

# Curriculum Vitae

**Adel Smeda**

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## Education

Post Doctoral, Septembre 2006 – June 2007, Université de Nantes, Nantes, France.

Ph. D. in Software Engineering, September 2002 – June 2006, Université de Nantes, Nantes, France.

Master of Science in Computer Engineering January 1997 – May 1999, Dalhousie University, Halifax, Canada.

Bachelor of Science in Computer Engineering, January 1985 – July 1990, Bright Star University of Technology, Brega, Libya.

## Languages

Arabic, English, French.

## Research Areas

Software Engineering, Software Architecture and Modeling, Business Process Modeling, Enterprise Modeling, E-Technology, ICT for sustainable development.

## Experience

**Computer Engineer:** 1990 - 1994, GCC, Libya. My duties included customer support, networks installation, and research engineer in R&D department.

**Teacher Assistant:** 1994 - 1996, Department of Data Analysis, Faculty of Accounting, University of Al-Jabel Al-Gharbi. My duties included giving labs and tutorials to undergraduate students.

**Teacher Assistant:** 1997- 1999, Dalhousie University, Canada. My duties included giving tutorials and labs to undergraduate students.

**Lecturer:** 1999-2001, Department of Data Analysis, Faculty of Accounting, University of Al-Jabel Al-Gharbi, Libya. Teaching undergraduate course and supervising projects for undergraduate students.

**Lecturer:** 2007- 2014, Department of Data Analysis, Faculty of Accounting, University of Al-Jabel Al-Gharbi, Libya. Teaching undergraduate course and supervising projects for undergraduate students.

**Head of Department of Data Analysis:** 2008 –2012, Faculty of Accounting, University of Al-Jabel Al-Gharbi, Libya.

**Dean of Faculty of Accounting:** 2012 –2013, Faculty of Accounting, University of Al-Jabel Al-Gharbi, Libya.

**Academic attaché:** 2013 –2018, Embassy of Libya in Paris, France. My duties included supervising and guiding Libyan students in their academic life, coordinating cultural and academic cooperation between Libyan and French institutions, managing financially and administratively the Libyan school in Paris (l'école Ibn Khaldoun) and its two branches (Tours and Besançon).

**Adjunct Professor:** 2018 – until this date, Libyan Academy, Libya. Giving graduate courses, and supervising thesis.

**Professor:** 2018 – until this date, University of Gharyan, Libya. Giving course and supervising projects for undergraduate and graduate students.

**Dean of Faculty of Accounting:** 01/10/2020 – until this date, Faculty of Accounting, University of Gharyan, Libya.

**Head of department of computer science:** 01/07/2021 until this date, school of basic sciences, Libyan Academy, Jamzor, Libya.

### **Training Courses**

UNIX OS: June 1- 29 1993, GCC Training center, Tripoli, Libya.

Quality Control in Computer Manufacturing: August 19 - 31, 1992, First International Computer Inc, Taipei, Taiwan.

INTERNETWORKING Bridges, Routers & Gateways: October 27-30, 1998, DalTech Continuing Technical Education, Halifax, Canada.

### **Publications**

#### **1- Posters:**

1. Software Connectors in the COSA Approach, Components, and Patterns for Infrastructure Software (ACP4IS), held in conjunction with the Third International Conference on Aspect-Oriented Software Development (AOSD 2004), 22 March, 2004, Lancaster UK.

#### **2- Workshops:**

1. Improving Component-Based Software Architecture by Separating Computations from Interactions, “Issues on Coordination and Adaptation Techniques, Carlos Canal, Juan M. Murillo, and Pascal Poizat (Eds.), Proceedings of the First International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT’04) held in conjunction with ECOOP 2004, June 14, 2004. Oslo, Norway.
2. Expliciter les connecteurs dans les architectures logicielles, Journée Composants, held in conjunction with LMO’04, 17-18 Mars 2004, Lille, France.
3. Un profil UML 2.0 pour l'architecture logicielle COSA, 5ème atelier sur les Objets, Composants et Modèles dans l'ingénierie des Systèmes d'Information, held in conjunction with INFORSID 2006, May 24, 2005, Hammamet, Tunisie.
4. Mapping COSA Software Architecture Concepts into UML 2.0, Proceedings of the 5th IEEE/ACIS International Conference on Computer and Information Science and 1st IEEE/ACIS International Workshop on Component-Based Software Engineering, Software Architecture and Reuse (ICIS-COMSAR’06), Honolulu, Hawaii, July 10-12, 2006.

#### **3- Conferences:**

1. Application of Hopfield Neural Networks in Routing for Computer Networks, 1999 IEEE Canadian Conference on Electrical and Computer Engineering, May 2 – 12 1999, Edmonton, Canada.
2. Software Connectors Reuse in Component-Based Systems, IEEE International conference on Information Reuse and Integration (IRI 2003), 27-29 October 2003, Las Vegas, USA.

