

Ahmad HABLY's publication list

Last update

October 23, 2024

- Ouvrage: 1
- Revues internationales avec comités de lecture : 28
- Revues nationales avec comités de lecture : 1
- Brevets : 1
- Conférences internationales avec actes et chapitres de livre : 96
- Conférences nationales : 2
- Abstracts: 10
- [Cliquer ici pour voir l'ORCID](#)

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. Azaki, Zakeye;Dumon, Jonathan; Offermann, Alexis; Meslem, Nacim; Susbielle, Pierre; Negre, Amaury ; Hably, Ahmad, “**Magnus-Effect Winged Hybrid UAV System: Improved Energy Efficient and Autonomy Through Control Allocation Strategy**”, *IEEE Transactions on Aerospace and Electronic Systems*(2024).
2. Niddam, Ethan; Dumon, Jonathan; Cuvillon, Loic; Durand, Sylvain; Querry, Stephane; Hably, Ahmad; Gangloff, Jacques, “**Design of a Suspended Manipulator with Aerial Elliptic Winding** ”, *IEEE Robotics and Automation Letters* (2024), (9):7939-7946.
3. Meslem, Nacim; Ahmad Hably; Zhenhua Wang; Tarek Raïssi, “**Set-Valued State Estimator With Sparse and Delayed Measurements for Uncertain Discrete-Time Linear Systems**”, *IEEE Control Systems Letters* (2024), (8):904-909.
4. 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).
5. Carvalho, Estéban; Susbielle, Pierre; Marchand, Nicolas; Hably, Ahmad; S. Dibangoye, Jilles, “**Event-based Neural Learning for Quadrotor Control**”, *Journal of Autonomous Robots* (2023).

6. Tnunay, Hilton; Moussa, Kaouthar; Hably, Ahmad; Marchand, Nicolas, “***Distributed Finite-Time Coverage Control of Multi-Quadrotor Systems with Switching Topology***”, *Mathematics* (2023), 11 (12).
7. Meslem, Nacim; Ahmad Hably; 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.
8. 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.
9. 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).
10. Meslem, Nacim; Hably, Ahmad; Raïssi, Tarek, “***Zonotopic unknown input state estimator for discrete-time linear systems***”, *Systems & Control Letters* (2022).
11. 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.
12. 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.
13. 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).
14. 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.
15. Meslem, Nacim; Hably, Ahmad, “***Robust set-membership state estimator against outliers in data***”, *IET Control Theory & Applications* (2020) 14 (13), p. 1752-1761.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.

22. 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.
23. 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.
24. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik, “**Kite generator system modeling and grid integration**”, *IEEE Transactions on Sustainable Energy* (2013) , **4**, **4**, p. 968-976.
25. 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.
26. 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:

27. 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.
28. 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; Mehra, 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. Hobeika, Jacques; Seif, Tina; Tawil, Samir; Matta, Sergio; Eid, Oriana; Nassar, Ivana; Abdul Samad El Skaff, , Rayan; Kanaan, Hadi; Hably, Ahmad , “**Design of an aerial PV cleaner**”, *IECON 2024*.

2. Daoud, Mohamed Nadhir; Seddik, Hassene; Hably, Ahmad; Ben Jabeur, Chiraz , ***“Pursuit-Evasion Game in a bounded game area using deep reinforcement learning and self-play ”*** , *Codit 2024*.
3. Meslem, Nacim; Hably, Ahmad; Ramdani, Nacim, ***“Secure State Estimator for Uncertain Discrete-Time Linear Systems Based on Set-Valued Consistency Techniques ”***, *Codit 2024*.
4. 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*.
5. Sani, Mukhtar; Hably, Ahmad; Robu, Bogdan; Dumon, Jonathan; Meslem, Nacim, ***“Real-time Dynamic Obstacle Avoidance For A Non-holonomic Mobile Robot”***, *IEEE ISIE23*.
6. Azaki, Azaki; Dumon, Jonathan; Meslem, Nacim; Hably, Ahmad, ***“Sliding Mode Control of Tethered Drone: Take-off and Landing under Turbulent Wind conditions”***, *ICUAS 2023*.
7. 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)*.
8. 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*.
9. 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*.
10. Tnunay, Hilton; Moussa, Kaouther; Hably, Ahmad; Marchand, Nicolas, ***“Distributed Finite-time Coverage Control of Multi-quadrotor Systems”***, *IECON 2022*.
11. 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*.
12. Meslem, Nacim; Hably, Ahmad; Raïssi, Tarek; Wang, Zhenhua, ***“Reliable Unknown Input Observer for Continuous-Time Linear Systems”***, *SAFEPROCESS 2022*.
13. Carvalho, Esteban; Susbielle, Pierre; Hably, Ahmad; Dibangoye, Jille; Marchand, Nicolas, ***“Neural Enhanced Control for Quadrotor Linear Behavior Fitting”***, *ICUAS 2022*.
14. Zakeye. Azaki; Dumon, Jonathan; Meslem, Nacim; Hably, Ahmad; Susbielle, Pierre, ***“Modelling and control of a tethered drone for an AWE application”***, *ICCAD 2022*.
15. 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 ”***, *CIREN 2022*.
16. 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*.
17. 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*.
18. 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*.

