

Khalil DRIRA

OLC Group (Tools and Software for Communicating systems)
Laboratory for Analysis and Architecture of Systems (LAAS)
National Center for Scientific Research (CNRS)
LAAS-CNRS 7, Avenue du Colonel Roche 31077 Toulouse Cedex FRANCE
Tel: (33) 5.61.33.63.22 Fax : (33) 5.61.33.64.11
e-mail: khalil@laas.fr
URL: <http://www.laas.fr/~khalil>

Personal information

French and Tunisian citizenship. Born July 1962. Married, three children.

Research interests

Automated Software Engineering for distributed component-oriented software applied to collaborative group activities. High-level Formal Description and implementation techniques for Coordination of networked component-oriented software.

Work Experience

Since Oct 1993:

CNRS tenure research scientist

1992-1993:

CNRS research associate

Summer 1991:

Design Engineer at VERILOG (French Software Company) Toulouse

1988-1990:

Industrial Consultant in modeling, verification and analysis of communicating systems.

Education

Université Paul Sabatier (UPS) Toulouse 3: **PhD October 1992, MS September 1988**

Subject: Computer Science

Thesis: Specification-driven approach for testability assessment of communicating systems

Supervisor: Pierre Azéma

Examining board: R.Castanet, G.Leduc, P.Salle, P.Azema, B.Algayres, M.Diaz, B.Soulas.

Awards: National Center for Scientific Research (CNRS) Graduate Fellow

Electricité De France (EDF) Graduate Fellow

Distinction: First class honors (Très Honorable avec les Félicitations du Jury)

ENSEEIH / INP Toulouse, **Engineering Degree in Computer Science, June 1988**

"Ecole Nationale Supérieure d'Electronique d'Electrotechnique d'Informatique et d'Hydraulique de Toulouse / Institut National Polytechnique de Toulouse"

Awards: French Ministry of Education Engineering Fellow ("Bourse de coopération")

Main Teaching Skills

Object-oriented software design and programming: UML, C++, JAVA

Component-oriented software Design and Development: EJB (Java Enterprise Java Beans), CCM (Corba Component Model)

Middleware: CORBA, JAVA-RMI, JSDT, Event Service, and Naming Service

Client/Server programming

Software Architecture Design and modeling

Networked Internet-based software

Coordination Technology for Collaborative Group activities

Formal Description Techniques for Communicating Systems:

- Formalisms : Process Algebra (Calculus for Communicating System , ISO Language LOTOS), Petri Nets
- Operational Semantics: Labeled Transitions Systems, Verification techniques (Bisimulation, Observational Equivalence, test and implementation relations, conformance relation, failure semantics,etc...)

Summary of Research activities

My early research activities has started in 1988 and concerned the formal description and the analysis of communicating systems in general. They started within the framework of analysis and validation under controllability and observability constraints introduced by the test process, especially when testing through an environment in case of multi-component systems [[43](#), [44](#), [45](#), [46](#), [47](#), [48](#)]. This research subject constituted, first my PhD work. I then contributed to the exploitation [[42](#), [50](#), [49](#)] and extension [[36](#), [37](#), [38](#)] of the obtained results.

My research activities have then evolved toward application of acquired experience to the problem of validation of quantitative properties [[40](#)]. In the same time these activities concerned application of several results to the "Quality of Service" in multimedia systems [[41](#)].

My research activities are presently conducted in the framework of automated software engineering for component-oriented Internet applications. These research results are applied to the cooperative work support on top of distributed communicating systems. I am particularly investigating high-level techniques for design and implementation of coordination software in these systems [[33](#), [35](#)]. I defined a new technique based on graph transformation for dynamic software architecture management and user group actions coordination. This technique has been validated and implemented in middleware technologies: CORBA, JAVA RMI and EJB.

Research projects

DSE Jan 1999- Dec 2001

(CNRS representative) European IST Project involving the consortium EADS-LV (F), Alenia Spazio (I), SIA (I), D3Group (G), IABG (G), LIP6 (F),LAAS (F), Silogic (F). The aim of the project is to build an environment to support large scale application of Collaborative Engineering Platforms within the European Industry, supporting the whole

System Engineering Life Cycle, with special emphasis on Design and Verification activities in large, International projects, involving a complex and multi-level customer-supplier network.

