nationale

1. Fernandez, Julian; Riu, Delphine; Bacha, Seddik; Hably, Ahmad, “**Real-time plug-in electric vehicle charging strategies for current unbalance minimization and voltage unbalance reduction**”, *Journal Européen des Systèmes Automatisés (2016)* **49**, **3**, 271-298.

1.4 Chapitres

1. Ahmadigorji, Masoud; Mehraza, Majid; Bacha, Seddik; Hably, Ahmad; Dumon, Jonathan; Smith, Garrett; Bellemain, Pascal, “**A Robust Optimization-Based Model for Smart Charging of PEV Under Multiple Uncertainties**”, *Electric Vehicle Integration via Smart Charging (2022)* 169-199.
2. Hably, Ahmad; Dumon, Jonathan; Smith, Garrett; Bellemain, Pascal, “**Control of a Magnus effect-based airborne wind energy system**”, *Airborne Wind Energy Systems: Advances in Technology Development and Research (2018)* **Chapter 12**, 275-300.

Pendant ma thèse:

3. Hably, Ahmad; Marchand, Nicolas, “**Further results on global stabilization of the PV-TOL aircraft**”, Positive Systems. Proceedings of the Second Multidisciplinary International Symposium on Positive Systems: Theory and Applications, POSTA'06.

1.5 Articles de Congrès Internationaux

1. Azaki, Azaki; Susbielle, Pierre; Offermann, Alexis; Dumon, Jonathan; Meslem, Nacim; Hably, Ahmad; Nègre, Amaury, “**Experimentally Validated Simulator of Flight Dynamics: for a Magnus Effect-based Quadcopter System**”, *IMAV 2023*.
2. Sani, Mukhtar; Hably, Ahmad; Robu, Bogdan; Dumon, Jonathan; Meslem, Nacim, “**Real-time Dynamic Obstacle Avoidance For A Non-holonomic Mobile Robot**”, *IEEE ISIE23*.
3. Azaki, Azaki; Dumon, Jonathan; Meslem, Nacim; Hably, Ahmad, “**Sliding Mode Control of Tethered Drone: Take-off and Landing under Turbulent Wind conditions**”, *ICUAS 2023*.
4. Sani, Mukhtar; Hably, Ahmad; Robu, Bogdan; Dumon, Jonathan; Meslem, Nacim, “**Experiments on the control of differential game of target defense**”, *European Control Conference (ECC'23)*.
5. Razi, Reza; Hajar, Khaled; Hably, Ahmad; Mehraza, Majid; Bacha, Seddik; Labonne, Antoine, “**Assessment of predictive smart charging for electric trucks: a case study in fast private charging stations**”, *CISTEM 2022*.

