

Mr. Layth SLIMAN
Nationality: French
Age: 40 Years

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At present: **Associated professor**, French Engineering School of Information Science and Technology, Paris, France.



Degrees	PhD. In Computer Science- National Institute of Applied Sciences – INSA Lyon, France. Master in Computer Science - INSA Lyon – France. Engineering Degree in Computer Sciences - Aleppo university- Syria.
<u>Professional Experience (From 2000 to 2014)</u> <ul style="list-style-type: none">- 2010 to 2014: associated professor, French Engineering School of Information Science and Technology.- 2006 to 2009: Researcher- INSA Lyon & National Research Agency - France.- Assistant professor, tele-informatics, INSA Lyon-France.- 2000-2004: Research engineer and Lecturer at Alba’ath university- Syria.	
<u>Research Activities</u> Keywords: Distributed Systems, SOA, Collaborative Systems, Information Security, Enterprise Information Systems, Cloud Computing, Big Data, Interoperability, Middleware, Bioinformatics. <u>Research Projects and Products</u> Exec&Share(2011 up to date): http://www.runshare.org/CompanionSite/firstVisit.do Exec&Share is an open access Cloud-Based platform allowing people to run computer codes associated with the scientific publications (articles and working papers) using demo data provided by the authors or their own data and parameter values. Using the platform requires only a web browser. All the calculations are done on a dedicated cloud computers. Once the results are ready, they are automatically displayed to the user. It is also possible to only make the code downloadable, but not executable. In this case, users can download the code and run it on their own computers. The Exec&Share platform is operated by a not-profit scientific organization called “OLAB-Dynamics” Association. The mission of the platform is to make research easier to use and easier to replicate. Exec&Share is currently funded by several national research agencies and universities. My role: I am responsible of the elaboration and the implementation of Collaboration and Security specifications in the platform and a member of the steering committee. Sphere-light project (a recently signed contract with APHP): The project has two folds: the first aims at developing a software for predicting medicine toxicity on the human body. The toxicity is identified using a 3D pharmacophore representation of medicine molecule. The representation is then used to identify and match pharmacophoric points with stored patterns representing human cells receptors. This	

greatly enhance the reliability of toxicity predicting and saves time and money by considerably reducing the number of in-vivo tests and trails on real cells. The mission is to provide a computer implementation and 3D modeling of molecules in order to "super-pose" pharmacophores with the stored patterns.

The second fold is about the modeling& simulation of molecular Force Fields. Force fields are mathematical functions representing the physical, energetic and dynamic behavior of a molecule. The aim of the work is to transform the mathematical functions of some of force fields, for instance hydrogen bond, halogen bond, metal/ligand binding and proton transfer, into a series of computer codes dedicated to modeling and simulation of force fields, and integrate them into academic molecular modeling software, especially the GROMACS software.

My role: I am the scientific coordinator of the project.

SemEUsE((2007 to 2010) see also Petals ESB):

<https://research.linagora.com/display/semouse/SemEUsE+Overview>

SemEUsE project aims at providing a context-aware and distributed semantic service architecture addressing both the design phase, thanks to theoretical context-aware semantic service models and policy-oriented design patterns, and the runtime phase, thanks to a Dynamic Semantic Service Bus. This extended service bus is based on a static and dynamic service composition engine so that the current execution context and particular requirements (related for example to nomadic constraints) can be continuously taken into account. A dynamic monitoring system, using CompositeProbes, will also be connected to the orchestration process so that QoS aware late binding can be implemented.

My role:It was to develop the security and trust management system in such a way to take into consideration all involved parties security and privacy policies.

Interprod (2006-2009) :

<http://cluster-gospi.fr/spip.php?page=cadre&skell=fiche&ztable=projet&zid=9>

To fulfil collaboration requirements, the project aims at reorganizing the corporate information system according to a new urbanization paradigm;since traditional urbanization strategies lead to a partitioned and rather rigid information system organization.Using Service Oriented Architecture deployment, the objective is to provide more interoperable information systems. This is done in order to facilitate initiating "on demand" collaborative processes.