CANET Sept 1996- Jan 1998

European High Performance Computing Networks Project involving the consortium SIEMENS-FRANCE/ SIEMENS-GERMANY/ RENAULT/ RENAULT-SPAIN/ FRANCE TELECOM-EXPERTEL/ LAAS-CNRS. The aim of the project is to assess the high speed communication platforms for the manufacturing and the design of engines and Intelligent Switch Units. I am the coordinator of the business scenario formalization activity of this project [[32](#), [54](#)].

LOTOSPHERE

European Project (Esprit) 90-92. This project concerned techniques and tools for the specification language LOTOS of ISO. My contributions was the experiments of the language for the specification of FieldBus protocols (FIP) [[52](#)]. I was the representative of LAAS at the plenary meeting at Vilamoura, Portugal October 1990. I also contributed to the organization of the workshop of Toulouse March 1992.

DER-EDF

Industrial research project LAAS-CNRS/DER-EDF 90-94. This project concerned the exploitation of formal descriptions techniques for validation of communicating systems and testability analysis. I also extended and adapted the tools and techniques of abstract test sequence generation to make them useful for other members of our research group for further industrial collaboration concerning the MMS protocols [[49](#)].

CESAME

French national collaboration project CNET-CNRS (92-95). Formal Design of High Speed Cooperative Multimedia Systems. I particularly contributed to the QoS definition activity [[41](#)].

GDR-PRS

French national academic collaboration in the pole "Concurrency, Networks and Systems" [[34](#)]. I was particularly involved in the technical organization in the final 2-years results publication in 1994.

Systems Work

PSTV

chief designer and one of the implementors of this tool which is used for test sequence and canonical tester generation and testability analysis.

AGCA

chief designer and implementor of this software environment which is used for rule-oriented implementation of coordination in cooperative distributed systems.

SeditV0

chief designer and one of the implementors of this text editor for distributed simultaneous co-

authoring written in JAVA/LCS upon the AGCA environment. With contribution of Mounir Sidhom BS (1995-1996).

SeditV1

chief designer and supervisor of MS students : Etienne Roblet (1999-2000, 2000-2001), Mehdi ElJed (MS 2001-2002). <http://www.laas.fr/sedit>

CDK

chief designer and supervisor of MS students for implementation: Frédéric Gouezec (MS 1998), Adil Habibi (MS 2001).

DSE

chief designer and supervisor of MS and PhD students for implementation: Martin Molina (Phd 1999-2002), Béatrice Bastier Cambou (MS 2000-2001), Olfa Jenhani (MS 2001-2002), Laura Rodrigues (Phd 1999-2002).

International Responsibilities

Member of the program committees of the following international conferences:

- PDPTA'99, the 5th International Conference on Parallel and Distributed Processing Techniques and Applications June 28 - July 1, 1999, Monte Carlo Resort & Casino, Las Vegas, Nevada, USA
- ACIDCA'2000, the International Conference on Artificial and Computational Intelligence For Decision, Control and Automation In Engineering and Industrial Applications, 22-24 March 2000 - Monastir, Tunisia
- DOCS '2000, the First Conference on Distributed Objects in Computational Science, Las Vegas, Nevada, USA; June 26-29, 2000
- PDPTA'2000, The 6th International Conference on Parallel and Distributed Processing Techniques and Applications, June 26 - July 1, 1999, Monte Carlo Resort & Casino, Las Vegas, Nevada, USA
- ISADS'2000, The International Symposium on Advanced Distributed Systems, Marsh 09-10 2000, Guadalajara Jalisco, Mexico.
- PDPTA'2001, The 7th International Conference on Parallel and Distributed Processing Techniques and Applications, June 25-28 2001, Monte Carlo Resort & Casino, Las Vegas, Nevada, USA
- OPODIS'2001, 5th International Conference On Principles Of DIstributed Systems 10-12 December 2001, Manzanillo Mexico.
- ISADS'2002, The International Symposium on Advanced Distributed Systems, November 11 - 15, 2002, Guadalajara Jalisco, Mexico.
- OPODIS'2002, 6th International Conference On Principles Of DIstributed Systems December 11-13, 2002, Reims, France.
- IRMA'2002, 2002 INFORMATION RESOURCES MANAGEMENT ASSOCIATION

INTERNATIONAL CONFERENCE May 19-22, 2002, Renaissance Madison Hotel, Seattle, WA, USA

- 10th IEEE WETICE/ KMN workshop Cambridge (USA), 20 22 Juin 2001.
- IEEE International Workshop on Knowledge Media Networking (KMN'2002), Kyoto (Japan), 10-12 July 2002.
- Member of the Editorial Review Board of JITTA Information Systems Journal (www.jitta.org).