3. Operational Mechanisms For Component-Object Based Software Architecture, IEEE International Conference on Information & Communication Technologies: From Theory to Applications (ICTTA2004), 19-23 April 2004, Damascus, Syria.
4. ALBACO : Une Architecture logicielle à base de composants et d'objets pour la description de systèmes complexes , 8th Maghrebian Conference on Software Engineering and Artificial Intelligence (MCSEAI 2004), 9-12 May 2004, Sousse, Tunisia.
5. An Explicit Definition of Connectors for Component-Based Software Architecture, IEEE International Conference on the Engineering of Computer Based Systems (ECBS 2004), 24-27 May 2004, Brno, Czech Republic.
6. Active Connectors for Component-Object based Software Architecture, 2004 International Conference of Software Engineering & Knowledge Engineering (SEK'04), 20-24 June 2004, Banff Conference Center, Canada.
7. MADL: Meta Architecture Description language, In Proceedings of the 3rd ACIS International Conference on Software Engineering Research, Management & Applications (SERA 2005), Pleasant, Michigan, USA, August 11 - 13, 2005, IEEE CS, ISBN 0-7695-2297-1, pp. 152-159.
8. Mapping ADLs into UML 2.0 Using a Meta ADL, In Proceedings of 5<sup>th</sup> working IEEE/IFIP Conference on Software Architecture (WICSA'05), Pittsburg, Pennsylvania, November 6-10, 2005, pp. 247-248.
9. Building a UML Profile for COSA Software Architecture, In Proceedings of the 2<sup>nd</sup> IEEE International Conference on Information & Communication Technologies : From Theory to Applications (ICTTA'06), Damascus, Syria, April 24-28, 2006.
10. Integrating Aspects in the COSA Model, Abdel Kakarim Amiray, Adel Smeda, and Olivier Le Goaer, In Proceedings of the 8th International Symposium on Programming and Systems (ISPS'2007), Algiers, Algeria, May 7-6, 2007.
11. COSA : An Architectural Description Meta-Model, Sylvain Maillard, In Proceedings of the 2<sup>nd</sup> International Conference on Software and Data Technology (ICSOFT 2007), 22-25 July 2007, Barcelona, Spain.
12. Integrating Software Architecture Concepts into the MDA platform, In Proceedings of the 2<sup>nd</sup> International Conference on Software and Data Technology (ICSOFT 2007), 22-25 July 2007, Barcelona, Spain.
13. COSABuilder: an Extensible Tool for Architectural Description, In Proceedings of the 3<sup>d</sup> IEEE International Conference on Information & Communication Technologies: from Theory to Applications (ICTTA'08), April 7-1 2008, Damascus, Syria.
14. A Scalable Mathematical QoS Model for IP Networks, In Proceedings of the 3<sup>d</sup> IEEE International Conference on Information & Communication Technologies: from Theory to Applications (ICTTA'08), April 7-1 2008, Damascus, Syria.
15. An Automatic Transformation from COSA Software Architecture to CORBA Platform, In Proceedings of the 8<sup>th</sup> International Conference on New Technologies in Distributed Systems (NOTERE 2008), 23-27 June 2008, Lyon, France.
16. Integration of Architectural Design and Implementation Decisions into the MDA Framework, In Proceedings of the 3<sup>d</sup> International Conference on Software and Data Technology (ICSOFT 2008), 5-8 July 2008, Porto, Portugal.

17. Mapping Architectural Concepts into UML2.0, The 3<sup>rd</sup> National Conference on Basic Sciences, April 25-27 2009, Gharian, Libya.
18. A Comparative Study of Architecture Description language (ADLs), The 3<sup>rd</sup> National Conference on Basic Sciences, April 25-27 2009, Gharian, Libya.
19. A Software Architecture Modeling Tool, In Proceedings of the 8th WSEAS International Conference on Telecommunications and Informatics (TELE-INFO '09), May 30 - June 1, 2009, Istanbul, Turkey.
20. A formal definition of Software Architecture Behavioral Concepts, In Proceedings of the Fourth International Conference on Research Challenges in Information Science (RCIS'2010), May 19-21, 2010, Nice, France.
21. Integrating Architectural Description into OMG Infrastructure, In the proceedings of International Arab Conference in Information Technology (ACIT), December 14-16, 2010, Bangazy, libya.
22. Adding Aspects to Software Architecture, in the proceedings of 11th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2012), May 30-June 1, 2012, Shanghai, China.
23. Enhancing Integrity and Availability of E-Documenting Systems, in the proceedings of the 2013 International Conference on e-Commerce, e-Administration, e-Society, e-Education, and e-Technology (e-CASE & e-Tech 2013), April 3-5, 2013, Kitakyushu, Japan.
24. Study the Influence of Various Factors in Neural Networks, in the proceeding of the International Conference on Electrical, Computer, Electronics and Communication Engineering (ICECECE 2013), June 5-6, 2013, New York, USA.
25. vADL.net: a Software Architecture Tool with Support to All of Architectural Concepts, in the proceedings of International Conference on Evaluation and Assessment in Software Engineering (ICEASE 2015), February 23-24, 2015, Paris, France.
26. A Methodology for Evaluating Fault Tolerance in Web Service Applications, in the Proceedings of the 15<sup>th</sup> International Conference in Applied Computer Science (ACS'15) May 20-22, 2015, Konya, Turkey.
27. Applying Proposed Method to Prevent SQL Injection Attacks, in the proceedings of the 6th European Conference of Computer Science (ECCS '15), November 7-9, 2015, Rome, Italy
28. An Enhanced RED Technique to Insure High QoS in IP Networks, in the proceedings of the 8th International Conference on Computer Technologies and Development, (ICCTD 2017), March 20-22, 2017, Paris, France
29. Comparison of VoIP Performance over WIMAX, WLAN and WIMAX – WLAN Integrated Networks, in the proceedings of the Libyan International Conference on Electrical Engineering and Technologies (LICEET 2018), March 4-6, 2018, Tripoli, Libye

