



Name: Dr. Hassan Mohammad Radhwan Salti

Rank: Assistant Professor

Title: Head of Electrical and Electronics Engineering Department

Personal Information

Nationality: Lebanese

AU Joining Date: 17 Aug 2014

E-Mail Address: h.salti@au.edu.kw

Professional Information

Education: PhD - National Institute of Applied Sciences – INSA of Rennes, France, November 2010.
Specialty: Electronics, Grade: Very honorable.

Engineer Diploma (Equivalent to MSc)
Lebanese University - Faculty of Engineering, Branch I – ULFG1, July 2007.
Specialty: Telecommunications and Computer, Grade: Excellent.

Specialization: Electronics
Telecommunication & Computer

Current Academic Position: Assistant Professor

Current Professional Positions: NA

Previous Administrative Position Held: **Deputy Head of Electrical and Electronics Engineering Department at the Australian University, Kuwait**
August 2016 – June 2017
Faculty Representative at the Arab Open University – Kuwait Branch
October 2013 – July 2014
Vice-Students' representative in INSA of Rennes's Scientific Committee – France
October 2008 – July 2009

Previous Academic Positions Held: **Assistant Professor – Full Time**
October 2011 – August 2014

	Arab Open University, AOU – Kuwait Branch, Al Ardia, Kuwait.
Fellowships And Honors:	<p>Institute of Electrical and Electronics Engineers (IEEE) – Member</p> <p>Engineers Australia – Chartered Professional Engineer.</p> <p>Orders of Engineers, Tripoli, Lebanon – Member.</p> <p>AU - University of Engineering's Best Instructor Award 2015/2016.</p>
Teaching Experience:	<p>Full Time Assistant Professor at the Australian University, Kuwait August 2014 – Present</p> <ul style="list-style-type: none"> - Technological Thesis – 151ELE445: Graduation projects supervision. - Digital Signal Processing – 151ELE435: Sampling, quantization, analogue to digital conversion, digital to analogue conversion, signal characterization and transformation, discrete Fourier transform, fast Fourier transform, z-transform. - C++ Programming – 151ELE311: Programming Logic, Algorithms, C++ programming language. - Programmable Logic Controllers – 151ELE323: Digital Logic, Boolean Algebra, PLC internal architecture, PLC components, Ladder diagrams, PLC programming. - Circuit Analysis I & II – 151ELE111 & 15FELE120 AC/DC voltage and current, series and parallel AC/DC circuits, Superposition Principles, Mesh and Nodal Analysis, Thévenin and Norton Principles, Star-Delta conversion, Transformers, resonance circuits, filters, AC/DC Power and power factor correction. - Microprocessors/Microcontrollers – UEENEED150A, D151A, I155A, H115A: Microprocessors/controllers architecture, Assembly language, Embedded C programming, Microcontrollers interfacing. <p>Full Time Assistant Professor at Arab Open University, Kuwait October 2011 – August 2014</p> <ul style="list-style-type: none"> - Communication and Information Technologies – T325, T215 and T209: Communication & Information systems, storage devices, LAN, WLAN, communication protocols, service-oriented architectures, PSTN, Mobile phones systems (GSM, UMTS, 3G, 4G), GPS, Information systems security (encryption/decryption techniques, security protocols, security issues in large networks), LAN and WLAN security, Error coding, Data compression techniques, Cyborgs, Speech recognition. - Computer organization and architecture – T103: Von-Neumann and non-Von-Neumann models, Binary systems and arithmetic, Boolean Algebra, Combinational and sequential logic, Assembly language, Memory mapping and addressing. - Networked living – T175A: Information and communication systems, wired and wireless networks, analog to digital conversion,