Co-chair of the following international conference tracks:

- (with R. Jacinto Montes, CINVESTAV GDL, Mexico) the Special Session on Coordination in Parallel and Distributed Applications and Activities at PDPTA'99.
- (with Farhad Arbab, CWI Amsterdam, Netherlands) the Special Session on Coordination Models, Languages, Systems and Applications at PDPTA'2000.
- (with Farhad Arbab, CWI Amsterdam, Netherlands and Ronaldo Menezes, Florida Institute of Technology, Melbourne, USA) the Special Session on Coordination Models, Languages, Systems and Applications at PDPTA'2001.
- (with Michel Diaz and Thierry Villemur, LAAS-CNRS Toulouse France) the Special Session on Special Session on Collaboration in Multimedia Networked Applications and GroupWare at the Workshop On Multimedia And Telecommunications within the 26th Euromicro Conference , September 5th-7th 2000, Maastricht, the Netherlands

Expertise Activities, Memberships, Responsibilities

- Grant proposal reviewer for the French funding organization for software technologies (RNTL : "Réseau National des technologies Logicielles"): 2001,2002
- Grant proposal reviewer for the French funding organization for international collaboration with Southern America (ECOS Sud): 2001.
- Elected Member of the specialists commission section 61 (recruitment of associate professors in Computer Systems) of "Université Paul Sabatier Toulouse 3", 2000,2001
- Nominated Member of the specialists commission section 27 (recruitment of associate professors in Computer Science) of "Institut National des Sciences Appliquées de Toulouse", since 2001
- Nominated candidate for citation in the Who Is Who in 2002.
- Member of IEEE, member of the GDR/PRS/SAR national research group and, ASF the French chapter of the ACM-SIGOPS.
- Head of the research team "Component and Services for Collaboration" (CSC) within OLC group (<http://www.laas.fr/OLC/theme3.html>)
- Coordinator of the research project "Collaborative Engineering" within OLC group (<http://www.laas.fr/OLC/projet5.html>)

Other professional activities

- External examiner for PhD thesis of Y. El Tawkili (Université de Toulouse I, 2002)
- External examiner for PhD thesis of S. Salva (Université de Reims, 2001),
- External examiner for PhD thesis of R. Ben Amara (Université de Paris CNAM, 2000)
- External examiner for PhD theses of I. Traore (Université de Toulouse III, 1999)
- External examiner for Engineering thesis of M. Eljed (INSAT, Jan 2002), O. Jenhani (INSAT, Jan 2002), B. Bastier (CNAM, Déc 2001) , E. Roblet (INT Jun 1999), R. Lagasse (CNAM, Feb 2000), F. Gouezec (ENSEEIH, Juin 1998) M. Sidhom (ENSICA, Sept 1996), Ch. Antoine (ENSEEIH, June 1994), S. Lejay (ENSEEIH, June 1993), N. Saadi (ENSEEIH, June 1992), M. Buttigieg (CNAM June 1991).
- **Visiting professor at:**
 - INSA (National Institute for Applied Science) Toulouse (France),
 - Department of Computer Science and Electrical Engineering,
 - Department of Mathematics and Modeling Engineering
 - ENSICA (National High School for Aeronautic Systems) Toulouse (France),
 - UPS (Paul Sabatier University, Toulouse III) Toulouse (France),
 - IUT (University Institute of Technology) / Department of Computer Science and Applied Mathematics
 - University of Sfax (Tunisia) :
 - FSEGS (Business School) / Department of Computer Science
 - ENIS (Engineering School) / Department of Computer Science and Applied Mathematics
 - University of Guadalajara and CINVESTAV (Mexico) 1998 / Winter School
- **Referee for (not complete):**
 - Colloque Francophone sur l'Ingénierie des Protocoles : CFIP'91, CFIP'93
 - International Conference on Formal Description Techniques : FORTE'92, FORTE'93, FORTE'94, FORTE'95, FORTE'96
 - International conference on Petri Nets : Petri Nets'92, Petri Nets'95
 - IFIP international Symposium on Protocol Specification, Testing and Verification PSTV'93, PSTV'94, PSTV'95
 - Singapore International Conference on Networks SICON'97
 - IMACS Multiconference on Computational Engineering in Systems Applications CESA'96
 - IEEE International Symposium on Fault-Tolerant Computing FTCS26