6. Mehraza, Majid; Hajar, Khaled; Razi, Reza; Labonne, Antoine; Hably, Ahmad; Bacha, Seddik , **“Fuzzy Logic-based Charging Strategy for Frequency Control of an Electric Vehicles-Integrated Weak Grid”**, CISTEM 2022.
7. Tnunay, Hilton; Moussa, Kaouther; Hably, Ahmad; Marchand, Nicolas, **“Distributed Finite-time Coverage Control of Multi-quadrotor Systems”**, IECON 2022.
8. Razi, Reza; Hajar, Khaled; Mehraza, Majid; Labonne, Antoine; Hably, Ahmad; Bacha, Seddik; , **“Smart charging analysis for a service provider in mini parking lots by considering the V2V protocol”**, IECON 2022.
9. Meslem, Nacim; Hably, Ahmad; Raïssi, Tarek; Wang, Zhenhua, **“Reliable Unknown Input Observer for Continuous-Time Linear Systems”**, SAFEPROCESS 2022.
10. Carvalho, Esteban; Susbielle, Pierre; Hably, Ahmad; Dibangoye, Jille; Marchand, Nicolas, **“Neural Enhanced Control for Quadrotor Linear Behavior Fitting”**, ICUAS 2022.
11. Zakeye. Azaki; Dumon, Jonathan; Meslem, Nacim; Hably, Ahmad; Susbielle, Pierre, **“Modelling and control of a tethered drone for an AWE application”**, ICCAD 2022.
12. Razi, Reza; Mehraza, Majid; Hajar, Khaled; Gholami, Mehrdad; Hably, Ahmad; Bacha, Seddik; Labonne, Antoine, **“Predictive smart charging of plug-in electric vehicles for parking fleet scenario with modular converters ”**, CIRED 2022.
13. Mehraza, Majid; Razi, Reza; Gholami, Mehrdad; Hajar, Khaled; Labonne, Antoine; Hably, Ahmad; Bacha, Seddik **“A Dynamic Real-Time Optimization Algorithm for the Revenue Assessment of a Vehicle-To-Grid System in Presence of Wear Cost Model. ”**, International Conference of TC-Electrimacs Committee 2022.
14. Hajar, Khaled; Razi, Reza; Mehraza, Majid; Labonne, Antoine; Hably, Ahmad; Bacha, Seddik **“Photovoltaics at the electric mobility’s service: French case study. ”**, International Conference of TC-Electrimacs Committee 2022.
15. Gholami, Mehrdad; Bacha, Seddik; Hably, Ahmad; Razi, Reza; Mehraza, Majid; Hajar, Khaled; Labonne, Antoine, **“Smart Charging Strategy for Electric Vehicles Using an Optimized Fuzzy Logic System ”**, EPE’22 ECCE EUROPE.
16. Mehraza, Majid; Gholami, Mehrdad; Bacha, Seddik; Hably, Ahmad; Razi, Reza; Hajar, Khaled; Labonne, Antoine, **“Automatic Generation Control-based Charging Discharging Strategy for EV fleets to Enhance the Stability of a Vehicle-To-Weak Grid System ”**, EPE’22 ECCE EUROPE.
17. Sani, Mukhtar; Robu, Bogdan; Hably, Ahmad, **“Limited Information Model Predictive Control for Pursuit-evasion Games”**, CDC 2021.
18. Sani, Mukhtar; Robu, Bogdan; Hably, Ahmad, **“Pursuit-evasion Games Based on Game-theoretic and Model Predictive Control Algorithms”**, ICCAD 2021.
19. Mehraza, Majid; Razi, Reza; Hajar, Khaled; Labonne, Antoine; Hably, Ahmad; Bacha, Seddik; , **“Power Management of a Smart Vehicle-to-Grid (V2G) System Using Fuzzy Logic Approach”**, IECON 2021.
20. Gholami, Mehrdad ; Mehraza, Majid; Razi, Reza; Hably, Ahmad; Bacha, Seddik; Labonne, Antoine, **“An efficient control strategy for the hybrid wind-battery system to improve battery performance and lifetime”**, IECON 2021.
21. Razi, Reza; Hajar, Khaled; Mehraza, Majid; Labonne, Antoine; Hably, Ahmad; Bacha, Seddik, **“Limiting discharge cycles numbers for plug-in electric vehicles in bidirectional smart charging algorithm”**, IECON 2021.
22. Moussa, Kaouther; Tnunay, Hilton; Hably, Ahmad; Marchand, Nicolas, **“Smooth Visual-Coverage Path Planning for Escort Missions using UAVs”**, IECON 2021.