	<p>input devices, compression techniques, communication channels characterization (wired and wireless).</p> <ul style="list-style-type: none"> - Data, Computing and Information – M150: Boolean arithmetic, flowcharts, Java script. - Learning Online – TU170: E-learning, computing essentials. <p>Part Timer at INSA of Rennes (Engineering College), France October 2007 - November 2010 Hyper-frequencies circuits, MMIC Lab (Monolithic Microwave Integrated Circuits), Antennas Lab, Electronics and non-linear systems Lab, Computers Architecture Lab (Assembly Language), Operating systems Lab (Linux). Degrees: 2nd, 3rd, 4th and 5th year of Engineering College and Master Degree.</p>
<p>Industrial And Technical Experience:</p>	<p>Post-doctoral Research December 2010 – October 2011 Commission of Atomic Energy – CEA Grenoble, Laboratory of Electronics and Information Technologies – LETI, France. Subject: Millimetric integrated antennas for very high data rate applications.</p>
<p>Research Interest:</p>	<p>Antenna Design, implementation and measurement. Satellite communication. Image Processing. Engineering Education.</p>
<p>Research Grants:</p>	<p>Preparing Engineers for the Sustainable Future: Embedding the New Kuwait 2035's Vision into Engineering Curricula Australian University, Mishref, Kuwait, in collaboration with Central Queensland university, Australia.</p> <p>Dual Polarized Reflectarray Antenna for Satellite Applications Based on Multi-Scale Phase Shifting Concept. Arab Open University, Kuwait Branch, Al-Ardia, Kuwait.</p>
<p>Research and Publications including Journal and Books:</p>	<ul style="list-style-type: none"> - H. Salti, M. Farhat, M. Abdel Niby, I. Zabalawi, "Towards a flexible 2+2 hands-on engineering technology curriculum", World Transactions on Engineering and Technology Education, Vol.19, No.4, 2021. - H. Salti, R. Gillard, "A Statistical Approach for Gain Bandwidth Prediction of Phoenix-Cell Based Reflectarrays," Advances in Science, Technology and Engineering Systems Journal Vol. 2, No. 1, 2018. - S. Seok, J. Kim, H. Salti, L. Dussopt, N. Rolland, "Wide-band millimetre-wave antenna based on Si and suspended BCB membrane," Microsystem Technologies, Springer, Vol. 21, No. 5, 2015. - H. Legay, E. Girard, D. Bresciani, R. Gillard, H. Salti, T. Makdissy, E. Fourn, "Reconfigurable radiating phase-shifting cell based on complementary slot and microstrip resonances", US 20130241770 A1, Sept. 2013.

	<ul style="list-style-type: none"> - H. Legay, E. Girard, D. Bresciani, R. Gillard, H. Salti, T. Makdissy, E. Fourn, "Cellule déphaseuse rayonnante reconfigurable basée sur des résonances fentes et microrubans complémentaires," EP 2571098 A1, March 2013. - H. Salti, E. Fourn, R. Gillard, "Minimization of MEMS breakdowns effects on the radiation of a MEMS based reconfigurable reflectarray," IEEE Transactions on Antennas and Propagation, Vol. 58, No. 7, 2010. - H. Salti, E. Fourn, R. Gillard, L. Le Coq, "A reflectarray antenna based on multiscale phase shifting cell concept," IEEE Antennas and Wireless Propagation Letters, Vol. 8, pp. 363-366, 2009.
<p>Paper Presentations at Professional Conferences:</p>	<ul style="list-style-type: none"> - S. Asaad, H. Salti, M. Farhat, "Engineering Students' Engagement in a Hybrid Learning Mode: Comparative Study", Proceedings of the 18th International CDIO Conference, Reykjavik, Iceland, 13-15 June 2022. - M. Farhat, M. Nahas, H. Salti, "Implementation and Evaluation of a New PBL Assessment Mechanism", Proceedings of the 17th International CDIO Conference, hosted online by Chulalongkorn University & Rajamangala University of Technology Thanyaburi, Bangkok, Thailand, June 21-23, 2021. - M. Zaki, H. El-Kanj, H. Salti, M. Abdul-Niby, "Tablet-Aided Lecturing Effectiveness: Case of the Australian University", Proceedings of the 16th International CDIO Conference, hosted on-line by Chalmers University of Technology, Gothenburg, Sweden, 8-10 June 2020. - M. Alameen, M. Abdul-Niby, M. Omar, F. Alkhatib, Hassan Salti, A. Salhia, I. Zabalawi, "Experiential Learning and Its Impact on Graduate Attributes and Employability", Proceedings of the World Engineers Convention, Melbourne, Australia, December 2019. - H. Salti, F. Alkhatib, S. Soleimani, M. Abdul-Niby, I. Zabalawi, "Engineering Education: Institutionalization, Internalization, and Graduate Attributes," Proceedings of the 15th International CDIO Conference, Aarhus University, Aarhus, Denmark, June 25 – 27, 2019. - H. Salti, R. Gillard, "A Single Layer Stub-Patch Phoenix Cell for Large Band Reflectarrays," Proceedings of the IEEE European Conference on Antennas and Propagation, EuCAP 2017, Paris, France, 19-24 March, 2017. - H. Salti, T. Selmi, "The AU PBL Model Applied to the Acquisition of Basic C++ Programming Skills", Proceedings of the Project Based Learning (PBL) Symposium, Kuwait, March 13th, 2016. - T. Selmi, H. Salti, H. Baitie, Majdi Al-Omari, "A Robust Approach to Remediate Failures of Hall Effect Sensors in BLDC Motor", Proceedings of the International Conference on Sustainable Mobility Applications Renewables And Technology, Kuwait, November 23rd – 25th, 2015. - H. Salti, R. Gillard, "A Slot-Patch Cell with Low Phase Distortion for Large Band Reflectarrays", Proceedings of the 5th International Conference on Digital Information and Communication Technology and its Applications (DICTAP2015), Lebanon, April 29th – May 1st, 2015. - H. Salti, T. Selmi, R. Gillard, "Toward a Statistical Understanding of Reflectarrays' Bandwidth", Proceedings of the 5th International