Conference Presentations

- "A multi-modal coordination service model for cooperative distributed systems engineering" at the 2002 IEEE International Conference on Systems Man and Cybernetics (SMC'02), Hammamet (Tunisia), October 2002

- "A design framework for collaborative authoring environments applied to web using Sedit" at the 2002 IEEE International Conference on Systems Man and Cybernetics (SMC'02), Hammamet (Tunisia), October 2002
- "Cooperative systems for information sharing and exchange" at the IEEE 10th International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE'2001), Cambridge (USA), June 2001
- "Sharing engineering information and knowledge. Contributions to PIPEFA's platform" at the International NAISO Congress on Information Science Innovations (ISI'2001), Dubai (EAU), March 2001
- "Formal design and development of a CORBA-based application for cooperative HTML group editing support" at the International Conference on Artificial and Computational Intelligence for Decision, Control and Automation in Engineering and Industrial Applications (ACIDCA'2000), Monastir (Tunisia), March 2000
- "A cooperation service for CORBA objects. From the model to the applications" at the 5th International Euro-Par Conference (Euro-Par'99), Toulouse (France), August/September 1999
- "Design and implementation of coordination protocols for distributed cooperating objects. A general graph-based technique applied to CORBA" at IFIP Third International Conference on Formal Methods for Open Object-Based Distributed Systems (FMOODS), Florence (Italy), February 1999
- "The agent graph coordination approach for the design of distributed cooperative systems" at the international conference of Computer Supported Cooperative Work in Design 99 (CSCWD'99), Compiègne (France), September/October 1999.
- "The diamond-approach for agent graph transformation" at the AAAI 1999 Fall Symposium Series/ Modal and Temporal Logics Based Planning for Open Networked Multimedia Systems symp., North Falmouth, Massachusetts (USA).
- "A cooperation service for distributed cooperative applications" at the 12th international Symposium, DISC'98, Andros, Greece, September 1998.
- "Graph-based coordination of cooperative agents" at the Workshop "Trends in Distributed Systems" (TreDS'96), Aachen (Germany), October 1996,
- "Quantified reduced views of state graphs using Markovian and timed observational equivalence" at the 15th International Symposium on Protocol Specification, Testing and Verification (PSTV'95), Warsaw (Poland), June 1995
- "The refusal graph: a tradeoff between verification and test" Invited presentation at the 6th International IFIP Workshop on Protocol Test Systems (IWPTS VI), Pau (France), September 1993
- "Verifying communication protocols via testing-projection" at the 3rd International Conference on Algebraic Methodology and Software Technology, Enschede (Netherlands), June 1993
- "A formal assessment of synchronous testability for communicating systems" at the 13th International Conference on Distributed Computing Systems (ICDCS'93), Pittsburgh (USA), May 1993
- "Testability of a system through an environment" at the 4th International Joint Conference CAAP/FASE TAPSOFT'93, Orsay (France) April 1993,
- "Characterizing and ordering errors detected by conformance testing" at the 5th

International Workshop on Protocol Test Systems (IWPTS'92), Montreal (Canada)
September 1992

Invited Lectures

- "Software Architecture for Networked Collaborative Software", Ecole Polytechnique de Tunis (Tunisia), April 2001.
- "Coordination Models for Networked Collaborative Software", Faculté des Sciences Economiques et de Gestion de Sfax (Tunisia), April 2000.
- "Component technologies for Distributed Internet-based applications", Ecole Nationale Supérieure des Ingénieurs de Sfax (Tunisia), April 1999.
- "Graph-based Coordination Models for Collaborative Activities", ITESO Guadalajara (Mexico) November 1998.
- "Formal description of communicating Systems", CINVETSAV Guadalajara (Mexico) November 1998.
- "Refusal Graphs for testability analysis through environment", EDF/DER Les Renardières (France) December 1991.
- "Conformance testing through an environment" EDF/DER Les Renardières (France) September 1990,

Supervision of PhD students

- Karim Guennoun (2002-....) : Dynamic Architecture Management if component-oriented software. PhD Paul Sabatier University (UPS, University of Toulouse II).
- Francisco Moo Mena (2002-....): integration of component-oriented collaborative networked applications.
- Saul Pomares (1998-2002) Distributed Group Coordination Protocols. PhD INP Toulouse
- Martin Molina (1999-2003) Distributed Activities Coordination Models and tools. PhD INP Toulouse
- Laura Rodriguez (partially) (1999-2003) Coopeative Group Management Models. PhD INP Toulouse
- Olga Nabuco (partially from Jan 2000 to June 2001). Knowledge Management in Cooperative Activities. PhD Univ Campinas Brasil.