23. Tnunay, Hilton; Moussa, Kaouther; Hably, Ahmad; Marchand, Nicolas, “*Virtual Leader based Trajectory Generation of UAV Formation for Visual Area Coverage*”, IECON 2021.
24. Sani, Mukhtar; Robu, Bogdan; Hably, Ahmad, “*Dynamic Obstacles Avoidance Using Nonlinear Model Predictive Control*”, IECON 2021.
25. Pham, Minh-Cong; Hably, Ahmad; Tran, Quoc-Tuan; Bacha, Seddik, “*Application of energy routers for frequency support in an AC/DC multi-microgrid systems*”, IEEEIC 2021, Bari accepted.
26. Sani, Mukhtar; Robu, Bogdan; Hably, Ahmad, “*Limited Information Model Predictive Control for Pursuit-evasion Games*”, CDC 2021.
27. Reza Razi; Khaled Hajar; Ahmad Hably; Seddik Bacha, “*A user-friendly smart charging algorithm based on energy-awareness for different PEV parking scenarios*”, MED 2021.
28. Meslem, Nacim; Hably, Ahmad, “*Reachability-Based Approach to Design Interval State Observers*”, 24th International Symposium on Mathematical Theory of Networks and Systems, UK.
29. Hajar, Khaled; Guo, Baoling, Hably, Ahmad; Bacha, Seddik, “*Smart charging impact on electric vehicles in presence of photovoltaics*”, 22nd IEEE International Conference on Industrial Technology (ICIT 2021), Spain.
30. M. Mehrasa; N. Beheshti; M. Rezanejad; G.G. Farivar; J. Pou; S. Bacha; A. Hably, “*Fault Operating Condition of Modular Multilevel Converter-Based HVDC Using Lyapunov Method Compensators*”, 2nd Global Power, Energy and Communication Conference (GPECOM 2020), Turkey.
31. A. Zafari; M. Mehrasa; K. Rouzbehi; M.S. Sadabadi; S. Bacha; A. Hably, “*DC-Link Voltage Stability-Based Control Strategy for Grid-Connected Hybrid AC/DC Microgrid*”, 2nd Global Power, Energy and Communication Conference (GPECOM 2020), Turkey.
32. Meslem, Nacim; Hably, Ahmad; Raïssi, Tarek, “*Partial and Full Order Interval Unknown Input State Estimators*”, CoDIT 2020, Czech Republic.
33. Sani, Mukhtar; Robu, Bogdan; Hably, Ahmad, “*Pursuit-evasion Game for Nonholonomic Mobile Robots With Obstacle Avoidance using NMPC*”, MED 2020, France.
34. Ovalle, Andres; Hably, Ahmad; Bacha, Seddik, “*Evolution representation with limited hosting capacities: A comparison between MSD and IEED*”, ICIT 2020, Argentine.
35. Pham, Minh-Cong; Razi, Reza; Tran, Quoc-Tuan; Bacha, Seddik; Hably, Ahmad; Iman-Eini, Hossein, “*Power management in multi-microgrid system based on energy routers*”, ICIT 2020, Argentine.
36. Razi, Reza; Pham, Minh-Cong; Hably, Ahmad; Bacha, Seddik; Tran, Quoc-Tuan; Iman-Eini, Hossein, “*Robust hybrid control of parallel inverters for accurate power-sharing in microgrid*”, ICIT 2020, Argentine.
37. Shrivastwa, Ritu; Hably, Ahmad; Bacha, Seddik; Mesnage, Hugo; Guillaume, Renaud, “*An overview of Hybridization of Power sources for Ancillary Service*”, ICIT 2020, Argentine.
38. Schanen, Audrey; Dumon, Jonathan; Meslem, Nacim; Hably, Ahmad, “*Take-off and landing of an AWE system using a multicopter*”, ACC 2020, USA.
39. Hably, Ahmad; Tang, Rattena; Dumon, Jonathan; Carriquiry, Aurelien, “*RobotMe: A drone platform for control education*”, IECON 2019, Portugal.