	<p>Conference on Digital Information and Communication Technology and its Applications (DICTAP2015), Lebanon, April 29th – May 1st, 2015.</p> <ul style="list-style-type: none"> - H. Salti, O. Hamid and M. Al-Akaidi, “An Automated Academic Advising System for E-Learning Institutions”, Proceedings of the 1st International Conference on Open Learning: Role, Challenges and Aspirations, Kuwait, Kuwait, November 25-27, 2013. - H. Salti, E. Fourn, R. Gillard, H. Legay, “Phase Quantization Effects on the Radiation of MEMS Based Reconfigurable Reflectarrays”, Proceedings of the 13th annual International Middle Eastern Simulation and Modeling Conference - MESM, Muscat, Oman, December 10-12, 2012. - L. Dussopt, H. Salti et Al., “Millimeter-Wave Ultra-Wide-Band Antenna Array Integrated on Silicon with BCB Membranes,” Proceedings of the IEEE International Symposium on Antennas and Propagation, Chicago, IL, USA, July 8-13, 2012. - L. Dussopt, H. Salti et Al., “Silicon Interposer with Integrated Antenna Array for Millimeter-Wave Short-Range Communications,” Proceedings of the IEEE International Microwave Symposium 2012, Montreal, Canada, June 17-22, 2012. - H. Salti, E. Fourn, R. Gillard, E. Girard, H. Legay, “Pharmacist Cross phase-shifting cell loaded with MEMS switches for reconfigurable reflectarrays,” Proceedings of the IEEE European Conference on Antennas and Propagation EuCAP 2010, Barcelona, Spain, 12-16 April 2010. - H. Salti, E. Fourn, R. Gillard, H. Legay, “Effets des pannes de MEMS sur le rayonnement d'un réseau réflecteur reconfigurable,” Proceedings of the Journée National Micro-onde JNM 2009, Grenoble, France, 27-29 Mai 2009. - H. Salti, E. Fourn, R. Gillard, H. Legay, “MEMS breakdown effects on the radiation of a MEMS based reconfigurable reflectarray,” Proceedings of the IEEE European Conference on Antennas and Propagation EuCAP 2009, Berlin, Germany, pp. 3738-3741, 23-27 March 2009. - H. Salti, E. Fourn, R. Gillard, H. Legay, “Robustness optimization of MEMS-based reflectarray phase-shifting cells,” Proceedings of the IEEE European Conference on Antennas and Propagation EuCAP 2009, Berlin, Germany, pp. 3724 - 3728, 23-27 March 2009.
<p>University Service including committee Membership:</p>	<p>At the Australian University - Kuwait</p> <ul style="list-style-type: none"> - Member of the AU Distance Learning Committee (since August 2020) - Head of Electrical Engineering Department (since August 2017). - Chair of all Electrical Engineering Department Committees (since August 2017). - Member of the College of Engineering Council (since October 2016) - Responsible for all Teaching and Learning aspects at the College of Engineering (since August 2017). - Responsible for all Learning Differences aspects at the College of Engineering (2 years). - Member of the College of Engineering Project Based Learning Committee (2 years).

	<ul style="list-style-type: none"> - Member of the Accreditation Committee (since August 2017). <p>At the Arab Open University – Kuwait Branch</p> <ul style="list-style-type: none"> - Academic staff representative – Member of the AOU Kuwait Branch Council (1 year). - Member of the AOU Kuwait Branch Course Schedule and Examination Committee (1 year). - Member of the Equivalencies and Schedule Committees of the ITC Program (1 year). - Member of the Academic Advising Committee of the ITC Program (1 year). - Member of the Scheduling Committee of the ITC Program (2 years). - Member of the Accreditation Committee of the ITC Program (1 year). - At the INSA of Rennes, France - Vice-Students’ representative in the University’s Scientific Committee (1 year).
National Service:	Member of the Steering and Scientific Committees of Kuwait Collegiate Programming Contest.
University Committees:	<ul style="list-style-type: none"> - Member of the College of Engineering Council (since October 2016) - Responsible for all Teaching and Learning aspects at the College of Engineering (since August 2017). - Responsible for all Learning Differences aspects at the College of Engineering (2 years). - Member of the College of Engineering Project Based Learning Committee (2 years). - Member of the Accreditation Committee (since August 2017).