Supervision of final year projects (BS (PFE) and MS (DEA))

- Mehdi Eljed MS UPS (June 2002) Coordination Environments for Collaborative Authoring.
- Olfa Jenhani MS UPS (June 2002) Session Management for collaborative distributed activities.
- Béatrice Bastier Cambou (2000-2001). Responsibility Management for collaborative distributed activities.
- Adil Hbabi MS UPS (June 2001) Design and implementation of Coordination protocols for distributed cooperative objects.
- Etienne Roblet (June 1999) BS INT (Engineering High School), and MS UPS (June 2000). Coordination Environments for Shared Workspaces.

- Martin Molina MS INPT (June 1999). Workflow Models for coordination processes description.
- Frédéric Gouezéc (June 1998), BS ENSEEIHT (Engineering High School) and MS (Sep 1998). Design and implementation of Coordination protocols for distributed cooperative objects.
- Noureddine Errafay (June 1997), BS ENSEEIHT. Modeling and simulation of production and exchange of structured documents.
- Mounir Sidhom (June 1996), BS ENSICA (Engineering High School). Design and implementation of a user-interface for a cooperative text editor.
- Stéphane Lejay, (June 1997), BS ENSEEIHT: Systems Testability Analysis.
- Slimane Essaoudi (Sep 1993), BS INSA (Engineering High School): Verification and test of communicating systems in the framework of the design of an ATM using formal description techniques
- Nizar Saadi (June 1992), BS ENSEEIHT: Computer-Aided Design of conformance tests for FIP, the industrial field bus protocol.
- Marc Buttigieg (June 1991), BS CNAM (Engineering High School): The protocol Flux-Information-Process.
- Corine Hublet (June 1990), BS Université N.D. de la Paix de Namur, Belgium: On a double specification Petri-Nets/Lotos of FIP.

Teaching activities

- Graduate (MS & BS): Collaborative Software Architecture. Design and implementation using Distributed Components (CORBA). INSA (High Engineering School, Toulouse, France). Final year and MS in Telecom and Networks specialty. Lecture (10), Labs (18). 1999-2000, 2000-2001, 2001-2002.
- Graduate (MS & BS): Coordination Models in Distributed Systems. ENSICA (High Engineering School, Toulouse, France). Final year and MS in Telecom and Networks specialty. Lecture (10). 2000-2001 2001-2002
- Graduate (MS): Coordination Models in Distributed Systems ENIS (High Engineering School, Sfax, Tunisia). MS of computer science. Lecture (18h). 2001-2002
- Graduate (MS & BS): Process Algebra for modeling of communicating systems. INSA Toulouse. Final year and MS in Telecom and Networks specialty. Lecture (07,5) Labs (18), 1999-2000, 2000-2001, 2001-2002
- Graduate (BS): Object-oriented design and programming in C++. INSA Toulouse. Final year of Mathematics Modeling specialty. Lecture (8), Labs (12). 1999-2000, 2000-2001, 2001-2002.
- Graduate (MS): Foundation of component-oriented software technologies. FSEGS (University of South Tunisia Sfax/ Tunisia). MS of computer science. Lecture (24h). 2000-2001, 2001-2002.
- Undergraduate SFO: Computer Architecture and Functioning. INSA Toulouse. Lecture (18). 1991, 1992.
- Undergraduate AP: Programming Concepts. UPS Toulouse. Labs (20h). 1994, 1995, 1996
- Undergraduate RdP: Petri Nets. INSA Toulouse. Labs (24h). 1994, 1995
- Undergraduate ROPC: Modeling and Verification of Computer Networks and Communication Protocols. INSA Toulouse. Labs (24h). 1994, 1995, 1996, 1997

Selected Recent publications:

Book Chapters (author)

Modeling of coordination for distributed collaborative activities:

K.DRIRA, M.DIAZ

Graph-grammar based coordination in inter-corporate computer supported collaborative activities.