#### **4-Journals:**

1. A Multi-Paradigm Approach to Describe Complex Software System, WSEAS Transactions on Computers, Issue 4, Volume, 3, October 2004, pp. 936-941.
2. Meta Architecting: Toward a New Generation of Architecture Description Languages, Journal of Computer Science, Issue 4, Volume 1, 2005, pp. 454-460.

3. Representing and Formally Modeling COSA Software Architecture with UML 2.0 Profile, the International Review on Computers and Software (IRECOS), Volume 2, n° 1, January 2007, pp. 30-37.
4. Integrating Software Architecture Concepts into the MDA Platform with UML Profile, Journal of Computer Science, Issue 10, Volume 3, 2007, pp. 793-802.
5. MY Architecture: A Knowledge Representation Meta-Modem for Software Architecture, International Journal of Software Engineering and Knowledge Engineering (IJSEKE), Volume 18, Number 7, November 2008, pp. 877-894.
6. Software Architecture: Concepts, Definitions, and languages, The Journal of University of El-Ghabal El-Gharbi, Issue 6, 2009, pp. 5-27.
7. An environment for describing software systems, Journal WSEAS Transactions on Computers, Volume 8, Issue 9, September 2009, pages 1610-1619.
8. COSABuilder AND COSAInstantiator: AN EXTENSIBLE TOOL FOR ARCHITECTURAL DESCRIPTION, International Journal of Software Engineering and Knowledge Engineering (IJSEKE), Volume 20, Number 3, May 2010, pp.423-455.
9. Searching and Analyzing Arabic Text Using Regular Expressions e-Quran Case Study, International journal on Advanced Computing and Information Technology (IJCACIT'14) Jan. 1-2, 2014, Bangkok, Thailand.
10. A NOVEL METHOD TO TEST DEPENDABLE COMPOSED SERVICE COMPONENTS, International Journal of Computer Networks & Communications (IJCNC) Vol.8, No.3, May 2016.
11. MRED: An Algorithm to Insure High QoS in IP Networks, Journal of Communications, Vol. 12, No. 4, 2017.

#### **5- Book chapters:**

1. Coexisting Software Architecture and Object Oriented Modeling, Handbook of Software Engineering and Knowledge Engineering, Vol. 3: Recent Advances, edited by S.K. Chang, world scientific, Singapore, 2005, ISBN 981-256-273-7.
2. Les Modèles de Composants Académiques, Ingénierie des Composants : Concepts, Techniques et Outils”, edited by M . Oussalah, Vuibert Informatique, Paris, 2005, ISBN 2-7117-4836-7
3. Les composants : définitions et concepts de base, Ingénierie des Composants : Concepts, Techniques et Outils”, edited by M. Oussalah, Vuibert Informatique, Paris, 2005, ISBN 2-7117-4836-7
4. La métamodélisation d’architectures logicielles, Architectures logicielles : Principes, techniques et outils, sous la direction de Mourad Oussalah, Editions Hermes Sciences-Lavoisier ISBN 978-2-7462-4517-4, ISSN 2111-0360, 2013, Paris
5. Metamodeling in Software Architecture, Software Architecture 2, edited by Mourad Oussalah, John Wiley & Sons, Hoboken, NJ, 2014, ISBN 978-84821-688-4.

#### **Member of scientific and cultural organizations**

University Engineering Consulting Office (UECO)

Arab Computer Society (ACS)

International Association of Computer Science and Information Technology (IACSIT)

International Association of Engineers (IAENG)  
Les Amis de l'Institut de Monde Arabe à Paris (IMA)