My role: Defining a new approach of IS re-organization so that it become aligned with the company's strategy while preserving the ability of on-demand collaboration.

Publications and Communications

1 - International Journals :

- 1- Layth SLIMAN, Benoît CHARROUX, Yvan STROPPIA, (2013): ***RunMyCode:a Revolutionary Scientific Research-Oriented Collaboration and Benchmarking Platform***,accepted and to appear, Advances in Multimedia Technology, 2013.
- 2- Layth SLIMAN, Frédérique BIENNIER, Youakim BADR, (2009),***A Security Policy Framework for Context Aware and User Preferences in e-Services***, International Journal on System Architectures - Volume 55, Issue 4, p.275-288, Elsevier, 2009.
- 3- Layth SLIMAN, Frédérique BIENNIER, Youakim BADR, Anne LEGAIT, (2009),***Collaborative Business and Enterprise Urbanisation "Towards a Production-Oriented Urbanization Strategy"***, International Journal of

Enterprise Information Systems, Vol. 5, No.1 P. 9-31, IGI Global, USA 2009.

- 4- Ahlem ZAYATI, Layth SLIMAN, Youakim BADR, Frédérique BIENNIER, Mohamed MOALLA, (2009), ***Service Bus Framework for Industrial Information System***, International Journal on Artificial Intelligence and machine learning, ICGST(Issue 3, P.P. 53-59, 2009).

2. Keynote Speeches:

- 5- Layth Sliman, ***A Novel Era of Research Sharing and Reproducibility***. IEEE- CCIS2013 Conference, Vellore, India.
- 6- Layth Sliman, ***Run and Share your Research findings: Is it a Novel Era of Research Sharing and Reproducibility?*** ISDA-2013, Kuala-Lumpur, Malaysia.

3- International Conferences :

- 7- Safa TAIEB, Layth SLIMAN, Benoit Charroux, Yvan STROPPIA. ***Towards a Total Traceability of Research Collaboration: a New Distributed Research Oriented Version Control System***, the International Arab Conference on Information Technology, ACIT'2013.
- 8- Layth SLIMAN, Benoît CHARROUX, Yvan STROPPIA (2013), ***a New Collaborative and Cloud Based Simulation as a Service Platform: Towards a Multidisciplinary Research Simulation Support***, IEEE UKSIM, Cambridge, UK, 2013.
- 9- Layth SLIMAN, Benoît CHARROUX, Yvan STROPPIA (2012), ***RunMyCode: an Innovative Platform for Social Production and Evaluation of Scientific Research***, In proceeding of CASON 2012 IEEE.
- 10- Alida ESPER, Layth SLIMAN, Ahlem ZAYATI, Youakim BADR, Frédérique BIENNIER, (2008), ***Towards Secured and Interoperable Business Services***, , In proceeding of I-ESA'08 International Conference in Interoperability for Enterprise Software and Applications, Germany, PP 301-312.
- 11- Layth SLIMAN, Youakim BADR, Frédérique BIENNIER, Zensho NAKAO, (2009), ***Towards a Resource-Driven Modelling Paradigm in Collaborative and Service-Oriented Enterprises***, (2009), In proceeding of 13th IFAC Symposium on Information Control problems in Manufacturing INCOM'09, Moscow, Russia, p.1614-1619, Elsevier.
- 12- Layth SLIMAN, Youakim BADR, Nicolas SALATGE, Frédérique BIENNIER, Zensho NAKAO, ***Single Sign On Integration in a Distributed ESB***, (2009), In proceeding of N2S'2009 IEEE, First International Conference on Network and Service Security, Paris, France.
- 13- Layth Sliman, Frederique Biennier, Zensho Nakao, ***Secure & Context Aware Service Oriented Architecture***, In proceeding of Joint Conference IEEJ and IEICE, Okinawa, Japan.
- 14- Ahlem ZAYATI, Layth SLIMAN, Youakim BADR, Frédérique BIENNIER, Mohamed MOALLA, (2009), ***Lean ESB: Data Mining Involvement in the definition of a Service Bus- Lean Manufacturing Context***, In proceedings of SETIT 09, 5th International Conference on Technology of Information and Telecommunications, Hammamat, Tunisie, 2009.
- 15- Layth SLIMAN, Ahlem ZAYATI, Youakim BADR, Frédérique BIENNIER, Mohamed MOALLA, (2009), ***Interoperability and Definition of Industrial Services***, In proceeding of CIGI'09, 8ème International