Annual Review of Scalable Computing, Series on Scalable Computing. Vol.2, Ed. YC.Kwong, Singapore University Press, N°ISBN 981-02-4413-4, 2000, Chapter 1, pp.1-27

Implementing coordination for distributed collaborative activities (state of the art):

K.DRIRA, J.M.MOLINA-ESPINOSA, O.NABUCO, L.M.RODRIGUEZ PERALTA, T.VILLEMUR

Product data and workflow management.

Cooperative environments for distributed systems engineering, Lecture Notes in Computer Science 2236, Springer, N°ISBN 3-540-43083-0, 2001, pp.107-151

Books and proceedings (editor)

Communication and Coordination technologies for distributed collaborative system engineering (state of the art):

K.DRIRA, A.MARTELLI, T.VILLEMUR (editors)

Cooperative environments for distributed systems engineering.

Lecture Notes in Computer Science 2236, Springer, 279 p., N°ISBN 3-540-43083-0, 2001.
<http://images.amazon.com/images/P/3540430830.01.LZZZZZZZ.jpg>
<http://www.springer.de/books/covers-648h/3540430830.jpg>

Coordination technologies for distributed systems (research articles):

K. DRIRA and R. JACINTO MONTES (associate editors)

Volume I of Proceedings of Special session on Coordination in Parallel and Distributed Applications and Activities.

5th. Int. Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA), Las Vegas, USA, 28 June/01 July 1999.

F. ARBAB and K. DRIRA (associate editors)

Volume II of Proceedings of Special session on Coordination in Parallel and Distributed Applications and Activities.

6th. Int. Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA), Las Vegas, USA, 26-29 June 2000.

F. ARBAB and K. DRIRA and R. MENEZES (associate editors)

Volume II of Proceedings of Special session on Coordination in Component-Oriented Systems. Architecture, Models, Languages, and Applications.

7th. Int. Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA), Las Vegas, USA, 25-28 June 2001.

Scientific Journals

Dynamic Architecture management:

K.DRIRA

A coordination middleware for collaborative component-oriented distributed applications

Netnomics Journal, N°2, pp.85-99, 2000

Design methodologies for collaborative networked software:

K.DRIRA, T.VILLEMUR, V.BAUDIN, M.DIAZ

A design methodology applied to distance learning support software

Interactive Learning Environments, Vol.9, N°1, pp.51-78, April 2001

Communicating systems testability assessment using formal descriptions:

K.DRIRA, P.AZEMA, P.DE SAQUI SANNES

Testability analysis in communicating systems

Computer Networks, Vol.36, N°5-6, pp.671-693, August 2001

Modeling of coordination for distributed multimedia applications:

P.GRADIT, K.DRIRA, F.VERNADAT

An integrated approach to coordination description in distributed multimedia applications

Integrated Computer-Aided Engineering, Vol.8, N°4, pp.311-324, 2001

Design and implementation of distributed GroupWare for HTML editing:

E.ROBLET, K.DRIRA, M.DIAZ

Formal design and development of a CORBA-based application for cooperative HTML group editing support

Journal of Systems and Software, Vol.60, N°2, pp.113-127, 2002

Papers in international conferences

Specifying coordination for multi-session, multi-group collaborative activities:

J.M.MOLINA-ESPINOSA , K.DRIRA

A multi-modal coordination service model for cooperative distributed systems engineering

2002 IEEE International Conference on Systems Man and Cybernetics (SMC'02), Hammamet (Tunisia), 6-9 October 2002, 6p.

Responsibilities and Session Management in multi-tools multi-group collaborative activities:

J.M.MOLINA-ESPINOSA , K.DRIRA , T.VILLEMUR

The responsibility management system for collaborative meetings scheduling in the distributed system engineering project

IEEE International Workshop on Knowledge Media Networking (KMN'2002), Kyoto (Japan), 10-12 Juillet 2002, 6p.

J.M.MOLINA-ESPINOSA , K.DRIRA , L.M.RODRIGUEZ PERALTA

An event driven session management system for collaborative distributed systems engineering

9th European Concurrent Engineering Conference (ECEC'2002), Modena (Italie), 15-17 Avril 2002, pp.148-152

Multilevel design framework for collaborative authoring:

M.ELJED , K.DRIRA

A design framework for collaborative authoring environments applied to web using SEdit

IEEE International Conference on Systems Man and Cybernetics (SMC'02), Hammamet (Tunisie), 6-9 Octobre 2002, 6p.

