



Aidoud Mohammed

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Objective

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- Develop and benefit from the vast experience in the field of scientific research and teaching in the higher education sector.

Formation

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- Obtained a baccalaureate in mathematics at lycée hammam N'bails guelma, algerie. in 1992.
 - Obtained a engineering degree in electronics at the university of Guelma, algeria, in 1997.
 - Obtained a Master's degree in Electronics from the University of Guelma, Algeria, in 2004.
 - Obtained a doctorate in automatic control from the University of Skikda, Algeria, in 2018

Teaching courses

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- Signal processing
 - Industrial automation
 - Advanced control technique
 - Sensors and measurements
 - General electronics

Supervision of students

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1. Classic system:
Supervision of state engineers.
 2. LMD system:
Supervision of LMD Licence.
Supervision of Master LMD.

Teaching documents

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1. Course handout intitiled : " Commande Avancée".
 2. Course document entitled: "Industrial automation"

Scientific publications

1. **Aidoud, M.**, Sedraoui, M., Lachouri, A. et al. (2016) " Robustified GPC controller based on H-infinity robust control for an hydraulic actuator ", *Journal of the Brazilian Society of Mechanical Sciences and Engineering*. 38(7), 2181–2188. <https://doi.org/10.1007/s40430-015-0406-5>
2. **Aidoud, M.**, Sedraoui, M., Lachouri, A., & Boualleg, A. (2018). A robustification of the two degree-of-freedom controller based upon multivariable generalized predictive control law and robust H_∞ control for a doubly-fed induction generator. *Transactions of the Institute of Measurement and Control*, 40(3), 1005–1017. <https://doi.org/10.1177/0142331216673425>
3. **M Aidoud**, CE Feraga, M Bechouat, M Sedraoui, S Kahla, (2019). Development of photovoltaic cell models using fundamental modeling approaches, *Energy Procedia* 162, 263-274, <https://doi.org/10.1016/j.egypro.2019.04.028>
4. **M Aidoud**, CE Feraga, M Bechouat, M Sedraoui, S Kahla, (2019). A Comparative Analysis Of Different Photovoltaic Cells Models Based On Fundamental Modeling Approaches, *International Journal of Scientific Research & Engineering Technology (IJSET)* 7(2), 21-26, http://ipco-co.com/IJSET/IJSET_vol7_Iss2_en.html
5. M. Bechouat, M. Sedraoui, C.-E. Feraga, **M. Aidoud**, S. Kahla, (2019). Modeling and Fuzzy MPPT Controller Design for Photovoltaic Module Equipped with a Closed-Loop Cooling System, *Journal of Electronic Materials*, Volume 48, **Issue 9**, pp 5471–5480, <https://doi.org/10.1007/s11664-019-07243-1>

International conferences

1. **M.Aidoud**, M.Sedraoui, C-E.Feraga, A.Sebbagh. Robustification of the generalized predictive law (GPC) by the implicit application of the H_∞ method, 5th International Conference of Computing for Engineering and Sciences, ICCES'2019, July 20–22, 2019, Hammamet, Tunisia. <https://doi.org/10.1145/3361570.3361601>.
2. A.Sebbagh, S. Kechida, **M.Aidoud**. Maneuvering Target Tracking with Bearings-Only Measurement, 5th International Conference of Computing for Engineering and Sciences, ICCES'2019, July 20–22, 2019, Hammamet, Tunisia, <http://www.ijist.net/ICCES2019>.
3. **M.Aidoud**, M.Sedraoui, C-E.Feraga, A.Sebbagh. Robustification of Generalized Internal Model Control based on the H_∞ method for the stabilization and tracking of a Hydraulic Actuator system, The International Conference on Recent Advances in Robotics and Automation (ICRARA'19), Sousse, Tunisia in June 29-30, 2019, Tunisia, <http://icrara.org>. [ICRARA'19 paper](http://icrara.org).
4. A.Sebbagh, S. Kechida, **M.Aidoud**. "Multiple Targets Tracking with bearing only Measurement", The International Conference on Recent Advances in Robotics and Automation (ICRARA'19), Sousse, Tunisia in June 29-30, 2019, Tunisia, <http://icrara.org>.
5. **M.Aidoud**, C-E.Feraga, M.Bechouat, M. Sedraoui, S. Kahla" A Comparative Analysis Of Different Photovoltaic Cells Models Based On Fundamental Modeling Approaches " 5th International Conference on Automation, Control Engineering & Computer Science (ACECS-2018). http://ipco-co.com/PET_Journal/PET_Issues.html.
6. Amieur, T., Younsi, A., **Aidoud, M.**, Sedraoui, M., & Amieur, O. (2017, March). Design of robust fractional order PID controller using fractional weights in the mixed sensitivity problem. In 2017 14th International Multi-Conference on Systems, Signals & Devices (SSD) (pp. 549-553). IEEE (<https://ieeexplore.ieee.org/document/8166986>).

National conferences

1. A.H. Boualleg, M.derche, M. Sedraoui, A.Menasria, **M Aidoud** « improved face recognition based patch lbp using weberface under variation illumination » , Journée Doctorale 2018 (JD'18), 13/ Décembre 2018 Guelma, Algeria <http://laig.univ-guelma.dz/sites/laig.univ-guelma.dz/files/JD18.pdf>

2. **M.Aidoud**, M. Sedraoui ,C-E. Feraga , A.H.Boualleg,A. Menasria« robustification de la loi de commande prédictive généralisée (GPC) par l'application implicite de la méthode H_{∞} », Journée Doctorale 2018 (JD'18), 13/ Décembre 2018 Guelma, Algeria <http://laig.univ-guelma.dz/sites/laig.univ-guelma.dz/files/JD18.pdf>
3. A. Menasria, A. Bennia, M.Sedraoui, A.H.Boualleg, **M. Aidoud** , H. Bourouba « système de reconnaissance des montants littéraux des chèques arabes», Journée Doctorale 2018 (JD'18), 13/ Décembre 2018 Guelma, Algeria <http://laig.univ-guelma.dz/sites/laig.univ-guelma.dz/files/JD18.pdf>

Research project

1. 2014-2017: CNEPRU titled: Robustification de la commande prédictive généralisée polynomiale par l'utilisation de la paramétrisation de Youla et l'optimisation heuristique moderne.
2. 2018-2021: PRFU titled: Apport des principales approches avancées dans la modélisation et la commande robuste des systèmes de production d'énergies renouvelables.

Qualifications

1. Good knowledge of information technology and office automation tools.
2. good knowledge of programming and simulation software.
3. Proficiency in languages of scientific research, education and communication, such as Arabic, French and English.
4. Work as a teacher-researcher in the higher education sector in an ethical and responsible manner.
5. Work in unison with the members of the teaching team.
6. Ability to communicate clearly and easily in different contexts related to the teaching profession.

Interests

1. Robustification of standard controllers,
2. Generalized Predictive Control,
3. Advanced Control.
4. Energie renouvelable.

Scientific collaborations

- Automation and Robotics Group (ARG), Universidad de Castilla-La Mancha– UCLM, Spain

Contact

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