40. Hably, Ahmad; Hajar, Khaled, “*Electricity issues in Lebanon: Let the people talk*”, TAECE 2019, Lebanon.
41. Shrivastwa, Ritu; Hably, Ahmad; Melizi, Kaouthar; Bacha, Seddik, “*Understanding microgrids and their future trends*”, ICIT 2019, Australie.
42. Gupta, Yashank; Dumon, Jonathan; Hably, Ahmad, “*Power curve analysis of on-ground airborne wind energy systems*”, ICIT 2019, Australie.
43. Schmidt, Eduardo; Gupta, Yashank; Dumon, Jonathan, Hably, Ahmad, “*In-flight estimation of the aerodynamic characteristics of a Magnus effect-based airborne wind energy system*”, REDEC 2018, Lebanon.
44. Hajar, Khaled; Hably, Ahmad; Bacha, Seddik; Elrafhi, Ahmad, “*An economic study of control strategies for microgrids*”, REDEC 2018, Lebanon.
45. Shrivastwa, Ritu; Hably, Ahmad; Debbarma, Sanjoy; Bacha, Seddik, “*Frequency control using V2G and synchronous power controller based HVDC links in presence of wind and PV units*”, IECON 2018, USA.
46. Pham, Minh-Cong; Tran, Quoc Tuan; Bacha, Seddik, Hably, Ahmad; An, Luu Ngoc, “*Optimal Sizing of battery energy storage system for an islanded microgrid*”, IECON 2018, USA.
47. Ovalle, Andres; Hably, Ahmad; Bacha, Seddik, “*Escort evolutionary game dynamics application on a distribution system with PV, BSS and EVs*”, ICIT 2018, France.
48. Gupta, Yashank; Dumon, Jonathan; Hably, Ahmad, “*Modeling and control of a Magnus effect-based airborne wind energy system in crosswind maneuver*”, IFAC WC 2017, France.
49. Hably, Ahmad; Dumon, Jonathan; Smith, Garrett, “*Control of an airborne wind energy system with a Magnus effect*”, ACC 2016, USA.
50. Ovalle, Andres; Bacha, Seddik; Hably, Ahmad; Basu, Kaustav, “*On the most convenient Mixed Strategies in a mixed strategist dynamics approach for load management of Electric vehicle Fleets*”, IECON 2016, Italy.
51. Basu, Kaustav; Hably, Ahmad; Debusschere, Vincent; Bacha, Seddik; Dirven, Geert Jan; Ovalle, Andres, “*A comparative study of low sampling non intrusive load dis-aggregation*”, IECON 2016, Italy.
52. Hajar, Khaled; Hably, Ahmad; Bacha, Seddik; Rafhi, Ahmad; Obeid, Ziad, “*An application of a centralized model predictive control on microgrids*”, IEEE Electrical Power and Energy Conference, EPEC 2016, Canada.
53. Basu, Kaustav; Ovalle, Andres; Guo, Baoling; Hably, Ahmad; Bacha, Seddik; Hajar, Khaled, “*Online forecasting of electrical load for distributed management of plug-in electric vehicles*”, International Conference on Renewable Energies for Developing countries, REDEC 2016, Lebanon.
54. Hajar, Khaled; Hably, Ahmad; Bacha, Seddik; Rafhi, Ahmad; Obeid, Ziad, “*Optimal centralized control application on microgrids*”, International Conference on Renewable Energies for Developing countries, REDEC 2016, Lebanon.
55. Ovalle, Andres; Hably, Ahmad; Bacha, Seddik, “*Mixed strategist dynamics: Electrical vehicle distributed load scheduling*”, IECON 2015, Japan.
56. Hajjar, Salam; Bratcu, Antoneta Iuliana; Hably, Ahmad, “*A Day-ahead centralized unit commitment algorithm for a multi-agent smart grid*”, The Federated Conference on Computer Science and Information Systems, FedCSIS 2015, Poland.