conference in Industrial Engineering, 2009.

- 16- Layth SLIMAN, Frédérique BIENNIER, Sylvie SERVIGNE, (2006), *Joint Enterprise and Information System Urbanization*, in proceedings of IPI 2006, pp. 169-180.

International Stays, Training and Missions

2014 Invited lecturer Beijing University of Technology, China
2013 and 2014 Invited lecturer, Beijing University of Technology, China
2011, 2012, and 2013: Invited Researcher, Ritsumeikan University Japan.
2009: Invited Researcher, University of the Ryukyus- Japan.
2008: Invited Researcher, University of the Ryukyus -Japan.
2003: Training internship in ITC- MEIO University- Japan.
2003: Training courses in ICT, Okinawa International Center, Japan.
2003: Training on development & Implementation of Computer Software Applications (CMC-TATA) - New Delhi-India.

International scientific organization, journals and conferences membership

1. Member of the editorial board of AMT, International journal: Advances in Multimedia Technology.
2. Member of the scientific board of International Institute of Engineers.
3. Member of steering board of Exec&Share (Platform of Executable Papers: www.execandshare.org).
4. Chair of CloudDays (joint event with DNAC 2012, dedicated to Cloud Computing).
5. Member of local organization board of ICDIM'07 (ACM), Lyon, France.
6. Member of the technical program committee of ICUMT 2009, ICCSII 2012, ICEDSA 2012, ISIEA 2012, ICoICT 2013, IJCDs' V3, ICEPIT 2014 and DPNOC 2014.
7. Member of IEEE.

Teaching Activities Details

Course Name	Years	Level
Computer Basics	2000-2001	First year engineering
Hardware A+ Certification	2001-2002	First year engineering
Digital Systems, Assembly 80x86	2000 to 2003	Fourth year engineering
Data Structures	2012	Third year engineering
Computer Programming	2000 to 2002	First year engineering
Computer Architecture	2001-2002	Fourth year engineering
Operating Systems Anatomy	2001 to 2003	Fourth year engineering
Computer Networks	2002-2003	Fourth year engineering
Compilers	2002-2003	Fourth year engineering
Tele-informatics	2007 to 2010	Master
Local Networks TCP/IP	2008-2009	Master
Advanced Networks	2008-2009	Fourth year engineering
Production Management System	2008-2009	Fourth year engineering

Information System Architecture	2009 to 2014	Fifth year engineering
Enterprise Resources Planning	2010 to 2013	Master
Information System Modeling	2011 to 2014	Master
Human Computer Interaction	2011 to 2013	Master
Software Project Management	2011 to 2014	Master
Knowledge Management	2011-2014	Master

Skills and Competencies

Computer Networking

- Cisco Switching /Routing
- Lucent Switching /Routing
- A+, Network +.

Data Bases (RDBMS and Graph Based)

- Oracle, SQL Server, MongoDB

Programming and Modeling Languages

- C++, JAVA, Visual Basic.
- UML.
- Assembly 80x86, Z80.
- Turbo Pascal 7.0.

Web and Semantic SOA

- XML, HTML, DHTML, PHP, MySQL
- UDDI, WSDL, SOAP, WS-Security, WS-Policy.

Languages

English: Very good W, R, S **French:** Very good W, R, S **Arabic:** mother tongue - **Japanese:** Basics.