19. 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.
20. Sani, Mukhtar; Robu, Bogdan; Hably, Ahmad, “**Limited Information Model Predictive Control for Pursuit-evasion Games**”, CDC 2021.
21. Sani, Mukhtar; Robu, Bogdan; Hably, Ahmad, “**Pursuit-evasion Games Based on Game-theoretic and Model Predictive Control Algorithms**”, ICCAD 2021.
22. 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.
23. 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.
24. 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.
25. Moussa, Kaouter; Tnunay, Hilton; Hably, Ahmad; Marchand, Nicolas, “**Smooth Visual-Coverage Path Planning for Escort Missions using UAVs**”, IECON 2021.
26. Tnunay, Hilton; Moussa, Kaouter; Hably, Ahmad; Marchand, Nicolas, “**Virtual Leader based Trajectory Generation of UAV Formation for Visual Area Coverage**”, IECON 2021.
27. Sani, Mukhtar; Robu, Bogdan; Hably, Ahmad, “**Dynamic Obstacles Avoidance Using Nonlinear Model Predictive Control** ”, IECON 2021.
28. 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.
29. Sani, Mukhtar; Robu, Bogdan; Hably, Ahmad, “ **Limited Information Model Predictive Control for Pursuit-evasion Games**”, CDC 2021.
30. 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.
31. Meslem, Nacim; Hably, Ahmad, “ **Reachability-Based Approach to Design Interval State Observers**”, 24th International Symposium on Mathematical Theory of Networks and Systems, UK.
32. 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.
33. M. Mehraza; 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.
34. A. Zafari; M. Mehraza; 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.
35. Meslem, Nacim; Hably, Ahmad; Raïssi, Tarek, “ **Partial and Full Order Interval Unknown Input State Estimators**”, CoDIT 2020, Czech Republic.

36. Sani, Mukhtar; Robu, Bogdan; Hably, Ahmad, “ *Pursuit-evasion Game for Nonholonomic Mobile Robots With Obstacle Avoidance using NMPC*”, MED 2020, France.
37. Ovalle, Andres; Hably, Ahmad; Bacha, Seddik, “*Evolution representation with limited hosting capacities: A comparison between MSD and IEED*”, ICIT 2020, Argentine.
38. 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.
39. 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.
40. Shrivastwa, Ritu; Hably, Ahmad; Bacha, Seddik; Mesnage, Hugo; Guillaume, Renaud, “*An overview of Hybridization of Power sources for Ancillary Service*”, ICIT 2020, Argentine.
41. Schanen, Audrey; Dumon, Jonathan; Meslem, Nacim; Hably, Ahmad, “*Take-off and landing of an AWE system using a multicopter*”, ACC 2020, USA.
42. Hably, Ahmad; Tang, Rattena; Dumon, Jonathan; Carriquiry, Aurelien , “*RobotMe: A drone platform for control education*”, IECON 2019, Portugal.
43. Hably, Ahmad; Hajar, Khaled, “*Electricity issues in Lebanon: Let the people talk*”, TAECE 2019, Lebanon.
44. Shrivastwa, Ritu; Hably, Ahmad; Melizi, Kaouthar; Bacha, Seddik, “*Understanding microgrids and their future trends*”, ICIT 2019, Australie.
45. Gupta, Yashank; Dumon, Jonathan; Hably, Ahmad, “*Power curve analysis of on-ground airborne wind energy systems*”, ICIT 2019, Australie.
46. 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.
47. Hajar, Khaled; Hably, Ahmad; Bacha, Seddik; Elrafhi, Ahmad, “*An economic study of control strategies for microgrids*”, REDEC 2018, Lebanon.
48. 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.
49. 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.
50. Ovalle, Andres; Hably, Ahmad; Bacha, Seddik, “*Escort evolutionary game dynamics application on a distribution system with PV, BSS and EVs*”, ICIT 2018, France.
51. 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.
52. Hably, Ahmad; Dumon, Jonathan; Smith, Garrett, “*Control of an airborne wind energy system with a Magnus effect*”, ACC 2016, USA.
53. 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.
54. 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.