57. Hajar, Khaled; Hably, Ahmad, Elrafhi, Ahmad; Obeid, Ziad; Bacha, Seddik, “*Optimization of a microgrid with renewable energy and distributed generation: a case study*”, The 9th International Conference on System Theory, Control and Computing, ICSTCC 2015, Romania.
58. Fernandez, Julian; Hably, Ahmad, Bratcu, Antoneta Iuliana, “*Assessing the economic profit of a vehicle-to-grid strategy for current unbalance minimization*”, IEEE International Conference on Industrial Technology, ICIT 2015, Spain.
59. Ovalle, Andres; Hably, Ahmad; Bacha, Seddik, “*Optimal management and integration of electric vehicles to the grid: Dynamic programming and game theory approach*”, IEEE International Conference on Industrial Technology, ICIT 2015, Spain.
60. Fernandez, Julian; Bacha, Seddik; Riu, Delphine; Hably, Ahmad, “*Plug-in electric vehicle collaborative charging for current unbalance minimization: Ant system optimization application*”, IEEE International Conference on Industrial Technology, ICIT 2015, Spain.
61. Ding, Haiyang; Alamir, Mazen; Bonne, Francois; Hably, Ahmad; Bonnay, Patrick, “*Distributed cooperative control framework of a cryogenic system*”, IEEE International Conference on Industrial Technology, ICIT 2015, Spain.
62. Hably, Ahmad; Marchand, Nicolas, “*Bounded control of a general extended chained form systems*”, 53rd IEEE Conference on Decision and Control, CDC 2014, USA.
63. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik; Ovalle, Andres, “*Kite generator system: Grid integration and validation*”, IECON 2014, USA.
64. Ovalle, Andres; Bacha, Seddik; Hably, Ahmad, “*Voltage support by optimal integration of plug-in hybrid electric vehicles to a residential grid*”, IECON 2014, USA.
65. Ding, Haiyang; Alamir, Mazen; Hably, Ahmad, “*A distributed cooperative control scheme with optimal priority assignment and stability assessment*”, IFAC world congress 2014, South Africa
66. Harun, Turker; Bacha, Seddik; Hably, Ahmad, “*Application of housing peak shaving (HPS) algorithms with plug-in hybrid electric vehicles (PHEVs): Impacts on the aging rate of low voltage transformer*”, Saudi Arabia Smart Grid 2013.
67. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik, “*Kite generator system periodic motion planning via virtual constraints*”, IECON 2013, Austria.
68. Lozano, Rogelio Jr; Dumon, Jonathan; Hably, Ahmad; Alamir, Mazen, “*Energy production control of an experimental kite system in presence of wind gusts*”, Proceedings of the IEEE/RSJ IROS 2013, Japan.
69. Lozano, Rogelio Jr; Dumon, Jonathan; Hably, Ahmad, “*Reverse pumping: theory and experimental validation on a multi-kites system*”, Proceedings of the 17th International Conference on System Theory, Control and Computing Joint Conference 2013, Romania.
70. Nwesaty, Waleed; Bratcu, Antoneta Iuliana; Hably, Ahmad, “*Extremum seeking control techniques applied to photovoltaic systems with multimodal power curves*”, ICRERA 2013, Spain.
71. Harun, Turker; Hably, Ahmad; Bacha, Seddik, “*Housing peak shaving algorithm (HPSA) with plug-in hybrid electric vehicles (PHEVs): Vehicle-to-Home (V2H) and Vehicle-to-Grid (V2G) concepts*”, POWERENG 2013.
72. Hably, Ahmad; Lozano, Rogelio Jr; Alamir, Mazen; Dumon, Jonathan, “*Observer-based control of a tethered wing wind power system: indoor real-time experiment*”, ACC 2013, USA.
73. Turker, Harun; Hably, Ahmad; Bacha, Seddik, “*Smart Charging of plug-in hybrid electric vehicles (PHEVs) on the residential electric grid regarding the voltage plan*”, IEEE International IEVC 2013, Turkey.

