



1. Name and Academic Rank: Rola Kassem, Assistant Professor, full time

2. Education: Degrees, Discipline, Institution and Date:

- Ph.D., Control and Applied Computing, IRCCyN/Nantes University/École Centrale de Nantes, 2010
- M.S., Automatic and Production Systems, École Centrale de Nantes, 2006
- B.S., Electronic and Electrical engineering - Option: Telecommunications and computer, Lebanese University, 2006

3. Work experience

- Beirut Arab University, Assistant Professor, 2011- present, full time
- Beirut Arab University, Assistant Professor, 2010, part time
- École Polytechnique de l'Université de Nantes, Teaching Assistant, 2009 - 2010, part time
- École Centrale de Nantes, Teaching Assistant, 2008 - 2009, part time
- Institut Universitaire de Technologie (IUT) de Nantes, Teaching Assistant, 2006 - 2009, part time

4. Honors and Awards:

- Award Best poster, Ph.D. Students' Day, 2008, Université de Nantes

5. Service activities

- Member - Engineering Day Committee, 2016 - 2017
- Website administrator, 2016 - 2017
- Member - Engineering Day Committee, 2015 - 2016
- Website administrator, 2015 - 2016
- Member - Quality Assurance Center, 2015 - 2016
- Member - Engineering Day Committee, 2014 - 2015
- Member - Quality Assurance Center, 2014 - 2015
- Website administrator, 2013 - 2015
- Member - Engineering Day Committee, 2013 - 2014
- Council secretary - Electrical & Computer Engineering Department Council, 2012 - 2013
- Member - Quality Assurance Committee, 2012 - 2013
- Member - Students' Affairs Committee, 2012 - 2013
- Organization and Coach - Startup Weekend, Mount Lebanon, BAU Debbieh campus, November 16, 2012
- Member - Engineering Day Committee, 2012 - 2013
- Supervisor - BAU Computer Club, Arduino & iOS Application Development Team, 2011 - 2012
- Member - Faculty Council, 2011 - 2012
- Member - Students' Affairs Committee, 2011 - 2012
- Member - Engineering Day Committee, 2011 - 2012



- Co-founder - BAU Computer Club, December 12, 2011
- Co-organizer - Skill Rush, June 27, 2011

6. Research Interests

- C
-

7. International Scientific Activities and Research Cooperation

- Research Cooperation with Dr. Mikael Briday and Dr. Jean-Luc Bechenec – LS2N, Nantes, France
- Grant from Erasmus Mundus Project, 3rd cohort of Peace, one month stay at University of Nantes, LS2N, France, 07 June- 07 July 2016

8. National Research Cooperation

1. Beirut Arab University, Faculty of Sciences: Dr. Ali El-Zaart, Dr. Wassim El-Hajj-Chehade.

9. Principal publications and presentations:

9.1 Journal Publications

1. Bilal Owaidat, **Rola Kassem**, and Hamza Issa. *A New Handoff Strategy for better Cellular Network Performance*. International Journal of Enhanced Research in Science, Technology & Engineering, Volume 5, Issue 2. February 2016.
2. Bilal Owaidat, **Rola Kassem**, and Hamza Issa. *An Efficient Handoff Scheme Using a Minimum Residual Time First Scheme*. International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 4 Issue 9, September 2015.
3. **Rola Kassem**, Mikaël Briday, Jean-Luc Béchenec, Guillaume Savaton and Yvon Trinquet. *Harmless, a Hardware Architecture Description Language dedicated to Real-Time Embedded System Simulation*. Journal of Systems Architecture – Elsevier, accepted 8 May 2012, available online 16 May 2012.
4. Guillaume Savaton, Jean-Luc Béchenec, Mikaël Briday, and **Rola Kassem**. *An Architecture Description Language for Embedded Hardware Platforms*. Electronic Communications of the EASST, volume 44: OCL and Textual Modelling 2011.

9.2 Papers Book Section

None

9.3 Conference Proceedings

1. Wassim El-Hajj-Chehade, Riham Abdel Kader, **Rola Kassem**, Ali El-Zaart. *Image Segmentation For Fingerprint Recognition*. International Conference on Computer and Applications (ICCA18), Beirut, Lebanon. IEEE. July 2018 (Accepted)
2. Bilal Owaidat, Hamed Nassar, and **Rola Kassem**. *A shortest job first (SJF)-like scheme for efficient call handoff in mobile networks*. Fifth International Conference on Digital Information and Communication Technology and its Applications, DICTAP 2015, Beirut, Lebanon, April 29 - May 1, 2015.
3. Ahmad Kobeissi, **Rola Kassem**, and Ali Massoud Haidar. *A Novel Neural Networks Implementation Algorithm of Logical Circuits*. 21st LAAS International Science



- Conference « Horizon 2020: Advances in Sciences and technology », Saint Joseph University (USJ), Beirut, Lebanon April 15-17, 2015.
4. Nabil Mirza, **Rola Kassem**. *Video Attention Detection for eLearning*. In IADIS International Conference on Internet Technologies and Society 2012, Perth, Australia November 28-30, 2012.
 5. **Rola Kassem**, Mikaël Briday, Jean-Luc Béchenec, Yvon Trinquet and Guillaume Savaton. *Cycle Accurate Simulator Generation Using HARMLESS*. In international Middle Eastern Multiconference on Simulation and Modelling (MESM'09), Beirut, Lebanon, September 2009. EUROSIS and IEEE UKRI - SPC.
 6. **Rola Kassem**, Mikaël Briday, Jean-Luc Béchenec, Yvon Trinquet and Guillaume Savaton. *Instruction set simulator generation using HARMLESS, a new hardware architecture description language*. In Simutools '09 : Proceedings of the 2nd International Conference on Simulation Tools and Techniques, Rome, Italy, 2009. ICST and ACM (SIGSIM and SIGMETRICS).
 7. **Rola Kassem**, Mikaël Briday, Jean-Luc Béchenec, Yvon Trinquet and Guillaume Savaton. *Simulator Generation Using an Automaton Based Pipeline Model for Timing Analysis*. In International Multiconference on Computer Science and Information Technology (IMCSIT), International Workshop on Real Time Software (RTS'08), Wisla, Poland, 2008. IEEE.