55. 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.
56. 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.
57. 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.
58. Ovalle, Andres; Hably, Ahmad; Bacha, Seddik, “*Mixed strategist dynamics: Electrical vehicle distributed load scheduling*”, IECON 2015, Japan.
59. 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.
60. 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.
61. 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.
62. 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.
63. 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.
64. 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.
65. Hably, Ahmad; Marchand, Nicolas, “*Bounded control of a general extended chained form systems*”, 53rd IEEE Conference on Decision and Control, CDC 2014, USA.
66. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik; Ovalle, Andres, “*Kite generator system: Grid integration and validation*”, IECON 2014, USA.
67. Ovalle, Andres; Bacha, Seddik; Hably, Ahmad, “*Voltage support by optimal integration of plug-in hybrid electric vehicles to a residential grid*”, IECON 2014, USA.
68. Ding, Haiyang; Alamir, Mazen; Hably, Ahmad, “*A distributed cooperative control scheme with optimal priority assignment and stability assessment*”, IFAC world congress 2014, South Africa
69. 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.
70. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik, “*Kite generator system periodic motion planning via virtual constraints*”, IECON 2013, Austria.
71. 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.

72. 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.
73. Nwesaty, Waleed; Bratcu, Antoneta Iuliana; Hably, Ahmad, “*Extremum seeking control techniques applied to photovoltaic systems with multimodal power curves*”, ICRERA 2013, Spain.
74. 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.
75. 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.
76. 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.
77. 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.
78. 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.
79. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik, “*High altitude wind power systems: A survey on flexible power kites*”, ICEM 2012, France.
80. 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.
81. Ahmed, Mariam; Murillo-Cruz, Sergio-Camilo; Hably, Ahmad; Bacha, Seddik, “*A comparative study on a pumping wave energy conversion system*”, ISIE 2012, China.
82. 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.
83. 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.
84. 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.
85. 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.
86. Lozano Jr, Rogelio; Alamir, Mazen; Dumon, Jonathan; Hably, Ahmad, “*Control of a wind power system based on a tethered wing*”, EGNCA 2012, India.
87. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik, “*Grid-connected kite generator system: electrical variables control with MPPT*”, IECON 2011, Australia.
88. 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.

89. Ahmed, Mariam; Hably, Ahmad; Bacha, Seddik, “*Power maximization of a closed-orbit kite generator system*”, CDC-ECC 2011, USA.

Pendant ma thèse:

90. 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.
91. 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.
92. 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.
93. 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.
3. Hably, Ahmad; Dumon, Jonathan; Catel, Aurélie; Karine Samuel, “*AWE systems in an innovation course*”, AWEC 2017, Germany.
4. Gupta, Yashank; Dumon, Jonathan; Hably, Ahmad, “*Modeling and Control of Magnus Effect-Based AWE Systems*”, AWEC 2017, Germany.
5. Dumon, Jonathan; Hably, Ahmad; Gupta, Yashank; Meslem, Nacim; Schanen, Audrey, “*Power Curve Analysis Of Airborne Wind Energy Systems*”, AWEC 2019, Scotland.
6. Schanen, Audrey; Dumon, Jonathan; Meslem, Nacim; Ahmad Hably, “*On Using Drones for the Take-off and Landing Phases of an AWE System*”, AWEC 2019, Scotland.
7. Schanen, Audrey; Dumon, Jonathan; Meslem, Nacim; Hably, Ahmad, “*Experimental Results on drone-based Take-Off and Landing of an AWE System*”, WESC 2021, Germany.
8. Schanen, Audrey; Azaki, Zakeye; Dumon, Jonathan; Hably, Ahmad; Meslem, Nacim, “*Experimental Validation on Using Drones for the Take-off and Landing Phases of an AWE System*”, AWEC 2022, Italy.
9. Hably, Ahmad; Schanen, Audrey; Dumon, Jonathan; Meslem, Nacim, “*Estimation of Unknown Aerodynamic Forces of an AWE System*”, AWEC 2022, Italy.
10. Azaki, Zakeye; Dumon, Jonathan; ;Meslem, Nacim; Susbielle, Pierre; Alexis Offermann; Amaury Nègre; Hably, Ahmad, “*Optimizing Take-off and Landing Control of Magnus Effect-Based Quadcopter AWES in Challenging Wind Conditions*”, AWEC 2024, Spain.

1.8 Articles soumis

1. Carvalho, Estéban; Susbielle, Pierre; Hably, Ahmad; S. Dibangoye, Jilles; Marchand, Nicolas, ***“Neural Network Assisted Linearization Control for Quadrotor Flight with Unknown Suspended Payload”***, *Journal of Robotics and Autonomous Systems*.