Popularization:

Internet technolgies:

K.DRIRA

Internet for entreprises : stakes and technologies (in French)

La Revue de l'Entreprise, N°33, pp.70-72, Jan-Feb 1998

K. DRIRA

Internet Network and infrastructures. Architecture, requirements and orientations (in French)

La Revue de l'Entreprise, N°34, V.6 pp. 64, March-April 1998.

E-Activities:

K.DRIRA

Synchronous E-Learning projects (in arabic)

Educational program at the National Radio of Sfax (Tunisia). 1 hour April 26 2002.

List of Recent publications (last 4 years)

The complete updated list of publications (about 100) is available :

- under: www.laas.fr/~khalil through the link publications, or directly through the URL:

- http://dbserver.laas.fr/pls/LAAS/publis.rech_auteur?langage=FR&clef=1682

1. K. Drira, T. Villemur, V. Baudin, and M. Diaz. A design methodology applied to distance learning support software . *Interactive Learning Environments Journal*, 19(1):51-78.
2. K. Drira, P. Azéma, and P. De Saqui-Sannes. Testability Analysis in Communicating Systems. *Computer Networks*, 36:671-693, 2001.
3. K. Drira. A coordination middleware for collaborative component-oriented distributed applications. *Special Issue of NETNOMICS journal on information and communication middleware*, 2(2000):85-99, 2000.
4. K. Drira. Internet pour les entreprises : enjeux et technologies. *La Revue de l'Entreprise*, 6(33):70-72, Janvier-Fevrier 1998.

5. K. Drira. Le réseau Internet et les infrastructures informatiques. Architecture, besoins et orientations. *La Revue de l'Entreprise*, 6(34):64, Mars-Avril 1998.
6. L.M. Rodriguez Peralta, T. Villemur, and K. Drira. An xml on-line session model based on graphs for synchronous cooperative groups. In *2001 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2001), Las Vegas (USA), 25-28 Juin 2001*, pp.1257-1263.
7. K. Drira, M. Diaz, T. Villemur, M. Jmaiel, A.E.M. Ben Hamadou, and A. Hadj Kacem. Cooperative systems for information sharing and exchange. In *IEEE 10th International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises(WETICE'2001), Cambridge (USA), 20-22 Juin 2001*.
8. O. Nabuco, K. Drira, and E. Dantas. A layered design model for knowledge and information sharing cooperative systems. In *IEEE 10th International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises(WETICE'2001), Cambridge (USA), 20-22 Juin 2001*.
9. V. Baudin, K. Drira, T. Villemur, and S.TAZI. Une approche synchrone pour une télé-expertise distribuée. In *Ieres Journées Francophones des Modèles Formels de l'Interaction (MFI'01), Toulouse (France), 21-23 Mai 2001, Vol.III*, pp.363-377.
10. J.M. Molina-Espinosa, O. Nabuco, and K. Drira. A uml model for session management in collaborative design for space activities. In *8th European Concurrent Engineering Conference (ECEC'2001), Valence (Espagne), 18-20 Avril 2001*, pp.170-174.
11. O. Nabuco, K. Drira, and J.M. Rosario. Sharing engineering information and knowledge. contributions to pipefa's platform. In *International NAISO Congress on Information Science Innovations (ISI'2001), Dubai (EAU), 17-21 Mars 2001*, pp.431-437.
12. L.M. Rodriguez-Peralta, T. Villemur, and K. Drira. An xml-based session model for synchronous cooperative groups. In *Workshop on Software Architectures for Cooperative Systems (CSCW'2000), Philadelphie (USA), 1er Décembre2000*, 4p.
13. K. Drira, T. Villemur, V. Baudin, and M. Diaz. A multi-paradigm layered architecture for synchronous distance learning. In *26th EUROMICRO Conference. Workshop on Multimedia and Telecommunications, Maastricht (Pays-Bas), 5-7 Septembre 2000, Vol.2*, pages 158-165.
14. T. Villemur, K. Drira, and M. Diaz. Design of a group membership service on top of a distributed java actor platform. In *IEEE FTDCS'99, Afrique du Sud, Decembre 1999*, 1999.
15. K. Drira. Concurrent Communicating Agents for communication protocols modelling. In *EISD'98, Guadalajara/Mexico, 24-28 Dec, 1998*. tutorial.
16. K. Drira. Coordinated Collaborative Agents for distributed collaborative applications design and implementation. In *EISD'98, Guadalajara/Mexico, 24-28 Dec, 1998*. tutorial.
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