74. Harun, Turker; Hauck, Matthieu; Hably, Ahmad; Bacha, Seddik, “*A tool of Vehicle-to-Grid (V2G) concept for voltage plan control of residential electric grid areas with plug-in hybrid electric vehicles (PHEVs)*”, IECON 2012, Canada.
75. Turker, Harun; Hably, Ahmad; Bacha, Seddik, “*Dynamic programming for optimal integration of plug-in hybrid electric vehicles (PHEVs) in residential electric grid areas*”, IECON 2012, Canada.
76. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik, “*High altitude wind power systems: A survey on flexible power kites*”, ICEM 2012, France.
77. Hauck, Matthieu; Rumeau, Axel; Munteanu, Iulian; Bratcu, Antoneta Iuliana; Bacha, Seddik; Roye, Daniel; Hably, Ahmad, “*A 1:1 prototype of power generation system based upon cross-flow water turbines*”, ISIE 2012, China.
78. Ahmed, Mariam; Murillo-Cruz, Sergio-Camilo; Hably, Ahmad; Bacha, Seddik, “*A comparative study on a pumping wave energy conversion system*”, ISIE 2012, China.
79. Turker, Harun; Bacha, Seddik; Chatroux, Daniel; Hably, Ahmad, “*Modeling of system components for Vehicle-to-Grid (V2G) and Vehicle-to-Home (V2H) applications with plug-in hybrid electric vehicles (PHEVs)*”, IEEE PES ISGT 2012, USA.
80. Turker, Harun; Hably, Ahmad; Bacha, Seddik; Chatroux, Daniel, “*Rule-based algorithm for plug-in hybrid electric vehicles (PHEVs) integration in residential electric grid areas*”, IEEE PES ISGT 2012, USA.
81. Turker, Harun; Bacha, Seddik; Chatroux, Daniel; Hably, Ahmad, “*Aging rate of low voltage transformer for a high penetration of plug-in hybrid electric vehicles (PHEVs)*”, IEEE PES ISGT 2012, USA.
82. Turker, Harun; Hauck, Matthieu; Hably, Ahmad; Bacha, Seddik, “*A tool of Vehicle-to-Grid (V2G) concept for voltage plan control of residential electric grid areas with Plug-in Hybrid Electric Vehicles (PHEVs)*”, IECON 2012, Canada.
83. Lozano Jr, Rogelio; Alamir, Mazen; Dumon, Jonathan; Hably, Ahmad, “*Control of a wind power system based on a tethered wing*”, EGNCA 2012, India.
84. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik, “*Grid-connected kite generator system: electrical variables control with MPPT*”, IECON 2011, Australia.
85. Alamir, Mazen; Hably, Ahmad; Ding, Haiyang, “*A Novel distributed NMPC control structure for partially cooperative systems under limited information sharing*”, IFAC World Congress 2011, Italy.
86. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik, “*Power maximization of a closed-orbit kite generator system*”, CDC-ECC 2011, USA.

Pendant ma thèse:

87. Guerrero Castellanos, Fermi; Hably, Ahmad; Marchand, Nicolas, “*Bounded attitude stabilization: Application on four-rotor helicopter*”, Proceedings of the 2007 IEEE International Conference on Robotics and Automation, ICRA 07, Italy.
88. Hably, Ahmad; Marchand, Nicolas, “*Global stabilization of a four rotor helicopter with bounded inputs*”, Proceedings of the 2007 IEEE International Conference on Intelligent Robots and Systems, IROS 07, USA.
89. Marchand, Nicolas; Hably, Ahmad; Alamir, Mazen, “*Constrained minimum time oriented stabilization of extended chained form systems*”, Proceedings of the 2005 joint Conference on Control and Decision and European Control Conference. Spain.
90. Marchand, Nicolas; Hably, Ahmad, “*Improving the performance of nonlinear stabilization of multiple integrators with bounded controls*”, IFAC World congress 2005, Czech Republic.

1.6 Articles dans des Congrès Nationaux

1. Hably, Ahmad; Dumon, Jonathan, “*Observation et commande par retour d’état d’un procédé de bacs communicants*”, CETSIS 2011, Canada.
2. Ovalle Andres, Bacha Seddik; Hably, Ahmad, “*Intégration Optimale des Véhicules Électriques Hybrides Rechargeables dans un Réseau Résidentiel*”, Dans Journées des Jeunes Chercheurs en Génie Électrique (JCGE’14), 2014 Saint-Louis, France.

1.7 Abstracts

1. Turker, Harun; Bacha, Seddik; Hably, Ahmad, “*Smart Charging of Plug-in Hybrid Electric Vehicles (PHEVs) on the Residential Electric Grid regarding the Voltage Plan*”, IEEE ENERGY CONVERSION CONGRESS & EXPO 2013, USA.
2. Hably, Ahmad; Dumon, Jonathan, “*Éoliennes Volantes: Airborne Wind Energy Activities at the Gipsa-Lab*”, AWEC 2015, Netherlands.
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