1. **Name and Academic Rank:** Khaled Abdelghani Chahine, Associate Professor, Full Time
2. **Education: Degrees, Discipline, Institution and Date:**
   - Ph.D., Electrical and Electronics Engineering, University of Nantes, France, 2010.
   - M.Sc., Electronic Systems and Electrical Engineering, Polytech'Nantes, France, 2007.
   - B.E., Electrical and Electronics Engineering, Lebanese University Faculty of Engineering, Branch III, Beirut, Lebanon, 2007.
3. **Work Experience**
   - Beirut Arab University, Electrical and Computer Engineering Department, Electrical Power and Machines Engineering Program, Associate Professor, September 2016 – Present, Full Time.
   - Lebanese International University, Electrical and Electronics Engineering Department, Assistant Professor, 2011 – 2016, Full Time.
   - Blaise Pascal University and Landis+Gyr, Postdoc, 2010 – 2011.
4. **Honors and Awards**
   - Second-Place Award, Automated Solid Waste Segregation, *19th Engineering Projects Day (Smart Structures)*, Beirut Arab University, Debbieh, May 2017.
   - First-Place Award, A Smart Reverse Osmosis System, 1st Innovate for Lebanon National Competition (Water and Wastewater Track), Rafik Hariri University, May 2017.
5. **Service Activities**
   - Reviewer: Signal Processing, IET Signal Processing, Journal of Computing in Civil Engineering, Near Surface Geophysics, European Signal Processing Conference EUSIPCO, International Workshop on Advanced Ground Penetrating Radar.
6. **Research Interests**
   - Control Theory
   - Statistical Signal Processing
   - Inverse Problems
   - Non-destructive Testing and Evaluation
   - Nonintrusive Appliance Load Monitoring.
7. **National Research Cooperation**
   - Project 1 in collaboration with the Lebanese University
     a. Title: Smart Poultry Farm Control Using Wireless Sensor Network Based on ZigBee
     b. Grant: 10,000,000 LBP from the Lebanese University
     c. Duration: 1 year (2017 - 2018)
   - Project 2 in collaboration with the Lebanese International University
     a. Title: Development of a Novel Signal Processing Technique Applied to the PEA Cell Used for the Electrical Characterization of Insulators
     b. Grant: 14,000,000 LBP from the CNRS
     c. Duration: 2 years (2017 - 2019)
8. **Principal Publications and Presentations**

9.1 Journal Publications

1. **K. Chahine**. Rotor Fault Diagnosis in Induction Motors by the Matrix Pencil Method and Support Vector Machine. International Transactions on Electrical Energy Systems, Vol. 28, Issue 10, **2018**.
2. **K. Chahine**, R. Murr, M. Ramadan, H. El Hage, and M. Khaled. Use of Parabolic Troughs in HVAC Applications – Design, Calculations and Analysis. Case Studies in Thermal Engineering, Vol. 12, Pages 285-291, **2018**.
3. M. Kanaan and **K. Chahine**. CFD Study of Ventilation for Indoor Multi-Zone Transformer Substation. International Journal of Heat and Technology, Vol. 36, Issue 1, Pages 88-94, **2018**.
4. **K. Chahine** and B. Ghazal. Automatic Sorting of Solid Wastes Using Sensor Fusion. International Journal of Engineering and Technology, Vol. 9, Issue 6, Pages 4408-4414, **2017**.
5. B. Ghazal, K. Khatib, and **K. Chahine**. A Poultry Farming Control System Using a ZigBee-Based Wireless Sensor Network. International Journal of Control and Automation, Vol. 10, Issue 9, Pages 191-198, **2017**.
6. M. Tarnini, N. Abdel Karim, and **K. Chahine**. Simulation of Leakage Current and THD Compensation in a Large PV System. International Journal of Applied Engineering Research, Vol. 12, Issue 19, Pages 8602-8608, **2017**.

9.2 Papers Book Section

1. C. Le Bastard, **K. Chahine**, Y. Wang, V. Baltazart, N. Pinel, C. Bourlier, and X. Derobert. Microwave Nondestructive Testing of Non-Dispersive and Dispersive Media Using High-Resolution Methods. Book Non-Destructive Testing, Intech (ID 5223), July **2016**.

9.3 Conference Proceedings

1. N. Meselmani, M. Khrayzat, **K. Chahine**, M. Ghantous, and M. Hajj-Hassan. Pattern recognition of EMG signals: Towards adaptive control of robotic arms. IMCET, November **2016**, Beirut, Lebanon.
2. M. Arnaout, **K. Chahine**, and W. Salameh. Modeling and simulating a PWP cell for the electric characterization of space dielectric materials. ACTEA, July **2016**, Beirut, Lebanon.
3. A. Haddad, M. Ramadan, M. Khaled, and **K. Chahine**. An Investigation on Coupling Fuel Cell and Photovoltaic Systems for Power Generation. ACTEA, July **2016**, Beirut, Lebanon.
4. **K. Chahine**, M. Khaled, Z. Merhi, H. Jaber, and M. Ramadan. Power Generation from TEG: Parametric Analysis and New Concept. ICREGA, 8-10 February **2016**, Belfort, France. (Selected for a special issue)
5. B. Ghazal, K. El-Khatib, **K. Chahine**, and M. Kherfan. Smart Traffic Light Control System. EECEA2016, 21-23 April **2016**, Lebanese University, Faculty of Engineering, Beirut, Lebanon.
6. M. Arnaout, **K. Chahine**, M. Mannah, and R. Rammal. An Educational Electric Power Simulator. ACTEA2016, 13-15 July **2016**, Notre Dame University, Zouk Mosbeh, Lebanon.
7. M. Arnaout, W. Salameh, A. Assi, and **K. Chahine**. My PV TOOL: A MATLAB-Based Tool to Study the Series and Shunt Resistances in Photovoltaic Modules. REDEC2016, 13-15 July **2016**, Notre Dame University, Zouk Mosbeh, Lebanon.